

IP68

HIGH PERFORMANCE

Outdoor Waterproof Box
for 5G Technology!

WG series

WGPC series



IP68 High performance at 24-hours/1m-depth immersion



*Do not use underwater/underground.



With a silicone waterproof gasket, and supported by multiple enclosing screws from the rear side, it allows the enclosure to maintain a stable high waterproofing capability.

Weather-resistant ASA material



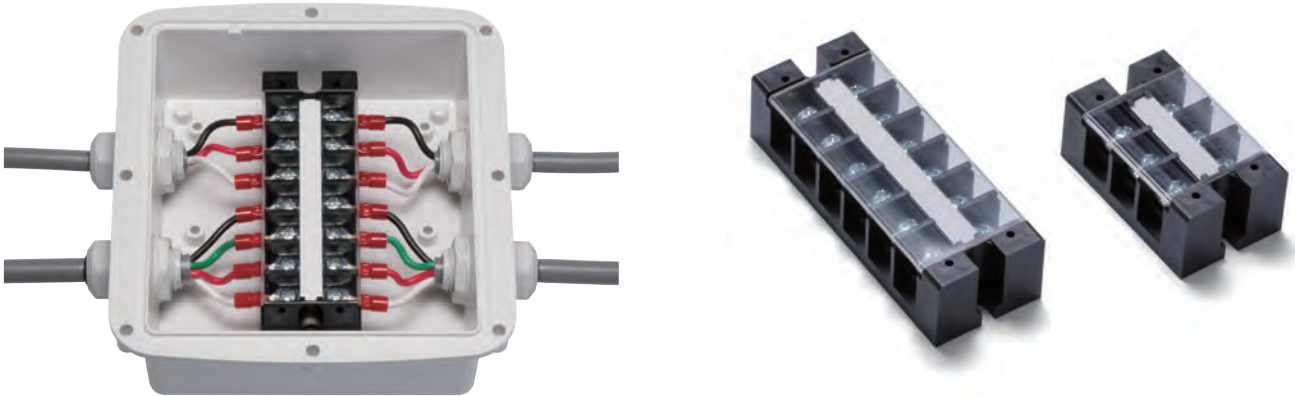
ASA material is resistant to deterioration and discoloration due to ultraviolet rays. Perfect for outdoor communication or network devices.

Captive screws for easy maintenance



There is no risk of screws dropping out and lost during maintenance. Captive screw is able to lock into a pre-drilled hole to provide a secure hold.

Optional terminal blocks compatible



Optional terminal blocks, WTB series can be installed onto the existing bosses inside the WG • WGPC and WGV series box without additional processing or customization, hence can also function as a terminal junction box. (See page 115~116 for WTB terminal blocks.)

Easy installation on walls & poles

WALL MOUNTING BRACKET



POLE MOUNTING BRACKET



POLE MOUNTING STRAP



WG series

IP68 WATERPROOF ASA BOX

NEW SIZE

WGPC series

IP68 WATERPROOF PC+ASA BOX

★ ★ NEW



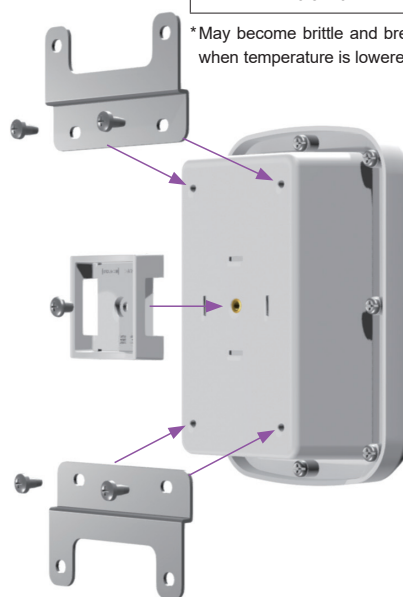
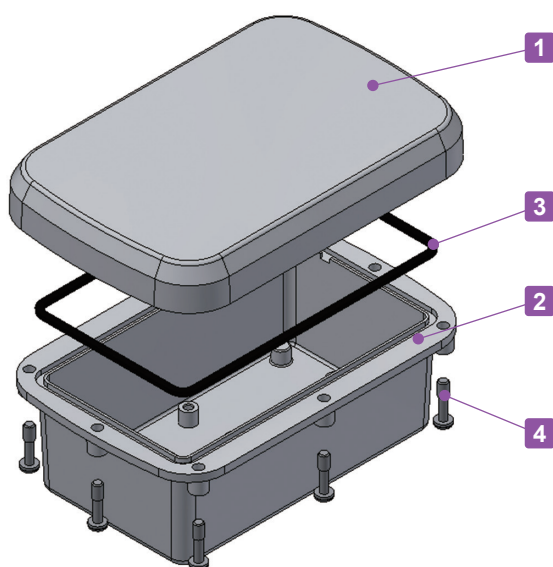
- IP68 high performance plastic box protected from immersion as long as 24 hours at 1m depth.
- ASA material is resistant to deterioration and discoloration from ultraviolet rays. PC/ASA material provides superior heat resistance and flame retardancy. Perfect for use as outdoor communication or network devices.
- Self-tapping captive screws which are able to lock into a pre-drilled hole and provide a secure hold for fastening the cover. Please drive the self-tapping captive screws for cutting a thread into the holes at first so that the cover and body can be secured together properly.



Technical Data

Protection class :
IP68 (24-hours/1m-depth)
Operating temperature :
WG : -30°C ~ +60°C
WGPC : -30°C ~ +75°C
Recommended torque :
0.5 ~ 0.7N · m

*May become brittle and break under impact when temperature is lowered close to -30°C.



There are 5 holes on the backside of the body (4 at each corner, 1 in center). 4 corner holes are for wall mounting bracket, and 1 center hole is for pole mounting bracket.

WG Components

No.	Part name	Pcs	Material / Color
1	Cover	1	ASA UL94HB / Off-white
2	Body	1	ASA UL94HB / Off-white
3	Gasket	1	Silicone / Black
4	Self-tapping captive screw	8 ~ 10	Stainless steel / Unfinished

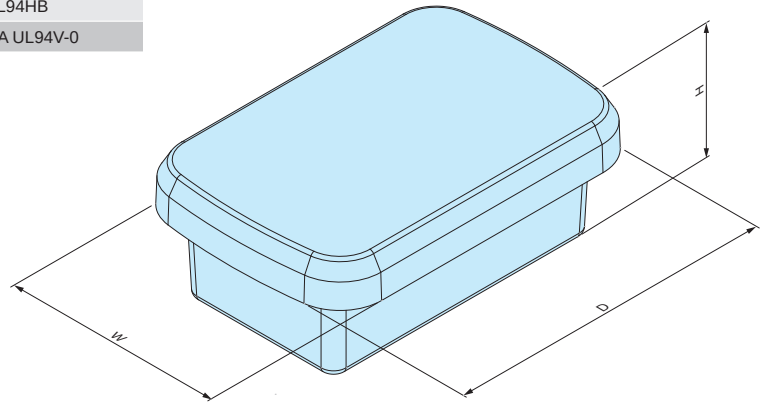
WGPC Components

No.	Part name	Pcs	Material / Color
1	Cover	1	PC/ASA UL94V-0 / Light gray
2	Body	1	PC/ASA UL94V-0 / Light gray
3	Gasket	1	Silicone / Black
4	Self-tapping captive screw	8 ~ 10	Stainless steel / Unfinished

Color

Series	Code	Color	Material
WG	W	Off-White	ASA UL94HB
WGPC	G	Light gray	PC/ASA UL94V-0

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	External dimensions			Weight (g)
	W	D	H	
WG10-15- 6W	100	150	55	169.5
WG10-15- 8W	100	150	75	192
WG15-16- 6W	145	155	55	232
WG15-16- 8W	145	155	80	266.5
WG15-21- 6W	145	210	60	314
WG15-21- 9W	145	210	90	367
WG17-25- 8W	170	250	80	470
WG17-25-11W	170	250	110	534
WG23-25- 8W	225	245	80	570
WG23-25-11W	225	245	110	645
NEW WG25-33- 9W	245	325	90	965
NEW WG25-33-12W	245	325	120	1,073
NEW WG30-33- 9W	300	325	90	1,151
NEW WG30-33-13W	300	325	130	1,285.5
NEW WG28-40-10W	280	400	100	1,332.5
NEW WG28-40-15W	280	400	150	1,529.5

Product no. / Details

Product no.	External dimensions			Weight (g)
	W	D	H	
NEW WGPC10-15- 6G	100	150	55	188.5
NEW WGPC10-15- 8G	100	150	75	213.5
NEW WGPC15-16- 6G	145	155	55	258
NEW WGPC15-16- 8G	145	155	80	296.5
NEW WGPC15-21- 6G	145	210	60	349.5
NEW WGPC15-21- 9G	145	210	90	408.5
NEW WGPC17-25- 8G	170	250	80	523
NEW WGPC17-25-11G	170	250	110	594
NEW WGPC23-25- 8G	225	245	80	634
NEW WGPC23-25-11G	225	245	110	717.5
NEW WGPC25-33- 9G	245	325	90	1,073.5
NEW WGPC25-33-12G	245	325	120	1,193.5
NEW WGPC30-33- 9G	300	325	90	1,280
NEW WGPC30-33-13G	300	325	130	1,430
NEW WGPC28-40-10G	280	400	100	1,482
NEW WGPC28-40-15G	280	400	150	1,701

Accessories (Optional parts)



Wall mounting bracket WGF series
See page 112



Pole mounting bracket WGMB • WPMB • SSK series
See page 113 ~ 114 and 205 ~ 206



Pole mounting strap • belt SNB • PKB series
See page 207 ~ 208



Tapping Standoff TPS series
See page 397



Mounting plate WGP series
See page 111



PCB mounting screw MT4-8T
See page 112



Terminal block WTB series
See page 115



DIN Rail FDR series
See page 97



Protective vent PMF series
See page 197 ~ 198

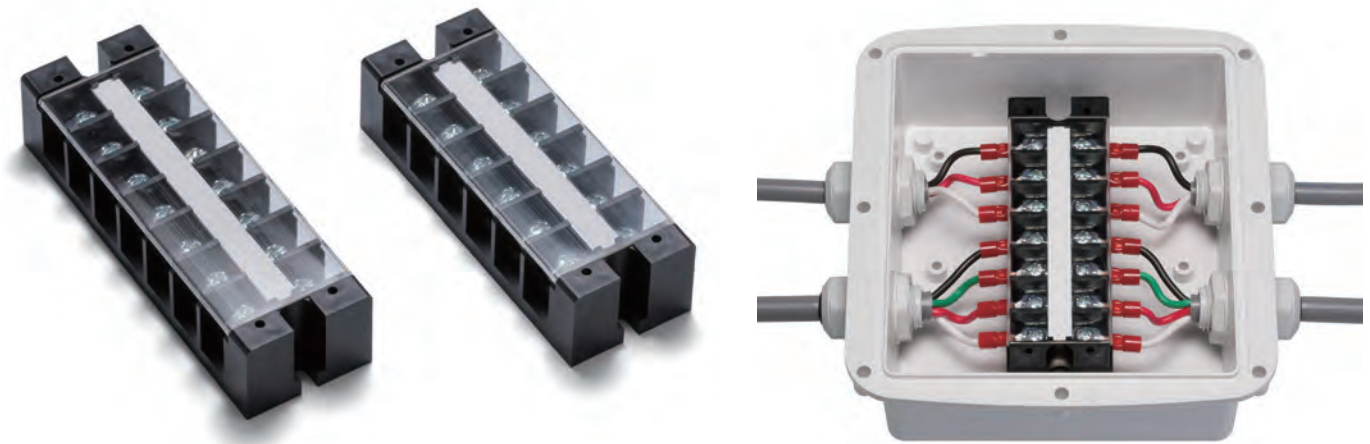


Cable gland
See page 181 ~ 193

WTB series

TERMINAL BLOCK for WG • WGPC • WGV

FW2



- Compatible terminal blocks for WG • WGPC • WGV series.
- Not suitable for WG • WGPC • WGV25-33-□ ~ 28-40-□.

Components

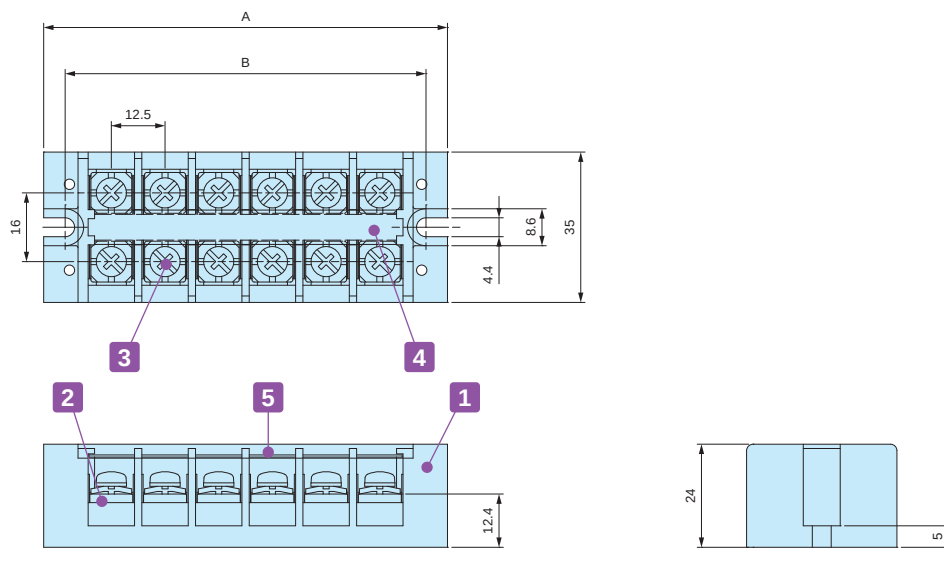
No.	Part name	Pcs	Material	Color or Finish
1	Base	1	PBT UL94V-0	Black
2	Conductive plate	1	Brass	Nickel plated
3	Terminal screw (M4-10)	2 x P	Steel	Trivalent chromate
4	Symbol board	1	PET	White
5	Cover	1	Polycarbonate UL94V-0	Transparent
—	Screw (Bind tapping M4-10)	2	Steel	Trivalent chromate

Specification

- Electrical Rating 600V • 35A
- Insulation Resistance DC500V 1000MΩ ~
- Withstand Voltage AC2500V (Tested for 1 min.)
- Rising Temp. 30°C or less
- Operating Temp. Range -40°C ~ +90°C
- Storage Temp. Range -40°C ~ +90°C

WTB dimensions

- DXF/DWG/PDF drawings available on our website.



Product no. / Details

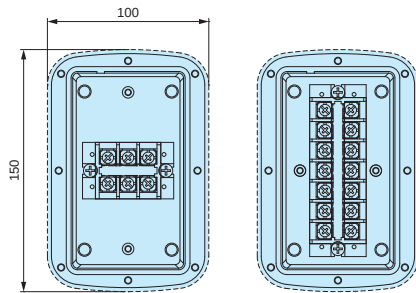
Product no.	P (Number of poles)	A	B	Suitable models
WTB-240- 3P-FB	3	56.5	46.5	WG • WGPC • WGV10-15-□ (W direction)
WTB-240- 6P-FB	6	94.0	84.0	WG • WGPC • WGV15-16-□, WG • WGPC • WGV15-21-□ (W direction)
WTB-240- 7P-FB	7	106.5	96.5	WG • WGPC • WGV10-15-□, WG • WGPC • WGV15-16-□ (D direction) WG • WGPC • WGV17-25-□ (W direction)
WTB-240-10P-FB	10	144.0	134.0	WG • WGPC • WGV15-21-□ (D direction) WG • WGPC • WGV23-25-□ (W direction)
WTB-240-12P-FB	12	169.0	159.0	WG • WGPC • WGV17-25-□, WG • WGPC • WGV23-25-□ (D direction)

WTB mounting layout

WG • WGPC • WGV10-15-□

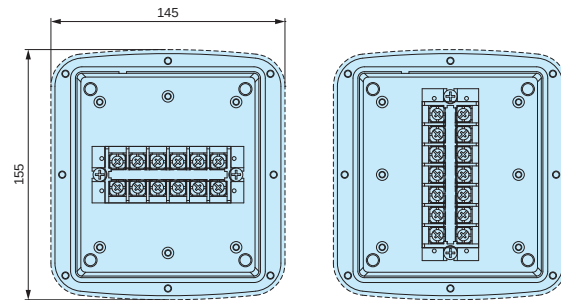
WTB-240-3P

WTB-240-7P

**WG • WGPC • WGV15-16-**□

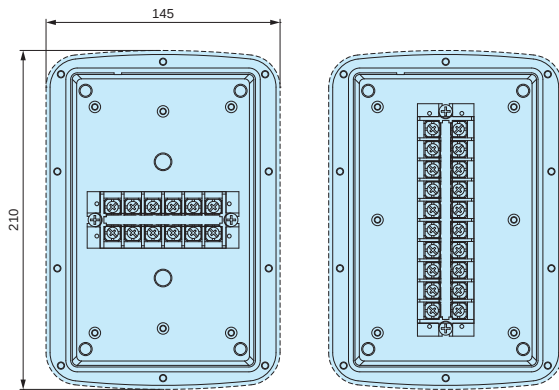
WTB-240-6P

WTB-240-7P

**WG • WGPC • WGV15-21-**□

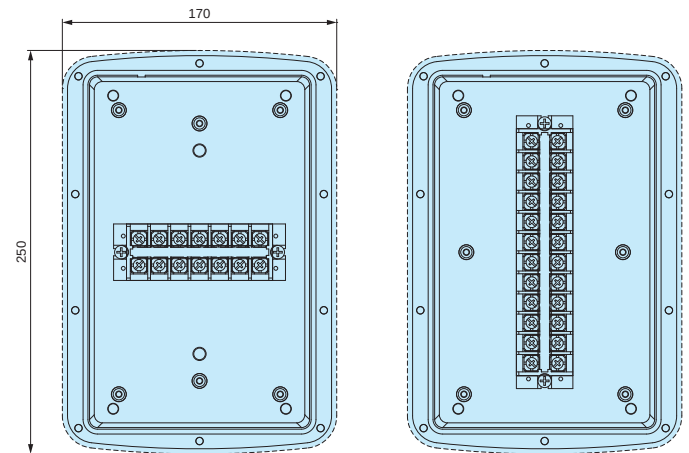
WTB-240-6P

WTB-240-10P

**WG • WGPC • WGV17-25-**□

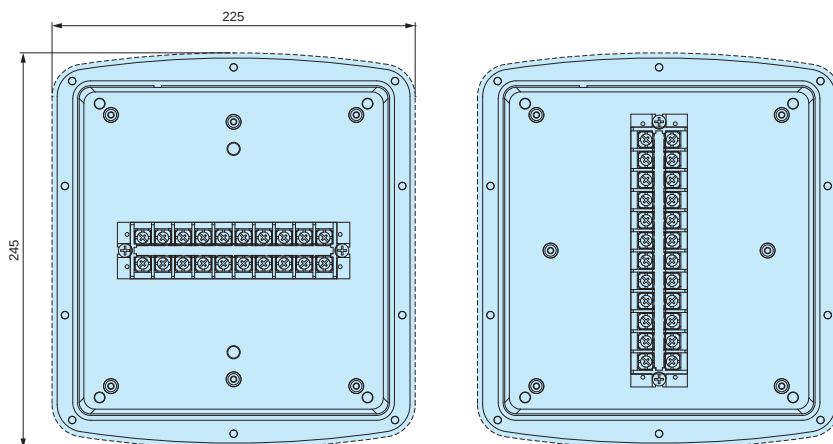
WTB-240-7P

WTB-240-12P

**WG • WGPC • WGV23-25-**□

WTB-240-10P

WTB-240-12P



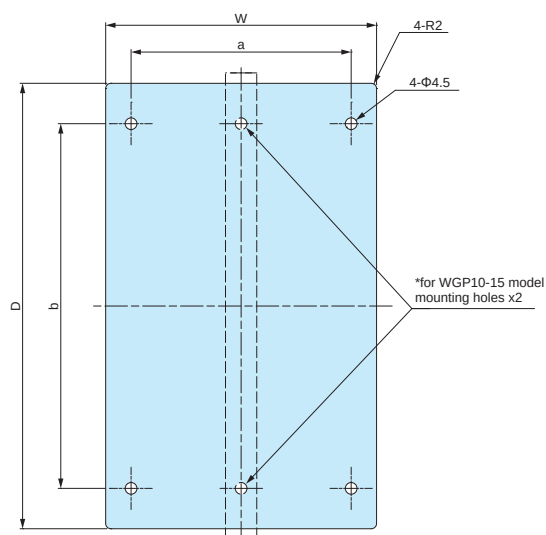
WGP series

MOUNTING PLATE for WG • WGPC • WGV



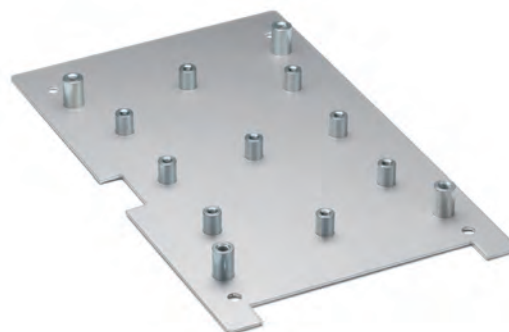
WGP dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



■ Material / Finish : A1100P (t=1.5mm) / Silver anodized

■ Hole milling, clinching spacer customizations are available.
See page Custom-6 and our website for more details.



Product no. / Details

■ Mounting screws included.

Product no.	W	D	a	b	Suitable models	Weight (g)
WGP10-15	60	112	—	97	WG • WGPC • WGV10-15-□	30
WGP15-16	105	117	84.5	90	WG • WGPC • WGV15-16-□	54
WGP15-21	104	171	84.5	140	WG • WGPC • WGV15-21-□	76
WGP17-25	120	200	100	176	WG • WGPC • WGV17-25-□	100
WGP23-25	175	185	152	168	WG • WGPC • WGV23-25-□	133
NEW WGP25-33	178	254	154	230	WG • WGPC • WGV25-33-□	190
NEW WGP30-33	232	254	208	230	WG • WGPC • WGV30-33-□	247.5
NEW WGP28-40	210	322	184	298	WG • WGPC • WGV28-40-□	283

MT4-8T

PCB MOUNTING SCREW



- Self-tapping screws for board mounting on bosses inside WG, WGPC and WGV series enclosures.

Product no. / Details

Product no.	Material	Finish	Pack of
MT4-8T (Bind tapping M4-8)	Steel	Trivalent chromate	20

WGF series

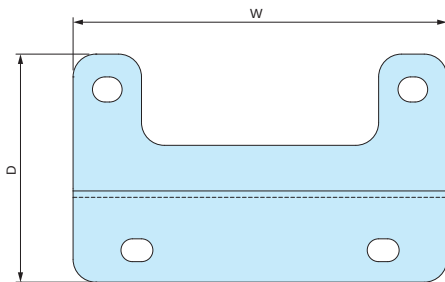
WALL MOUNTING BRACKET for WG • WGPC • WGV



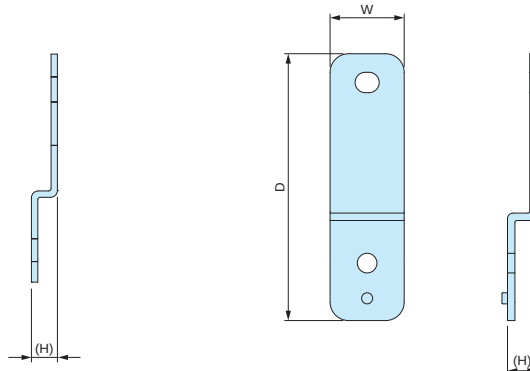
WGF dimensions

- DXF/DWG/PDF/STP drawings available on our website.

WGF-10 ~ WGF-25



WGF-L



Product no. / Details

- Stainless steel mounting screws included.

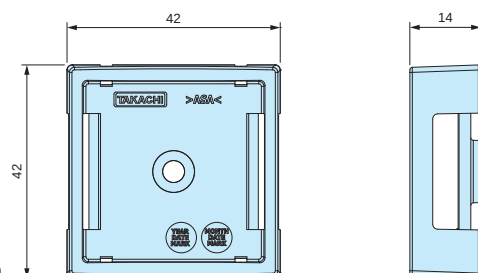
Product no.	W	D	(H)	Suitable models	Material / Finish	Pack of
WGF-10	82	50	(5.8)	WG • WGPC • WGV10-15-□ (W direction)	Stainless steel t=1.5mm / Barrel finish	2
WGF-15	132	50	(5.8)	WG • WGPC • WGV10-15-□ (D direction)		2
				WG • WGPC • WGV15-16-□ (W • D direction)		
				WG • WGPC • WGV15-21-□ (W direction)		
				WG • WGPC • WGV17-25-□ (W direction)		
WGF-23	184	55	(8.0)	WG • WGPC • WGV15-21-□ (D direction)	Stainless steel t=2.0mm / Barrel finish	2
WGF-25	210	55	(8.0)	WG • WGPC • WGV23-25-□ (W direction)		2
				WG • WGPC • WGV17-25-□ (D direction)		
				WG • WGPC • WGV23-25-□ (D direction)		
				WG • WGPC • WGV25-33-□ (W • D direction)		
NEW WGF-L	20	72	(8.0)	WG • WGPC • WGV30-33-□ (W • D direction)	Stainless steel t=2.0mm / Barrel finish	4
				WG • WGPC • WGV28-40-□ (W • D direction)		

WGMB-1W POLE MOUNTING BRACKET for WG • WGPC • WGV



■ DXF/DWG/PDF/STP drawings available on our website.

WGMB dimensions



- Pole mount bracket made from weather resistant ASA material.
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its IP rating.
- WG • WGPC • WGV10-15-□ and 15-16-□ can be installed in both the W or D direction.
- Pole mount is possible with the use of SNB or PKB series mounting belt. (See website)

* Operating temperature : -30°C ~ +60°C

Product no. / Details

■ Mounting stainless steel screw included.

Product no.	Suitable models	Material / Color	Weight (g)	Pack of
WGMB-1W	WG • WGPC • WGV10-15-□ / 1 pc required WG • WGPC • WGV15-16-□ / 1 pc required WG • WGPC • WGV15-21-□ / 2 pcs required	ASA UL94HB / Off-white	9	1

Installation example

Installation (1 pc)

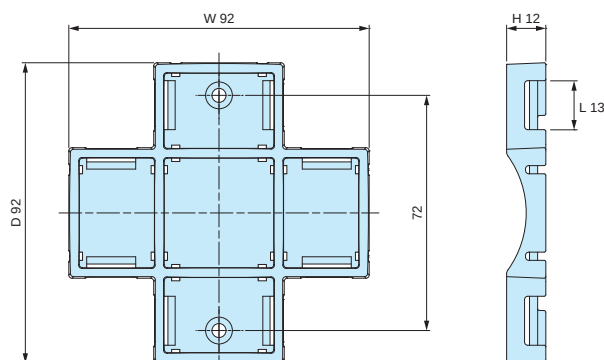
Installation (2 pcs)



WPMB-M4-2G POLE MOUNTING BRACKET

■ DXF/DWG/PDF/STP drawings available on our website.

WPMB-M4-2 dimensions



- Pole mount bracket made from weather resistant ASA material.
- Pole mounting belt can be installed in either W or D direction.
- Pole mount is possible with the use of PKB series mounting belt. (See page 208)
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its protection class.

*Stainless steel screw belt SNB series is not usable on WPMB-M4-2 series.

* Operating temperature : -30°C ~ +60°C

Color

White gray

Product no. / Details

■ Mounting stainless steel screw included.

Product no.	Suitable models	Recommended torque (N • m)	Weight (g)	Pack of
WPMB-M4-2G	WG • WGPC • WGV15-21-□	0.45 ~ 0.5	24	1

■ Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.



- Hinged structure allows easy access for maintenance or replacement of components.
- 2, 3 and 4 way types are available.
- A screw type wiring connection is adopted; allowing for easy installation and removal.
- 4P pole models and no terminal models are available.

Technical Data

Protection class : Equivalent to IP68 (24-hours / 1m-depth)
 Operating temperature : -25°C ~ +60°C
 Recommended cover tightening torque : 0.5 ~ 0.6N • m



How to connect



Components

- PA66 = Polyamide 66
- PA6 = Polyamide 6

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66	Black
2	Hinged cover	1	PA66	Black
3	Gasket	1	Silicone	Yellow
4	Lock nut	2 ~ 4	PA6	Black
5	Sealing insert	2 ~ 4	Silicone	Green
6	Terminal block	1	PA6 / Brass	Nickel plated
7	Self-tapping screw	3	Stainless steel	Black / plated

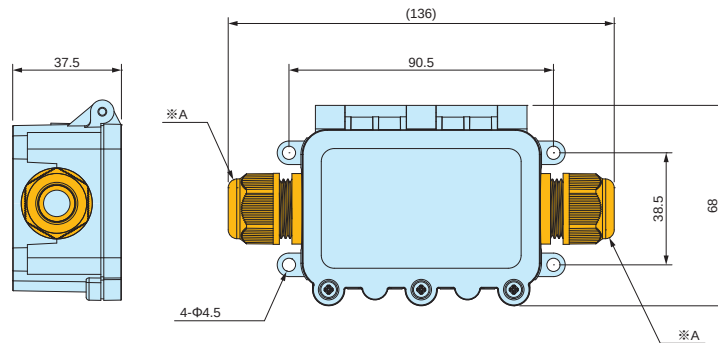
Product no. / Details

Product no.	W	D	H	Number of Poles	Branches	Cable range	
JW-2W-N	136	68	37.5	None	2	M20 : $\Phi 5 \sim \Phi 9$	
JW-2W-4P	136	68	37.5	4P	2	M20 : $\Phi 5 \sim \Phi 9$	
JW-3W-N	136	81	37.5	None	3	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$
JW-3W-4P	136	81	37.5	4P	3	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$
JW-4W-N	136	97	37.5	None	4	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$
JW-4W-4P	136	97	37.5	4P	4	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$

JW dimensions

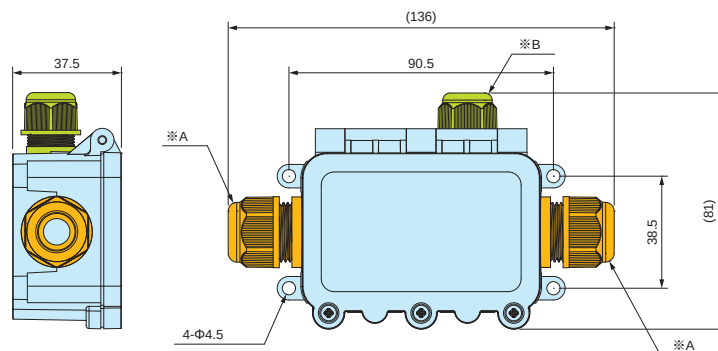
■ DXF/DWG/PDF drawings available on our website.

JW-2W-N • JW-2W-4P



*A : M20 Cable gland

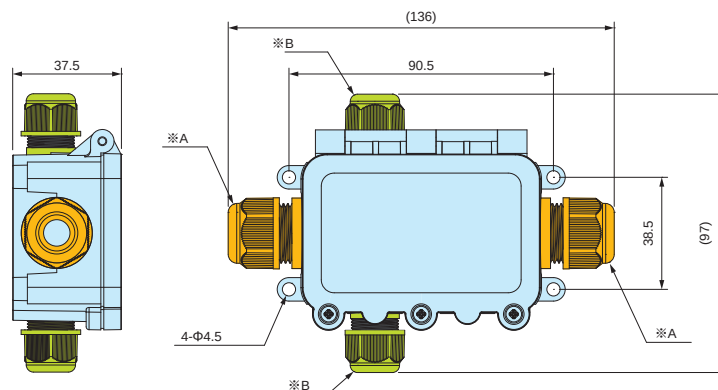
JW-3W-N • JW-3W-4P



*A : M20 Cable gland

*B : M16 Cable gland

JW-4W-N • JW-4W-4P



*A : M20 Cable gland

*B : M16 Cable gland

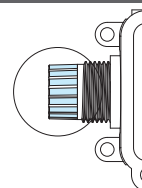
Accessories (Optional parts)

RBM series

SEALING INSERT for JW



- Recommended to be used to change to a compatible cable diameter.
- Do not bend the blue part (shown in the figure) outwards with excessive force or it may cause damage when replacing sealing insert.
- Pay attention to the suitable cable gland and cable range when selecting.

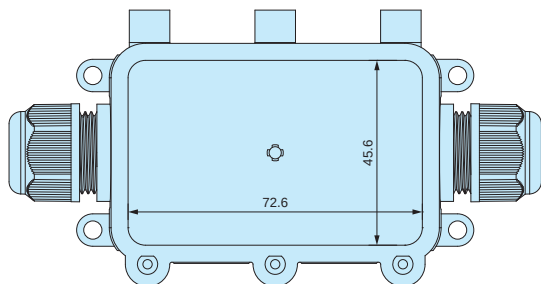


Product no. / Details

Product no.	Appearance	Suitable cable gland	Cable range	Material	Pack of
RBM20-12 (Dedicated for M20)		M20	$\Phi 9 \sim \Phi 12$	Silicone	10
RBM16-7 (Dedicated for M16)		M16	$\Phi 3.5 \sim \Phi 7$	Silicone	10

Terminal Block Diagram

JW-2W-N (No terminal model)



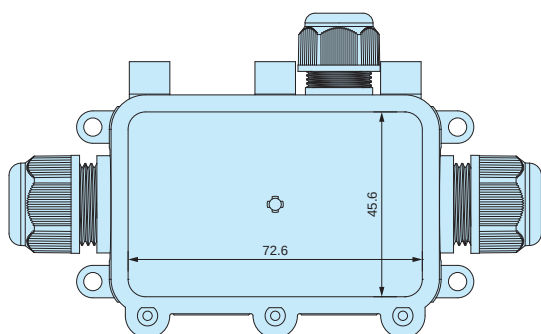
- No terminal model.
- Use for protecting the connected part.
- Protrusion on the center.

Installation example



- Use when utilizing other terminals or connecting without terminal.

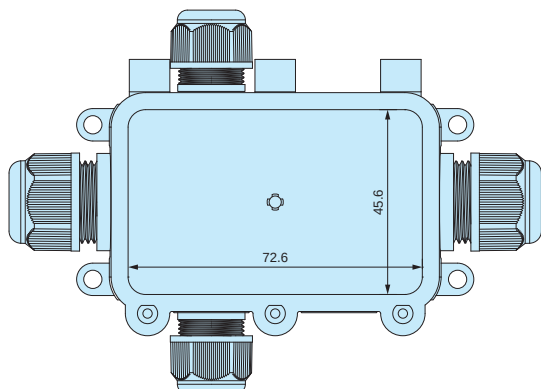
JW-3W-N (No terminal model)



Installation example



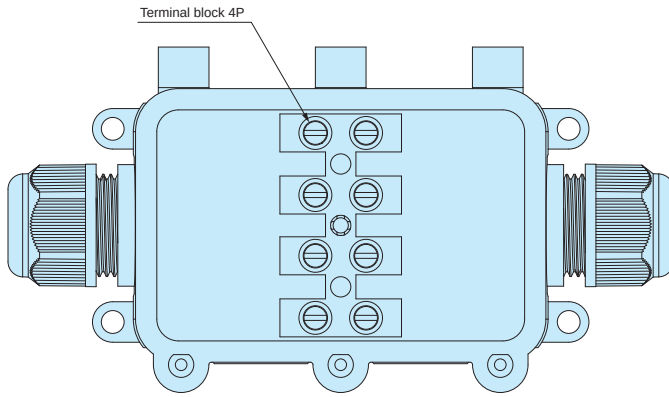
JW-4W-N (No terminal model)



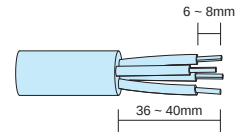
Installation example



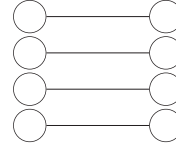
JW-2W-4P



- Wire connection dimensions below are for reference only; check under actual usage conditions.



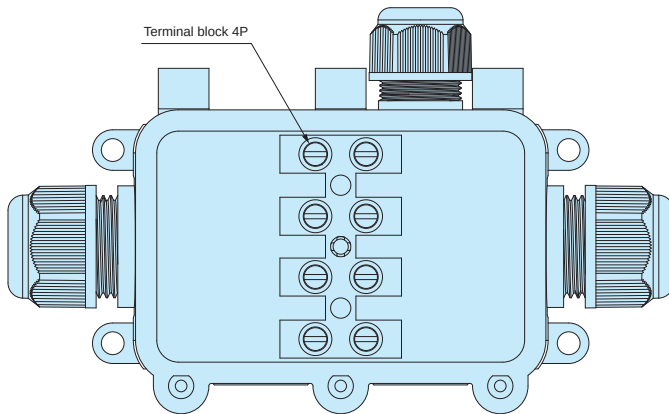
Wire Connection Diagram



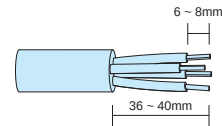
4P terminal block

Rated voltage / current	AC450V / 40A
Applicable wire	Max 1.0 ~ 5.5 mm ² (stranded wire)
Terminal screw	M3.5 minus head

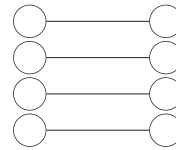
JW-3W-4P



- Wire connection dimensions below are for reference only; check under actual usage conditions.



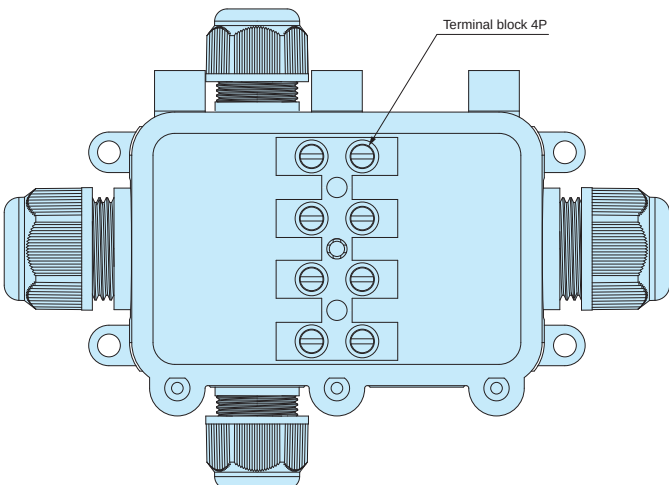
Wire Connection Diagram



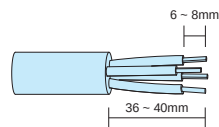
4P terminal block

Rated voltage / current	AC450V / 40A
Applicable wire	Max 1.0 ~ 5.5 mm ² (stranded wire)
Terminal screw	M3.5 minus head

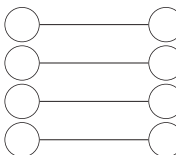
JW-4W-4P



- Wire connection dimensions below are for reference only; check under actual usage conditions.

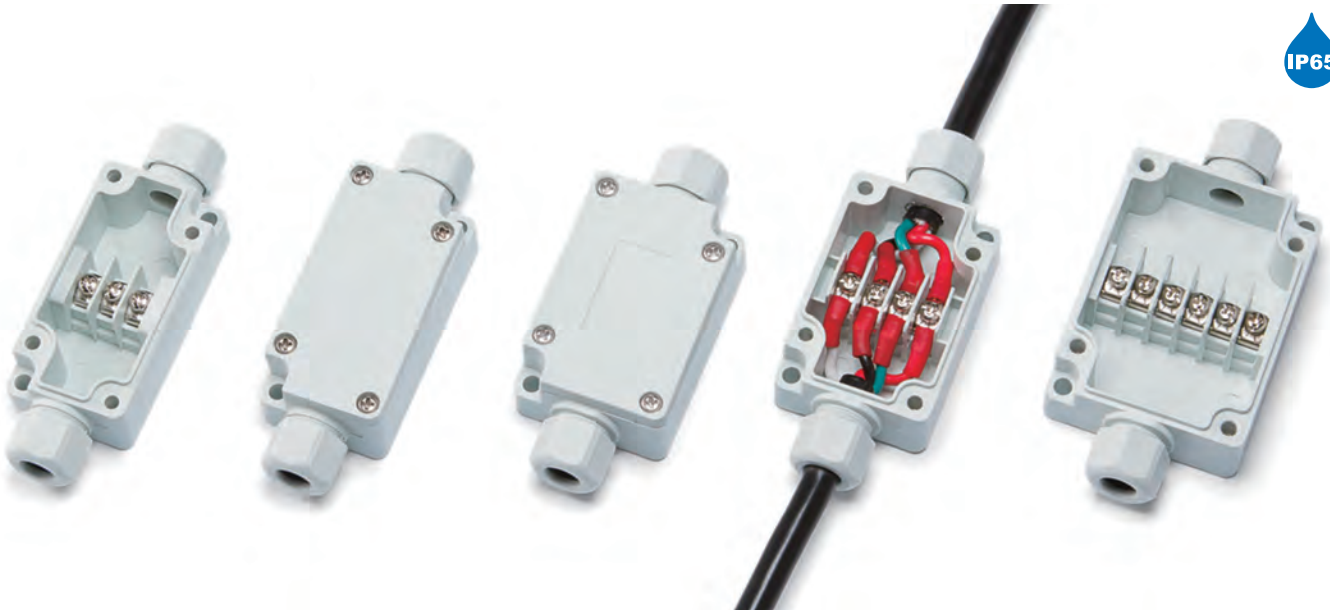


Wire Connection Diagram



4P terminal block

Rated voltage / current	AC450V / 40A
Applicable wire	Max 1.0 ~ 5.5 mm ² (stranded wire)
Terminal screw	M3.5 minus head

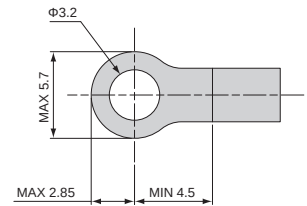


- Integrated junction box consisting of cable glands and a terminal block.
- Suitable for industrial facilities, power cable joints, relay between motors and/or sensors.
- IP65 protection class with high oil resistant PBT material.
- 3, 4, and 6 pole types are available.
- $\Phi 5.0$ and $\Phi 7.4$ rubber cable bushes (2 pcs each) are included.

Technical Data

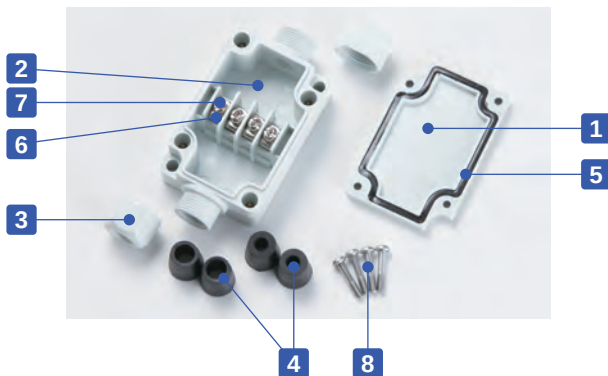
Protection class : IP65
Operating temperature : $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Recommended torque : $0.5\text{N} \cdot \text{m}$

Applicable crimp terminal
R1.25-3



Terminal Block Specification

Rated voltage	250V
Rated current	15A
Applicable wire	1.25mm^2
Standard tightening torque	$0.5\text{N} \cdot \text{m}$



Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	PBT UL94V-0	Light gray
2	Base	1	PBT UL94V-0	Light gray
3	Cable cap	2	PBT UL94V-0	Light gray
4	Rubber bush	2 pairs	EPDM	Black
5	Gasket	1	Polyurethane	Black
6	Conductive plate	3~6	Brass	Nickel plated
7	Terminal screw	3~6	Steel M3	Nickel plated
8	Cover screw	4	Stainless steel M3	Unfinished

Accessories (Optional parts)



Shorting Bar SBR series
See website

Rubber Bush RB-9
See page 176

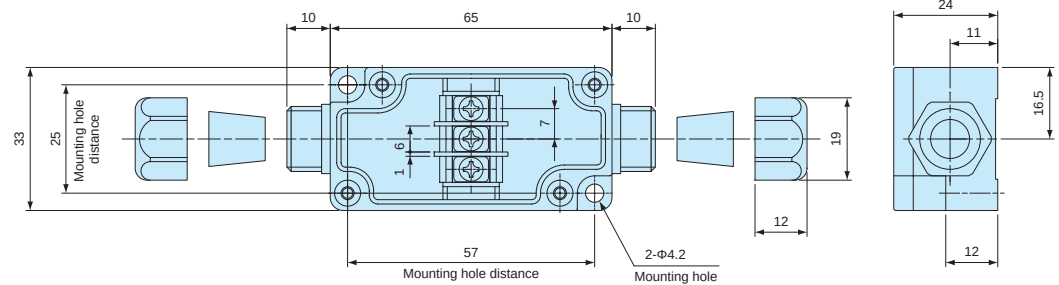
Product no. / Details

Product no.	L	W	H	Number of poles	Weight (g)
● Light gray					
TMC-3PG	65	33	24	3P	52
TMC-4PG	60	40	24	4P	58
TMC-6PG	70	50	24	6P	73

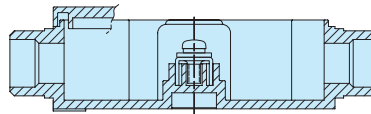
TMC dimensions

■ DXF/DWG/PDF drawings available on our website.

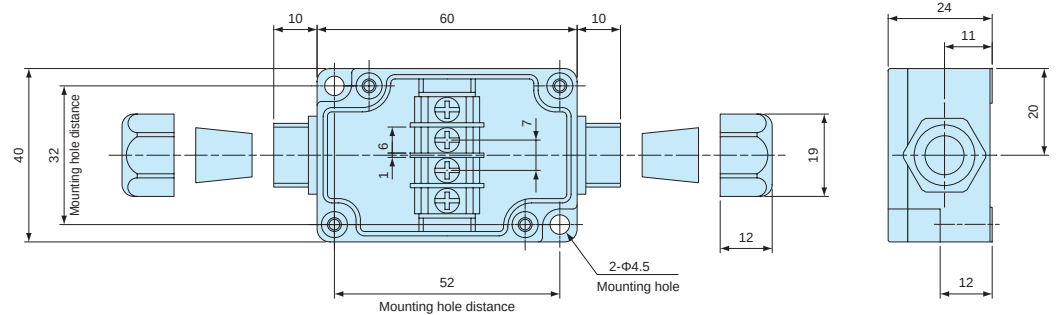
TMC-3PG



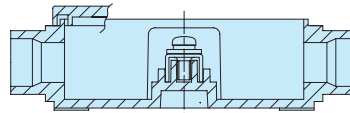
Inner diameter of rubber bush	Cable range
Φ5.0	Φ4 ~ Φ5
Φ7.4	Φ6 ~ Φ7



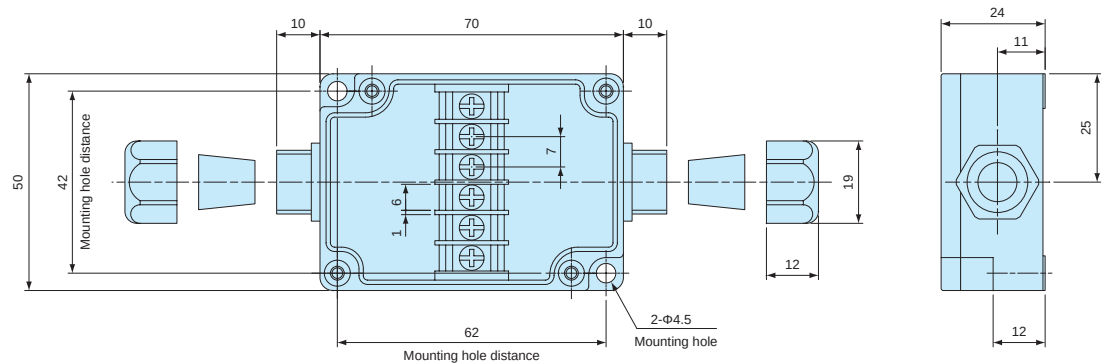
TMC-4PG



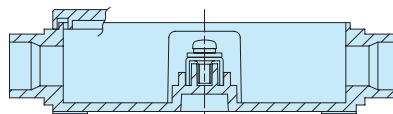
Inner diameter of rubber bush	Cable range
Φ5.0	Φ4 ~ Φ5
Φ7.4	Φ6 ~ Φ7

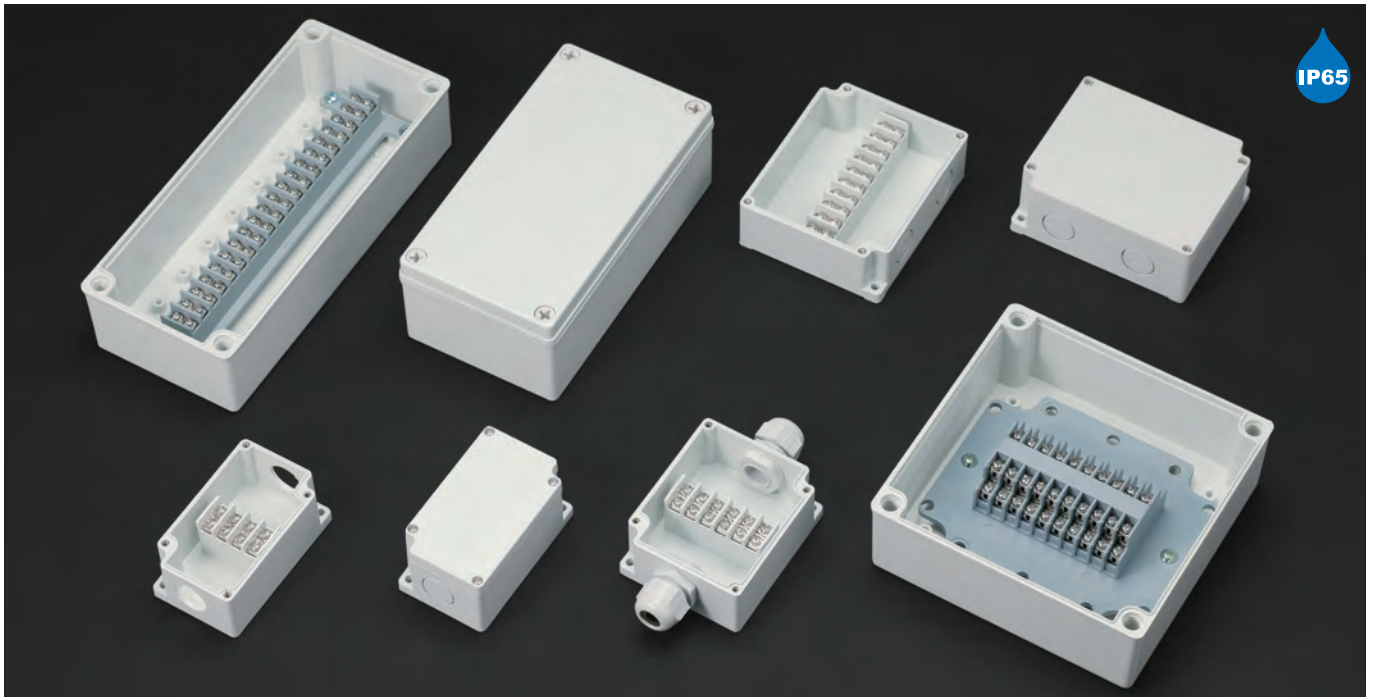


TMC-6PG

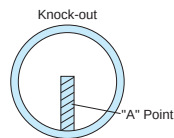


Inner diameter of rubber bush	Cable range
Φ5.0	Φ4 ~ Φ5
Φ7.4	Φ6 ~ Φ7





- Terminal junction box with built-in terminal block.
- IP65 protection class.
- ABS and Glass fiber filled polycarbonate types are available.
- TMB-4P • 6P • 10P is molded with $\Phi 21.0\text{mm}$ metric knock-outs for M20 cable glands.
- To knock out the hole covers, rest a flathead screwdriver at the "A" points, and punch out the knock-outs by hammering on the rear end of the screwdriver handle with a hammer.

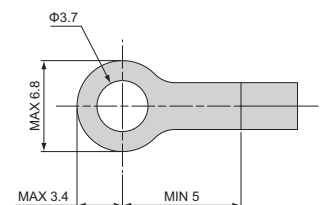


Terminal Block Specification

Rated voltage	400V
Rated current	17.5A
Applicable wire	1.5mm ²
Standard tightening torque	0.8N • m

Technical Data

Protection class : IP65
 Operating temperature : -10°C ~ +60°C
 Recommended torque :
 TMB-4P • 6P • 10P : 0.6N • m
 TMB-15PCS • 20PC • 20PCL : 1N • m

Applicable crimp terminal
R1.25-3.5

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	TMB-4P • 6P • 10P : ABS UL94V-0 TMB-15PCS • 20PC • 20PCL : Polycarbonate UL94V-0	White gray Light gray
2	Body	1	TMB-4P • 6P • 10P : ABS UL94V-0 TMB-15PCS • 20PC • 20PCL : Glass fiber filled polycarbonate UL94V-0	White gray Light gray
3	Gasket	1	Polyurethane	Black
4	Conductive plate	4 ~ 20	Brass	Nickel plated
5	Terminal screw	8 ~ 40	Steel (M3.5)	Nickel plated
—	Terminal mount screw (15PCS, 20PC, 20PCL models only)	2 ~ 4	Steel	Trivalent chromate
6	Cover screw	4	Stainless steel • Nylon	Unfinished

※ Cover screw material : Stainless steel - 4P, 6P, and 10P models • Nylon - 15PCS, 20PC, and 20PCL models.

Accessories (Optional parts)



Shorting bar SBR series
See website



Cable gland
See page 181 ~ 193



Mounting bracket CK-34Z
See website

ABS UL94V-0 Models

Product no. / Details

Product no.	L	W	H	Number of poles	Weight (g)
TMB- 4P	91	55	43	4P	102
TMB- 6P	91	75	43	6P	134
TMB-10P	91	110	43	10P	190

Polycarbonate UL94V-0 Models

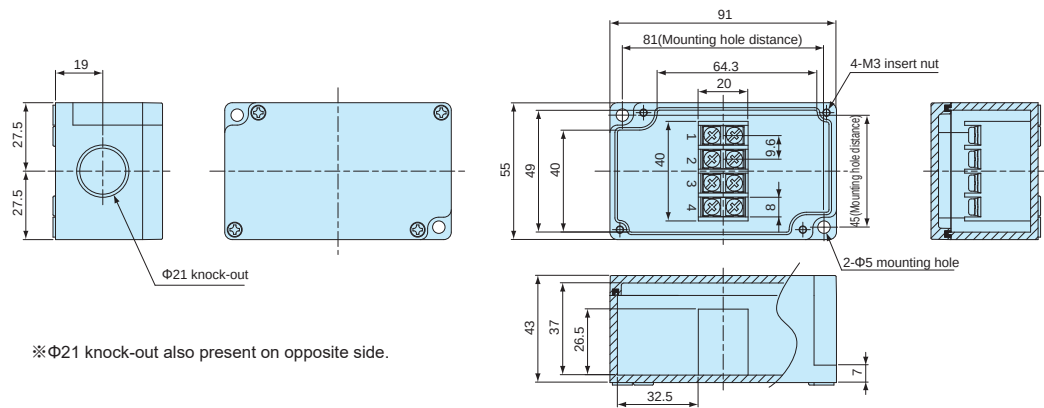
Product no. / Details

Product no.	L	W	H	Number of poles	Weight (g)
TMB-15PCS	185	100	70	15P	412
TMB-20PC	160	160	70	10P×2	560
TMB-20PCL	230	100	70	20P	484

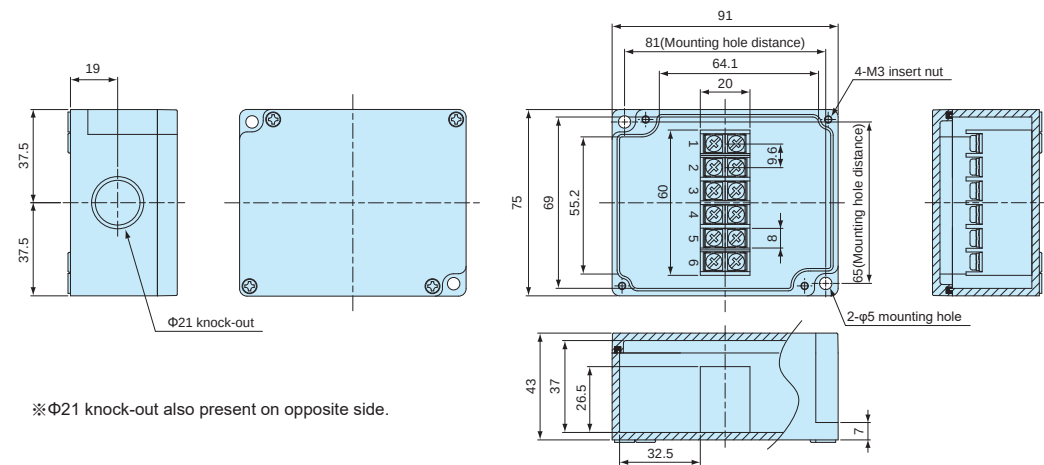
TMB dimensions

■ Drawings below are reference examples only. DXF/DWG/PDF drawings available on our website.

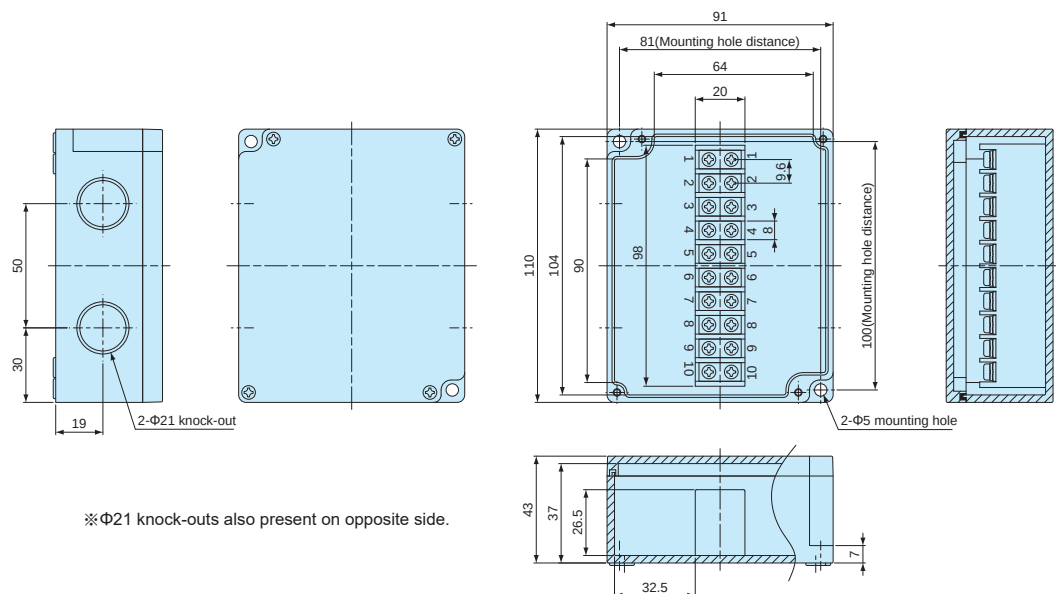
TMB-4P



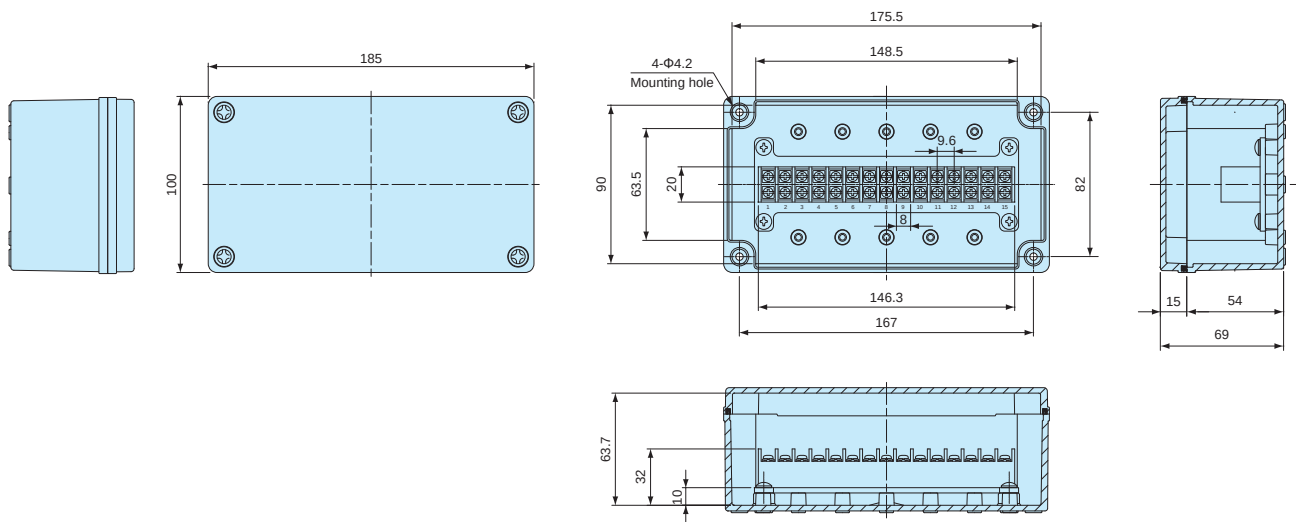
TMB-6P



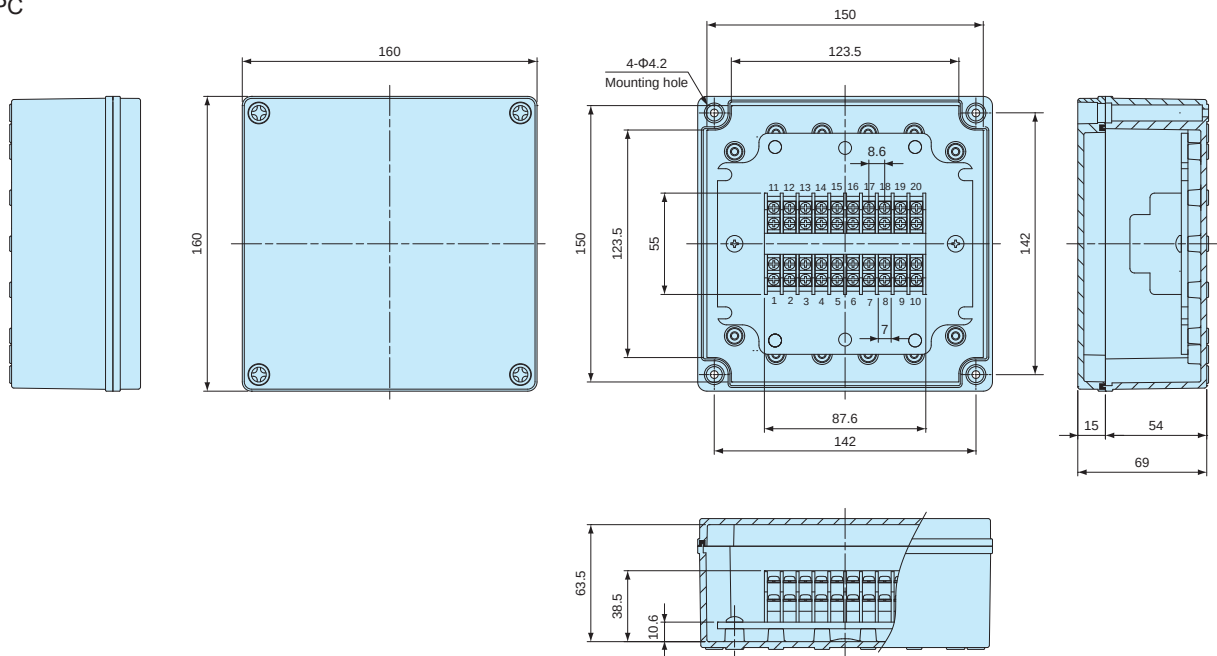
TMB-10P



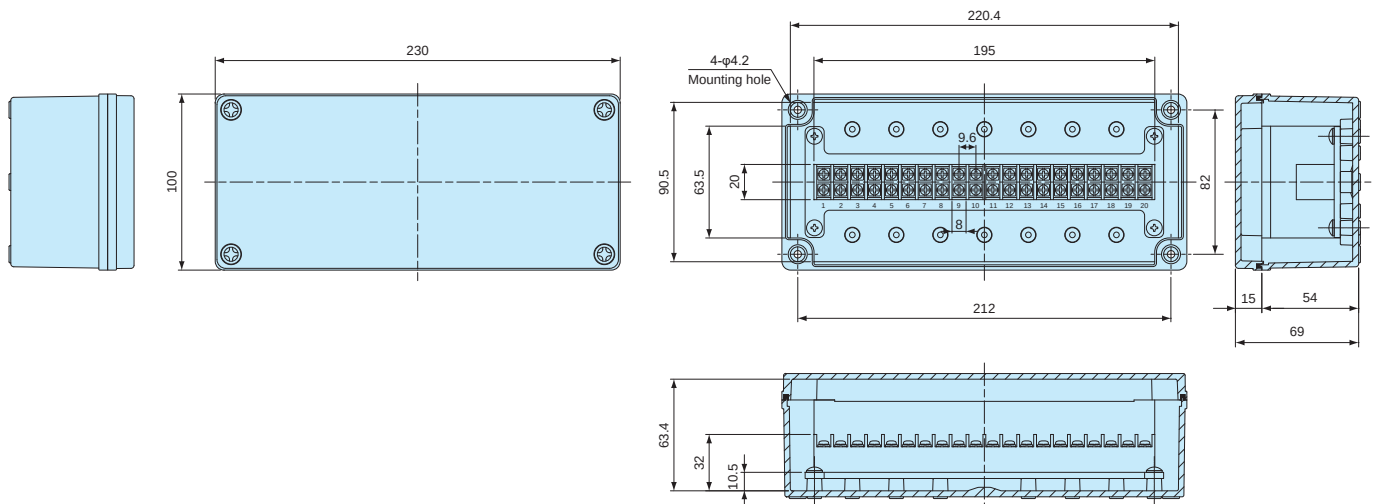
TMB-15PCS



TMB-20PC



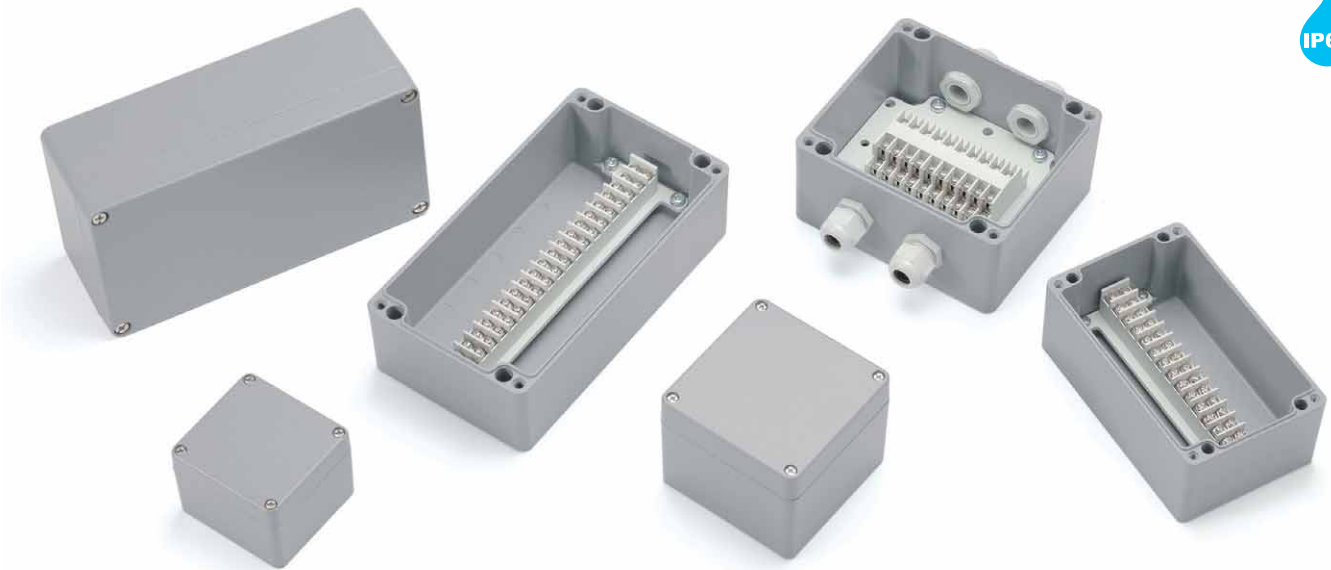
TMB-20PCL



TMA SERIES

DIECAST ALUMINIUM TERMINAL JUNCTION BOX

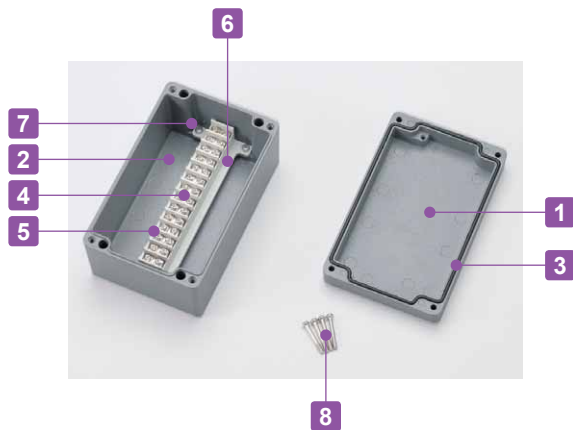
IP65



- IP65 protection class and impact resistant diecast aluminium terminal junction box.
- Diecast aluminum box has superior heat dissipation, heat resistance, and oil resistance compared to plastic box.
- Available in 6 different sizes with 6 to 30 poles configurations.

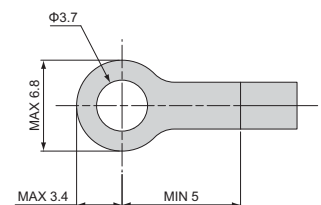
Technical Data

Protection class: IP65
 Operating temperature: -40°C ~ +80°C
 Recommended torque: 1N • m



Terminal Block Specification

Rated voltage	400V
Rated current	17.5A
Applicable wire	1.5mm ²
Standard tightening torque	0.8N • m

Applicable crimp terminal
R1.25-3.5

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Diecast aluminium	Light gray / Painted
2	Body	1	Diecast aluminium	Light gray / Painted
3	Gasket	1	Polyurethane	Black
4	Conductive plate	6 ~ 30	Brass	Nickel plated
5	Terminal screw (M3.5 Pan head)	12 ~ 60	Steel	Nickel plated
6	Terminal base	1	PBT (UL94V-0)	Light gray
7	Terminal mount screw (M4 • M6 Pan head)	2 ~ 4	Steel	Trivalent chromate
8	Cover screw	4	Stainless steel	Unfinished

Accessories (Optional parts)



Shorting bar SBR series
 See page SBR-1

Cable gland
 See cable gland pages

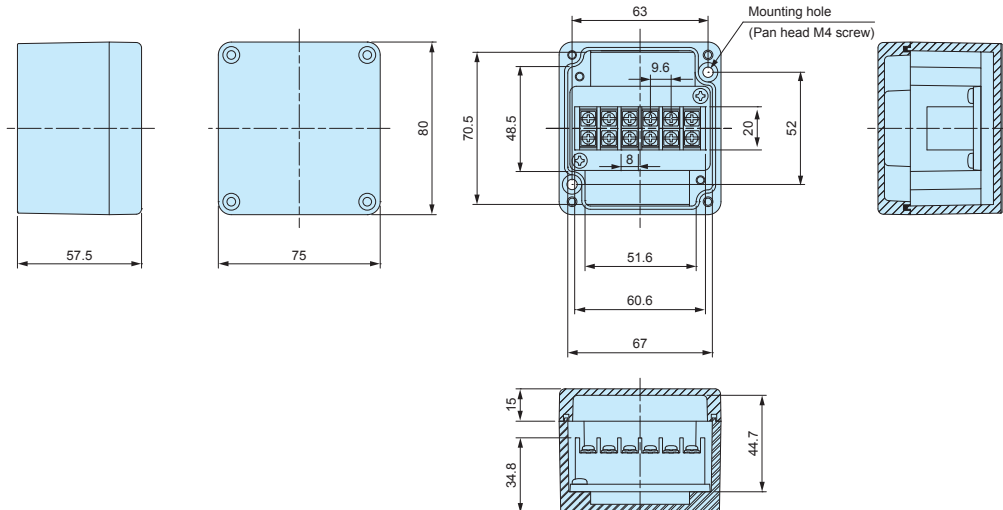
Product no. / Dimensions

Product no.	L	W	H	Number of poles	Weight (g)
TMA- 6P	80	75	57.5	6P	341
TMA- 9P	100	100	80	9P	642
TMA-15P	100	160	80	15P	867
TMA-20P-AS	132	150	90	10P × 2	1,394
TMA-20P	120	220	80	20P	1,426
TMA-30P-AS	120	220	80	15P × 2	1,529

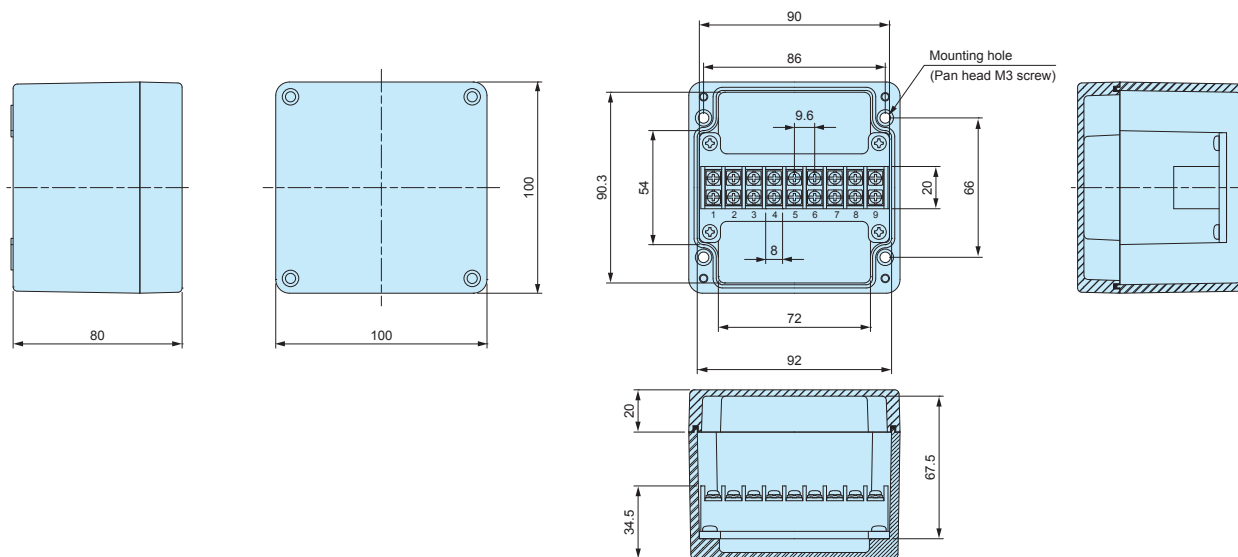
TMA dimensions

■ Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.

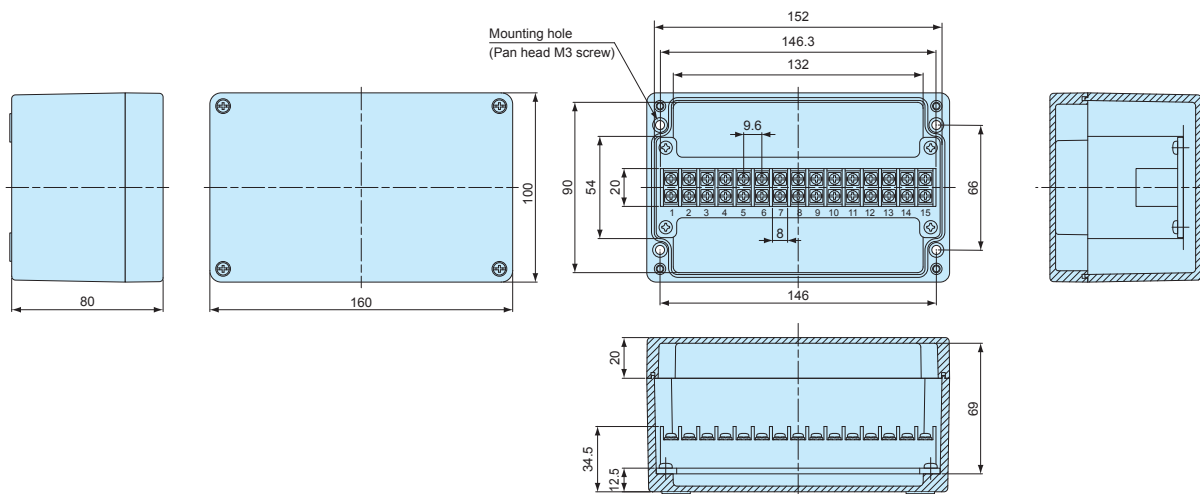
TMA-6P



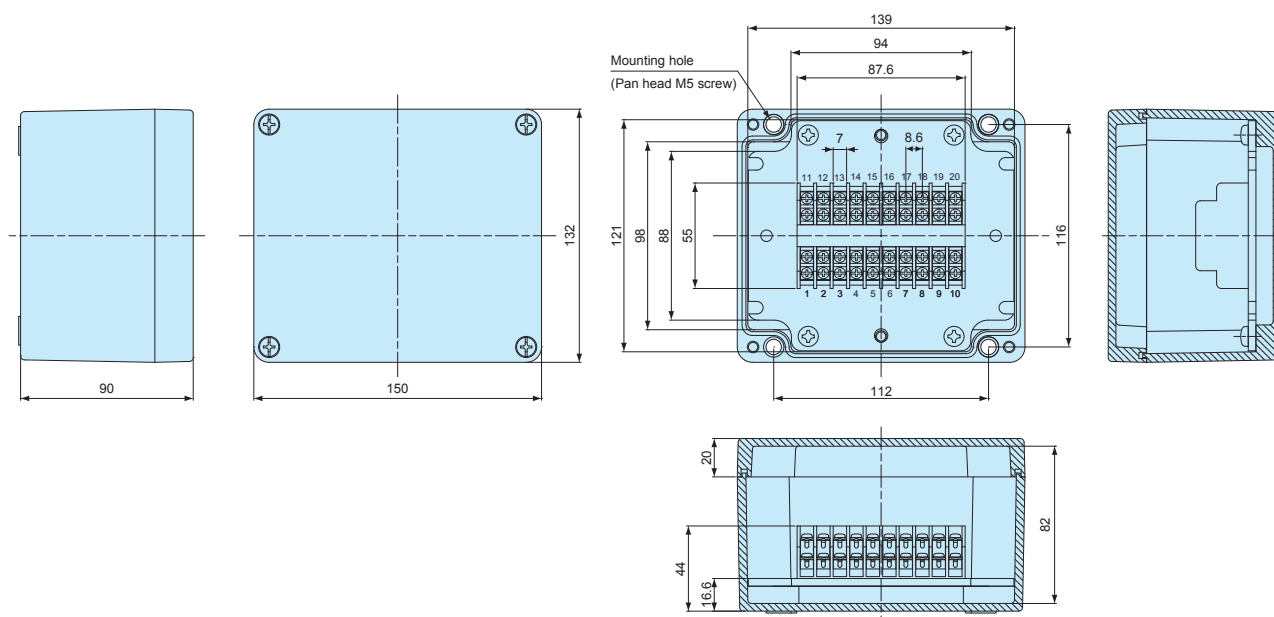
TMA-9P



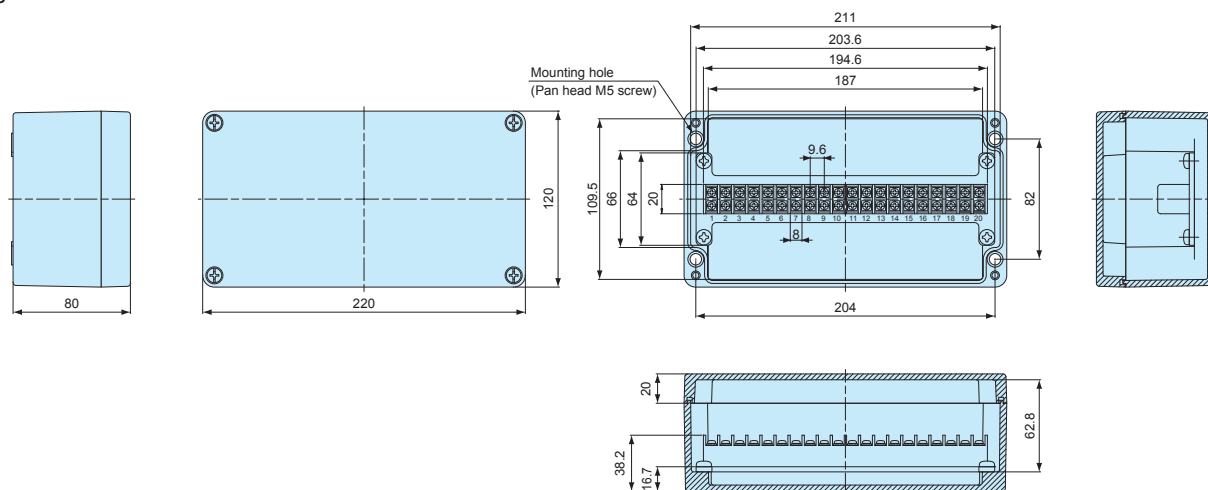
TMA-15P



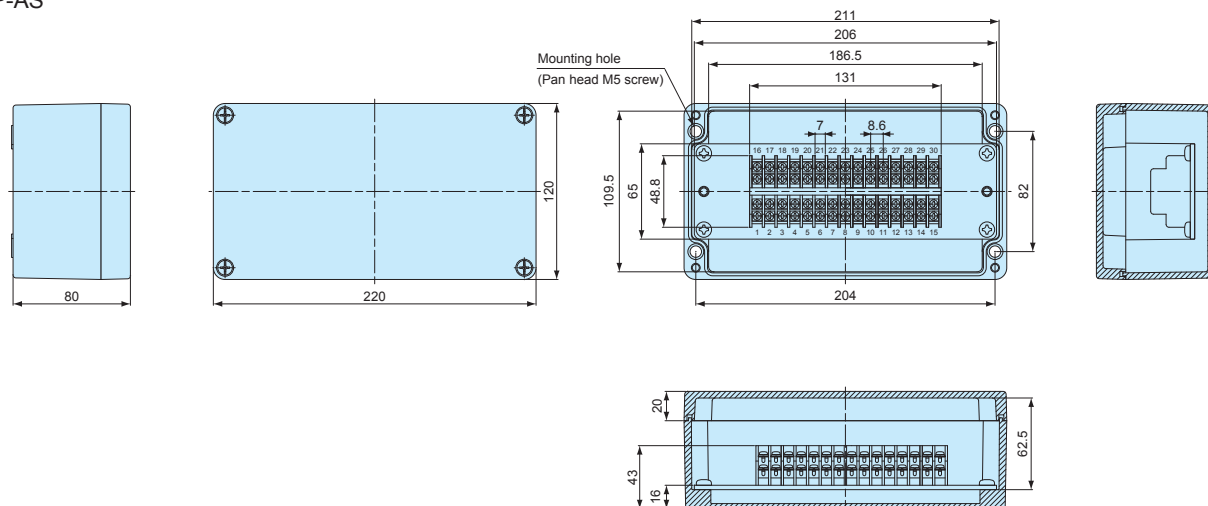
TMA-20P-AS



TMA-20P

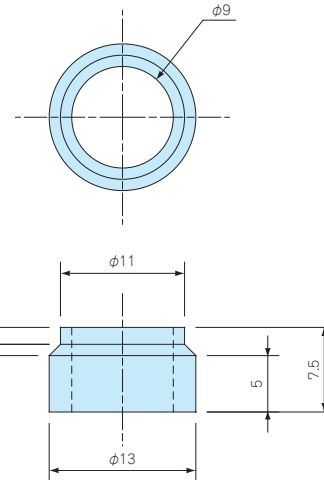


TMA-30P-AS



RB-9

RUBBER BUSH



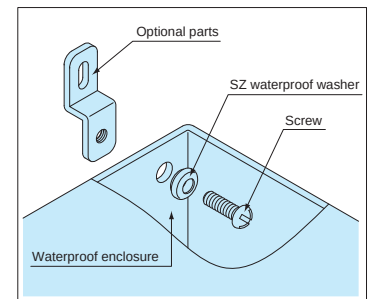
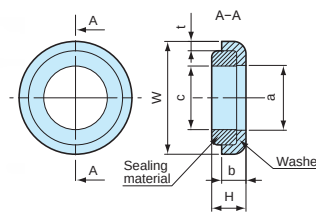
- Rubber bush for TMC series terminal junction box.
- Applicable for $\phi 8 \sim \phi 9$ mm diameter cable.

Product no. / Details

Product no.	Material	Color	Cable range	Pack of
RB-9	NBR	Black	$\phi 8 \sim \phi 9$ mm	2

SZ series

WATERPROOF WASHER



- Waterproof washer for screwing onto waterproof boxes.
- NBR sealing material has superior oil resistance (N models only).
- Silicone sealing material has wider operating temperature with superior temperature and water resistance (S models only).

Technical Data

Water pressure resistance :
M3 ~ M16
0.98MPa (10kgf/cm²) / 1 hour

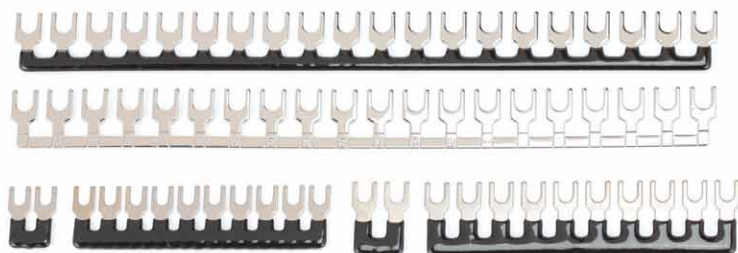
- Shape of the sealing material vary by product.

Product no. / Details

Product no.	W	H	a	b	c	t	Washer material	Sealing material	Color	Screw size	Pack of
SZ- 3N	7	2.7	3.2	2.2	3.1	0.5	SUS304	NBR	Black	M 3	1
SZ- 3S	7	2.7	3.2	2.2	3.1	0.5	SUS304	Silicone	Brown	M 3	1
SZ- 4N	8	2.8	4.2	2.1	4.1	0.5	SUS304	NBR	Black	M 4	1
SZ- 4S	8	2.8	4.2	2.1	4.1	0.5	SUS304	Silicone	Brown	M 4	1
SZ- 5N	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	NBR	Black	M 5	1
SZ- 5S	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	Silicone	Brown	M 5	1
SZ- 6N	11.5	4	6.2	3	6.2	1	SUS304	NBR	Black	M 6	1
SZ- 6S	11.5	4	6.2	3	6.2	1	SUS304	Silicone	Brown	M 6	1
SZ- 8N	15.2	3.8	8.2	3.2	8.2	1	SUS304	NBR	Black	M 8	1
SZ- 8S	15.2	3.8	8.2	3.2	8.2	1	SUS304	Silicone	Brown	M 8	1
SZ-10N	18	5.3	10.2	4	10.2	1.5	SUS304	NBR	Black	M10	1
SZ-10S	18	5.3	10.2	4	10.2	1.5	SUS304	Silicone	Brown	M10	1
SZ-12N	24	6.1	14.2	4.8	12.2	1.5	SUS304	NBR	Black	M12	1
SZ-12S	24	6.1	14.2	4.8	12.2	1.5	SUS304	Silicone	Brown	M12	1
SZ-16N	30	6.8	18.4	5.3	16	1.9	SUS304	NBR	Black	M16	1
SZ-16S	30	6.8	18.4	5.3	16	1.9	SUS304	Silicone	Brown	M16	1
NEW SZ-3N-P	7	2.7	3.2	2.2	3.1	0.5	SUS304	NBR	Black	M 3	50
NEW SZ-3S-P	7	2.7	3.2	2.2	3.1	0.5	SUS304	Silicone	Brown	M 3	50
NEW SZ-4N-P	8	2.8	4.2	2.1	4.1	0.5	SUS304	NBR	Black	M 4	50
NEW SZ-4S-P	8	2.8	4.2	2.1	4.1	0.5	SUS304	Silicone	Brown	M 4	50
NEW SZ-5N-P	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	NBR	Black	M 5	50
NEW SZ-5S-P	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	Silicone	Brown	M 5	50

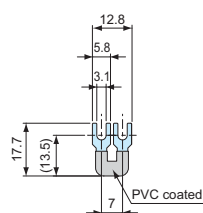
SBR SERIES

SHORTING BAR

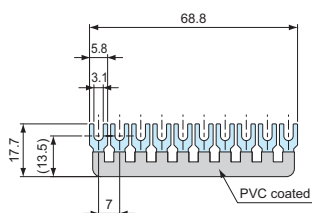


- Shorting bar for common-wiring.
- SBR70-10P, SBR85-10P, SBR95-20P, and SBR95-20N can be cut accordingly into required poles.
- PVC coated. SBR95-20 available in both PVC coated (SBR95-20P) and non PVC coated (SBR95-20N) models.
- See chart below for suitable box.

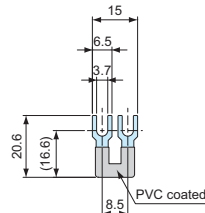
SBR70-2P



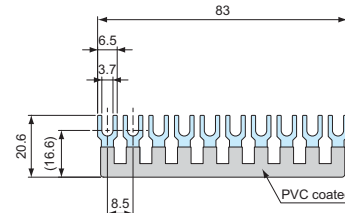
SBR70-10P



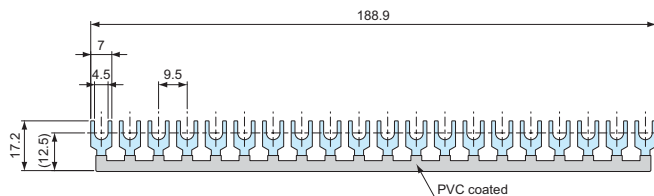
SBR85-2P



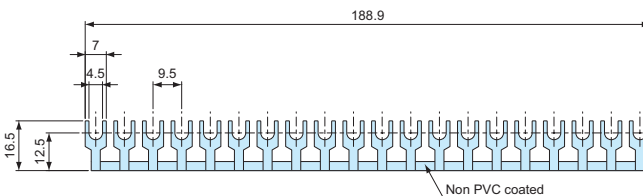
SBR85-10P



SBR95-20P



SBR95-20N



Suitable Box Chart

Product no.	Number of poles	Pole distance	Suitable box
SBR70 - 2P	2P	7.0mm	TMC series
SBR70 -10P	10P	7.0mm	TMC series
SBR85 - 2P	2P	8.6mm	TMB-20P, TMA-20P-AS, TMA30P-AS
SBR85 -10P	10P	8.6mm	TMB-20P, TMA-20P-AS, TMA30P-AS
SBR95 -20P	20P	9.6mm	TMA • TMB series (Not applicable for TMB-20P, TMA20P-AS, and TMA30P-AS models)
SBR95 -20N	20P	9.6mm	TMA • TMB series (Not applicable for TMB-20P, TMA20P-AS, and TMA30P-AS models)

Product no. / Feature

■ Pack quantity differs by models.

Product no.	Number of poles	Material	Finish	PVC coating	Pack of
SBR70 - 2P	2P	Brass	Nickel plated	Yes	10
SBR70 -10P	10P	Brass	Nickel plated	Yes	1
SBR85 - 2P	2P	Brass	Nickel plated	Yes	10
SBR85 -10P	10P	Brass	Nickel plated	Yes	1
SBR95 -20P	20P	Brass	Nickel plated	Yes	1
SBR95 -20N	20P	Brass	Nickel plated	No	1

IP68 WATERPROOF CONNECTOR MODEL CHART LINE-UP

● PLUG - SOCKET

Connector Type	Insertion / Extraction	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THB381 	Snap-Lock Push/Pull	Screw Lock	2P 3P	$\phi 5.5 \sim \phi 7.0$ $\phi 7.0 \sim \phi 8.0$ $\phi 5.5 \sim \phi 7.0$ $\phi 7.0 \sim \phi 8.0$	Rated Voltage 500V AC (12V~60V DC) Rated Current 10AAC/DC Rated Voltage 500V AC Rated Current 10AAC	Details
THB387 	Screw Lock	Screw Lock	3P 4P 5P	$\phi 7.0 \sim \phi 12$	Rated Voltage Max 500V AC Rated Current Max 17.5A	Details
THB387L  UL Certified	Screw Lock	Screw Lock	4P 5P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage Max 500V AC Rated Current Max 17.5A (EN61984) Rated Current Max 10A • 15A (UL2238/C22.2 No.182.3)	Details
THB389 	Snap-Lock Push/Pull	Screw Lock	4P 5P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage 500V AC Rated Current 17.5A	Details
THS389  UL Certified	Snap-Lock Push/Pull	Spring/Lever	4P 5P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage Max 500V AC (EN61984) Rated Voltage Max 600V AC (UL2238/C22.2 No.182.3) Rated Current Max 17.5A (EN61984) Rated Current Max 10A(UL2238/C22.2 No.182.3)	Details
THB405 	Ring-Lock Push/Pull	Screw Lock	6P 8P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage Max 400V AC Rated Current Max 17.5A Rated Voltage Max 400V AC (DC60V) Rated Current Max 10AAC/DC	Details

Panel-Mount Type	Insertion / Extraction	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THB381E 	Snap-Lock Push/Pull	Screw Lock	2P 3P	$\phi 5.5 \sim \phi 7.0$ $\phi 7.0 \sim \phi 8.0$ $\phi 5.5 \sim \phi 7.0$ $\phi 7.0 \sim \phi 8.0$	Rated Voltage 500V AC (12V~60V DC) Rated Current 10AAC/DC Rated Voltage 500V AC Rated Current 10AAC	Details
THB387E 	Screw Lock	Screw Lock	3P 4P 5P	$\phi 7.0 \sim \phi 12$	Rated Voltage Max 500V AC Rated Current Max 17.5A	Details
THB387LE  UL Certified	Screw Lock	Screw Lock	4P 5P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage Max 500V AC Rated Current Max 17.5A (EN61984) Rated Current Max 10A • 15A (UL2238/C22.2 No.182.3)	Details
THB389E 	Snap-Lock Push/Pull	Screw Lock	4P 5P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage 500V AC Rated Current 17.5A	Details
THS389E  UL Certified	Snap-Lock Push/Pull	Spring/Lever	4P 5P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage Max 500V AC (EN61984) Rated Voltage Max 600V AC (UL2238/C22.2 No.182.3) Rated Current Max 17.5A (EN61984) Rated Current Max 10A(UL2238/C22.2 No.182.3)	Details
THB406 	Ring-Lock Push/Pull	Screw Lock	3P 6P 8P	$\phi 7.0 \sim \phi 13.5$	Rated Voltage Max 400V AC Rated Current Max 25A (EN61984) Rated Voltage Max 400V AC Rated Current Max 17.5A Rated Voltage Max 400V AC (DC60V) Rated Current Max 10AAC/DC	Details

● INTEGRATED

Straight Type	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THB391 	Screw Lock	2P 3P 4P	$\phi 7.0 \sim \phi 12$	Rated Voltage 450V AC Rated Current 17.5A	Details
THB390 • 400 	Screw Lock	3P • 4P 6P • 2WP 3WP • D4P No Terminal	$\phi 7.0 \sim \phi 13.5$ $\phi 8.0 \sim \phi 17.0$ $\phi 13.5 \sim \phi 15.5$ $\phi 16 \sim \phi 20$	Rated Voltage 450V AC Rated Current 24A Rated Voltage 250V AC Rated Current 32A Rated Voltage 750V AC Rated Current 41A	Details
3 BRANCH T SHAPE	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THB390T • 402T 	Screw Lock	3P 6P 3WP No Terminal	$\phi 7.0 \sim \phi 13.5$	Rated Voltage 250V AC Rated Current 24A Rated Voltage 250V AC Rated Current 32A	Details
3 BRANCH Y SHAPE	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THB399Y 	Screw Lock	3P 6P 3WP No Terminal	$\phi 7.0 \sim \phi 13.5$	Rated Voltage 250V AC Rated Current 24A Rated Voltage 250V AC Rated Current 32A	Details
4 BRANCH H SHAPE	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THB392 	Screw Lock	4P×4	$\phi 7.0 \sim \phi 12$	Rated Voltage 450V AC Rated Current 17.5A	Details

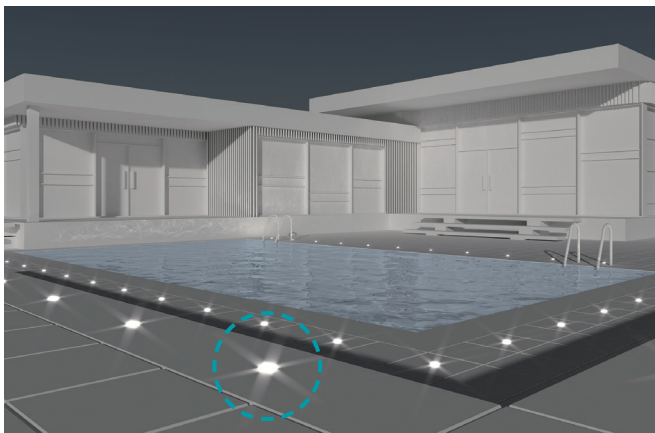
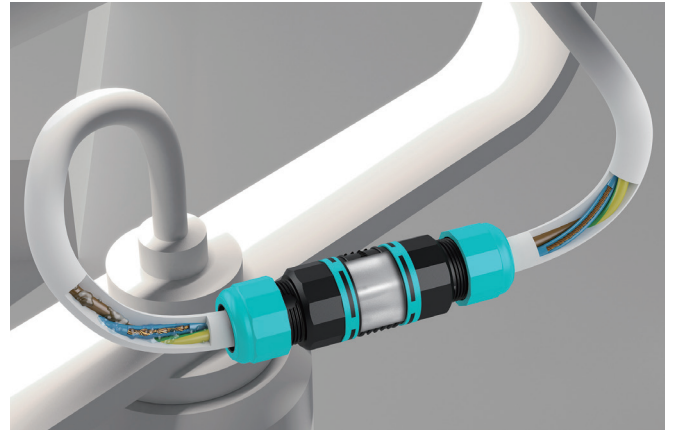
● RELAY BOX

3 • 4 BRANCH TYPE	Wire Connection	Number of pole	Applicable Wire	Specification	Details on Website
THA209A • 209B 	Screw Lock	3P • 5P 8P • 3WP 4WP • 3LP No Terminal	$\phi 7.0 \sim \phi 13.5$	Rated Voltage 450V AC Rated Current 24A • 32A • 41A	Details



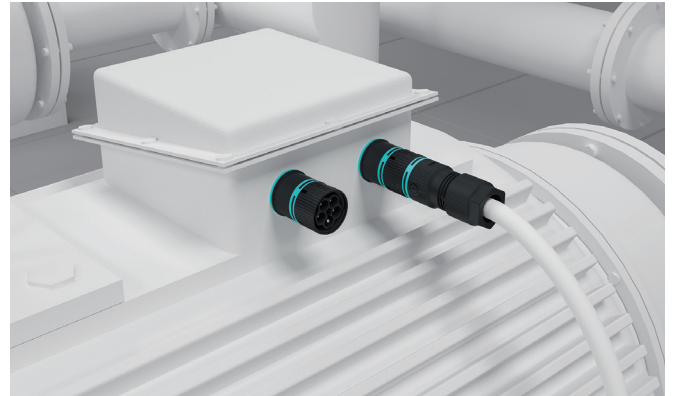
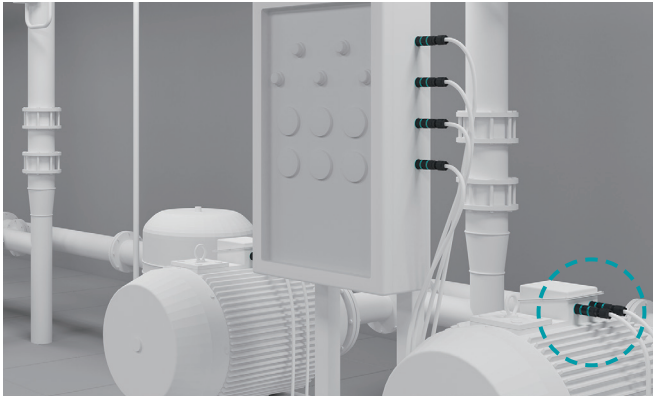
Application Example - Waterproof Connector

Outdoor LED Lighting Connection

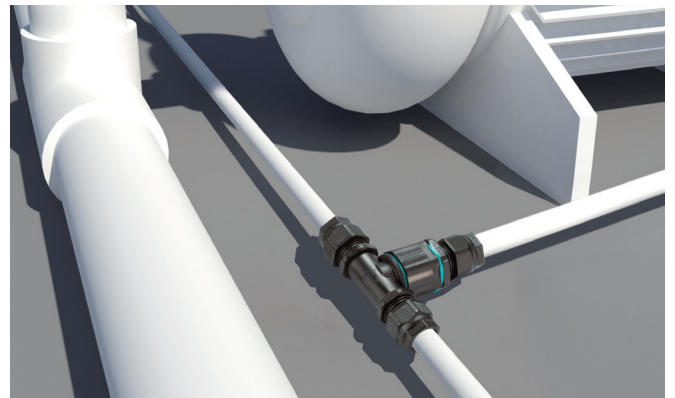
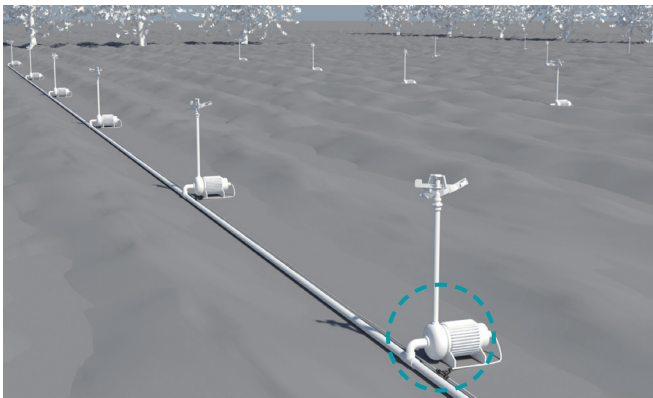


Application Example-1

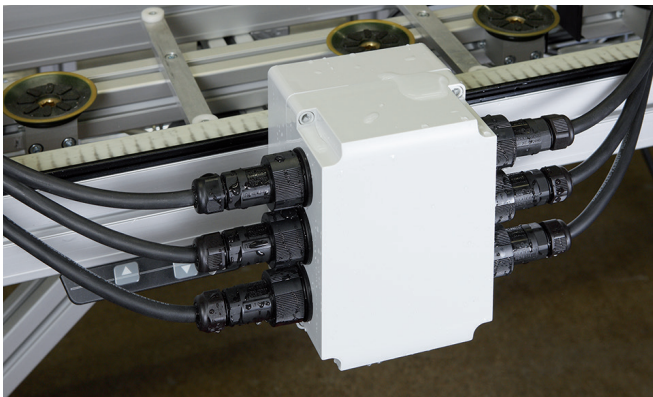
Industrial Motor Connection



Sprinkler System Connection



Power / Sensor Signal Relay in Factory Automation



Machinery



Circuit Breaker Connector



Underground • Underfloor Wiring



THS389 series

IP68 UL CERTIFIED SNAP-LOCK SCREWLESS MINI CONNECTOR



SCREWLESS



- Screwless terminal block for high-speed connection.
- 4P and 5P pole terminal models are available.
- UL2238 / C22.2 No. 182.3 certified products.

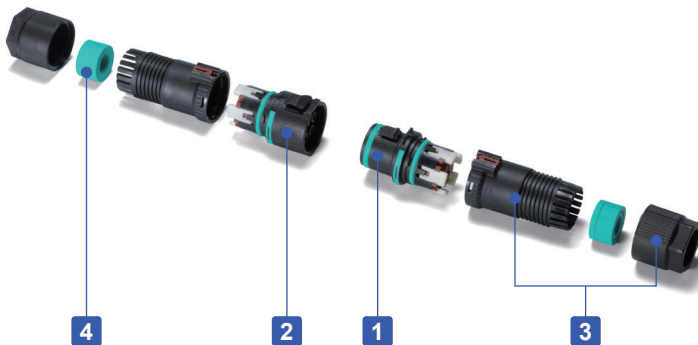
PUSH PULL EASY CLICK !



- Easy connection / disconnection through the use of the snap-lock mechanism.

Technical Data

Protection class : IP68 0.5bar/1h (1 hour / 5m depth)
Operating temperature : -40°C ~ +100°C
EN61984 compliant.



Specifications

Rated voltage	AC500V (EN61984)
	AC600V (UL2238/C22.2 No.182.3)
Rated current	17.5A (EN61984)
	10A (UL2238/C22.2 No.182.3)
Applicable wire (Stranded • Single)	0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	2.5kV
Number of insertion/extraction	100 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive bracket
See page Tool-1



Sealing plug • socket cap
See page Cap-1



Exclusive tightening tool
See page Tool-5

Terminal sequence

Plug side (Male)



THS389-4P



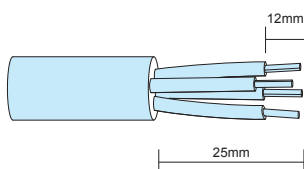
THS389-5P



Socket side (Female)



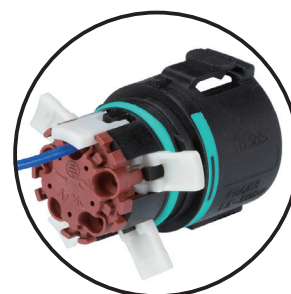
Wire connection diagram



■ Ready the wiring.



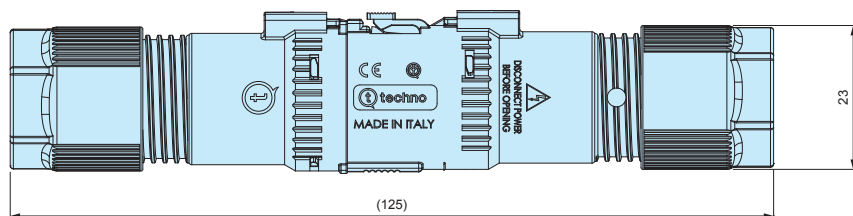
■ Lift the lever and insert wire.



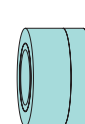
■ Close / drop the lever to complete the connection.

THS389 dimensions

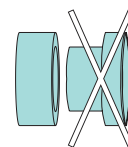
■ DXF/DWG/PDF drawings available on our website.



Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

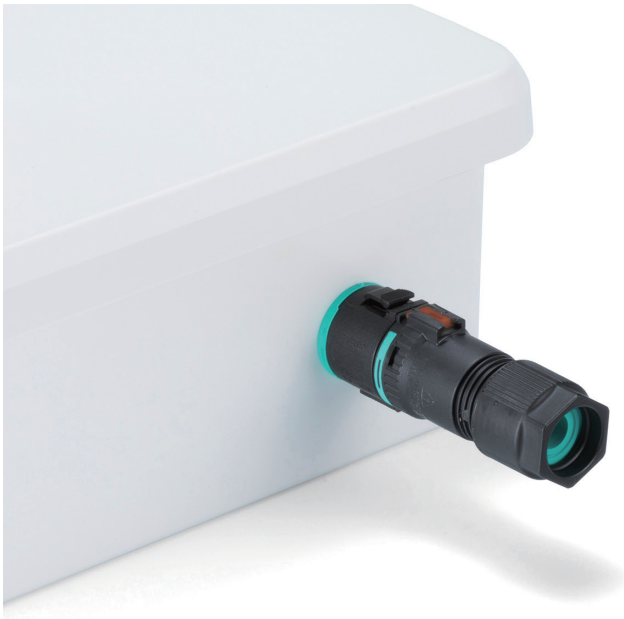
■ Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	Cable range	Number of poles
THS389-4P	Φ7.0 ~ Φ13.5	4P
THS389-5P	Φ7.0 ~ Φ13.5	5P

THS389E series

IP68 UL CERTIFIED SNAP-LOCK SCREWLESS MINI PANEL-MOUNT CONNECTOR



SCREWLESS



- Screwless terminal block for high-speed connection.
- 4P and 5P pole terminal models are available.
- UL2238 / C22.2 No. 182.3 certified products.

PUSH PULL EASY CLICK !



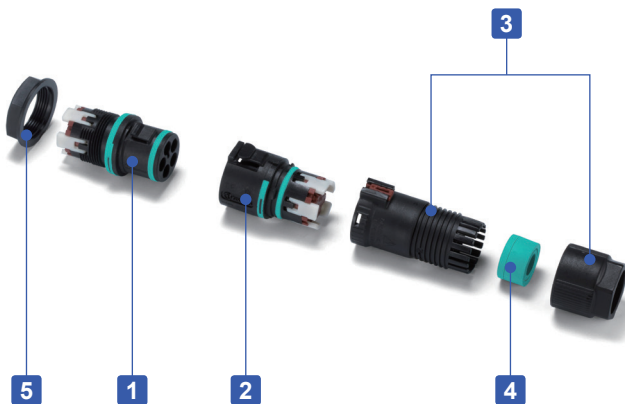
- Easy connection / disconnection through the use of the snap-lock mechanism while installed on panels or enclosures.

Technical Data

Protection class : IP68 0.5bar/1h (1 hour / 5m depth)
Operating temperature : -40°C ~ +100°C
EN61984 compliant.

Specifications

Rated voltage	AC500V (EN61984)
	AC600V (UL2238/C22.2 No.182.3)
Rated current	17.5A (EN61984)
	10A (UL2238/C22.2 No.182.3)
Applicable wire (Stranded • Single)	0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	2.5kV
Number of insertion/extraction	100 times



Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	1	PA66 (UL94V-2)	Black
4	Sealing insert	1	TPE	Green
3	Lock nut	1	PA66 (UL94V-2)	Black

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Sealing plug • socket cap
See page Cap-1



Exclusive tightening tool
See page Tool-5



Exclusive locking tool
See page Tool-1

Terminal sequence

Cable side



THS389E-4P-SP



THS389E-4P-PS



THS389E-5P-SP



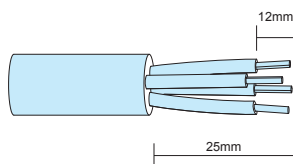
THS389E-5P-PS



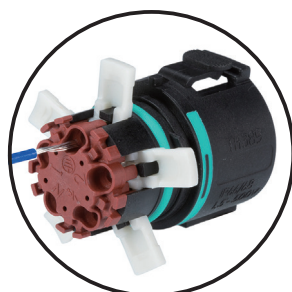
Panel-mount side



Wire connection diagram



■ Ready the wiring.



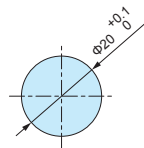
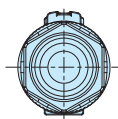
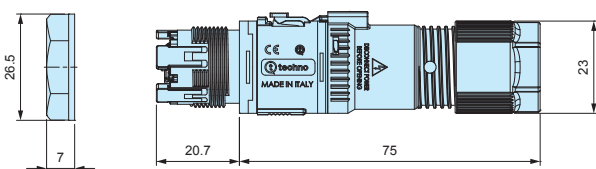
■ Lift the lever and insert wire.



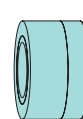
■ Close / drop the lever to complete the connection.

THS389E dimensions

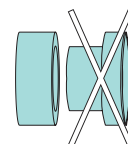
■ DXF/DWG/PDF drawings available on our website.



Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

■ Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	Cable side / Panel-mount side	Cable range	Number of poles	Mounting thickness (mm)
THS389E-4P-SP	Socket / Plug	Φ7.0 ~ Φ13.5	4P	1 ~ 3
THS389E-4P-PS	Plug / Socket	Φ7.0 ~ Φ13.5	4P	1 ~ 3
THS389E-5P-SP	Socket / Plug	Φ7.0 ~ Φ13.5	5P	1 ~ 3
THS389E-5P-PS	Plug / Socket	Φ7.0 ~ Φ13.5	5P	1 ~ 3

SEALING PLUG CAP for THB389・389E・THS389・389E

■ DXF/DWG/PDF drawings available on our website.



Installation example



- Protect plug from dust or foreign objects when not in use. Material : Cap / Polyamide 66・Ring / Silicone.
- Sealing plug caps are not waterproof.

Product no. / Details

Product no.	Suitable models
6DB055400	THB389・389E・THS389・389E - Plug side

SEALING SOCKET CAP for THB389・389E・THS389・389E

■ DXF/DWG/PDF drawings available on our website.



Installation example



- Protect socket from dust or foreign objects when not in use. Material : Cap / Polyamide 66・Ring / Silicone.
- Sealing socket caps are not waterproof.

Product no. / Details

Product no.	Suitable models
6DB055300	THB389・389E・THS389・389E - Socket side

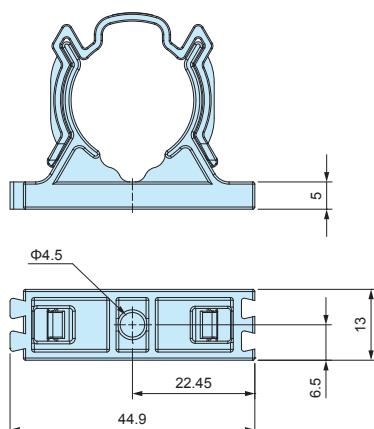
EXCLUSIVE BRACKET for THB389 • THS389



Installation example



- Use when affixing / securing the connector onto a surface.



Product no. / Details

■ PA66 = Polyamide 66

Product no.	Material / Color	Suitable models
6000589CC	PA66 / Black	THB389 • THS389

EXCLUSIVE LOCKING TOOL for THB389E • THS389E



Plug side installation



Socket side installation

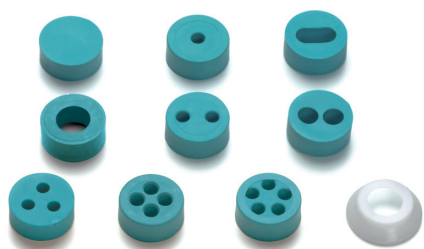
- Exclusive Locking Tool for THB389E • THS389E

Product no. / Details

■ PA66 = Polyamide 66

Product no.	Material / Color	Suitable models
6000532KC	PA66 / Black	THB389E • THS389E - Panel mount side

SEALING INSERT for THA • THB • THS



- Optional sealing insert for THA209, THB387L, 387LE, 389, 389E, 390, 399Y, 400, 402T, 405, 406, THS389 and 389E.

(Not applicable to be used for THB381, 381E, 387, 387E, 391 and 392 series.)

- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000087LF cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.

Product no. / Details

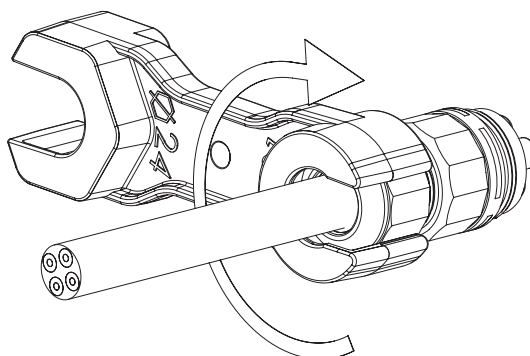
Product no.	Appearance	Cable range	Material	Pack of
600013700		Blind insert without hole	TPE	10
600012700		11mm × 5.5mm	TPE	10
600037000		Φ4.0 ~ Φ6.5mm	TPE • POM	10 each
604001100		Φ5.5 ~ Φ9.5mm Use fixing cap for cables sized Φ7.0mm or smaller	TPE • POM	10 each
600013600		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600012500		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600030600		Φ4.5 ~ Φ6.0mm	TPE	10
600012600		Φ2.0 ~ Φ4.0mm	TPE	10
600018200		Φ2.0 ~ Φ3.5mm	TPE	10
600022400		Φ2.5 ~ Φ3.5mm	TPE	10
6000087LF		Cap for cables sized Φ7.0mm or smaller	POM	10

- 6000087LF cap cannot be used with 600030600 and 600022400

EXCLUSIVE TIGHTENING TOOL for THB • THS



How to use



- Dedicated locking tool for tightening of the cable gland cap.

Product no. / Details

- PA66GF = Glass fiber filled polyamide 66

Product no.	Material / Color	Suitable models
6000337BC	PA66GF / Black	THB387 • 387E • 387L • 387LE • 389 • 389E • 390 • 390T • 391 • 392 • 399Y • 400 • 402T • 405 • 406 • THS389 • 389E

THB389 series

IP68 SNAP-LOCK MINI CONNECTOR



- IP68 snap-lock connector for easy and frequent connection / disconnection.
- 4P and 5P pole models are available.
- Plug-socket connector type consisting of the plug side (male) and socket side (female).

Technical Data

Protection class : IP68 0.5bar/1h (1 hour / 5m depth)
Operating temperature : -40°C ~ +100°C
EN61984 compliant.

Specifications

Rated voltage	AC500V
Rated current	17.5A
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	2.5kV



Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66
■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Sealing Insert-2



Exclusive bracket
See page Tool-1



Sealing plug • socket cap
See page Cap-1



Exclusive tightening tool
See page Tool-4

Terminal sequence

Plug side (Male)



THB389-4P



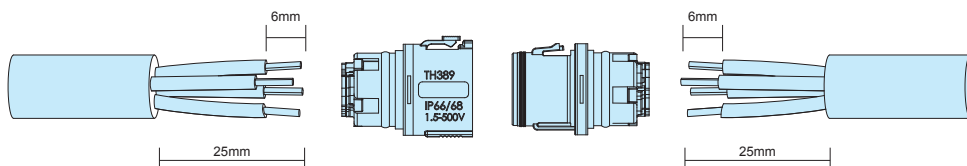
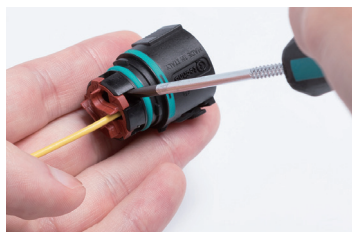
THB389-5P



Socket side (Female)



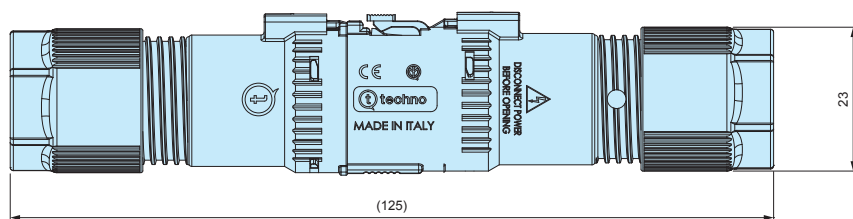
Wire connection diagram



- Screw type connection method; soldering or special tools are not required.
- Screwdriver flathead tip width of 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB389 dimensions

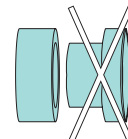
■ DXF/DWG/PDF drawings available on our website.



Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

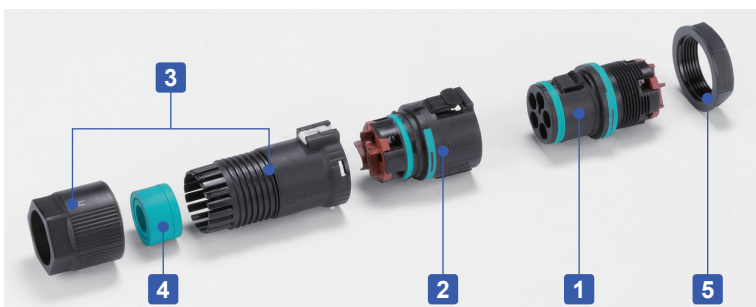
Product no.	Cable range	Number of poles
THB389-4P	Φ7.0 ~ Φ13.5	4P
THB389-5P	Φ7.0 ~ Φ13.5	5P



- IP68 snap-lock mini panel-mount connector for easy and frequent connection / disconnection.
- Can be attached / detached while installed on panels or enclosures.
- 4P and 5P pole models are available.
- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).

Technical Data

Protection class : IP68 0.5bar/1h (1 hour / 5m depth)
Operating temperature : -40°C ~ +100°C
EN61984 compliant.



- Shown above is SP (Socket / Plug) type.

Specifications

Rated voltage	AC500V
Rated current	17.5A
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	2.5kV

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green
5	Lock nut	1	PA66 (UL94V-2)	Black

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Sealing plug • socket cap
See page Cap-1



Exclusive tightening tool
See page Tool-5



Exclusive locking tool
See page Tool-1

Terminal sequence

Cable side

THB389E-4P-SP

THB389E-4P-PS

THB389E-5P-SP

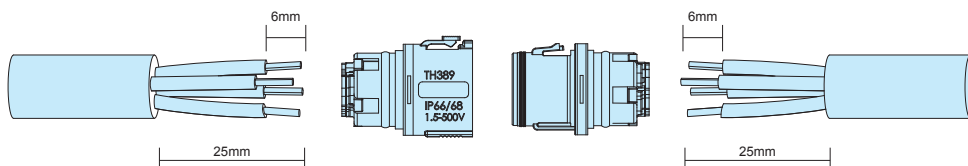
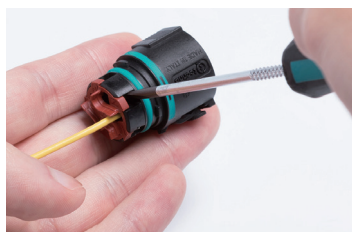
THB389E-5P-PS



Panel-mount side



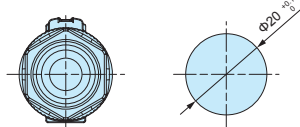
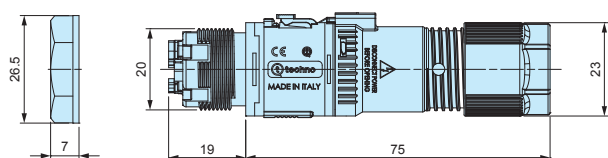
Wire connection diagram



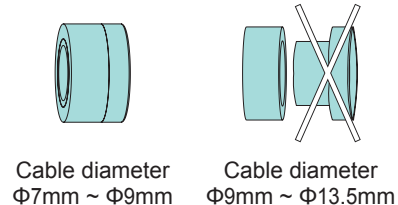
- Screw type connection method; soldering or special tools are not required.
- Screwdriver flathead tip width of 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB389E dimensions

■ DXF/DWG/PDF drawings available on our website.



Sealing insert



Cable diameter $\Phi 7\text{mm} \sim \Phi 9\text{mm}$ Cable diameter $\Phi 9\text{mm} \sim \Phi 13.5\text{mm}$

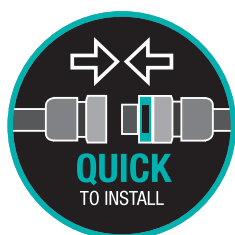
- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	Cable side / Panel mount side	Cable range	Number of poles	Mounting thickness (mm)
THB389E-4P-SP	Socket / Plug	$\Phi 7.0 \sim \Phi 13.5$	4P	1 ~ 3
THB389E-4P-PS	Plug / Socket	$\Phi 7.0 \sim \Phi 13.5$	4P	1 ~ 3
THB389E-5P-SP	Socket / Plug	$\Phi 7.0 \sim \Phi 13.5$	5P	1 ~ 3
THB389E-5P-PS	Plug / Socket	$\Phi 7.0 \sim \Phi 13.5$	5P	1 ~ 3

THB381 series

IP68 SNAP-LOCK MICRO CONNECTOR

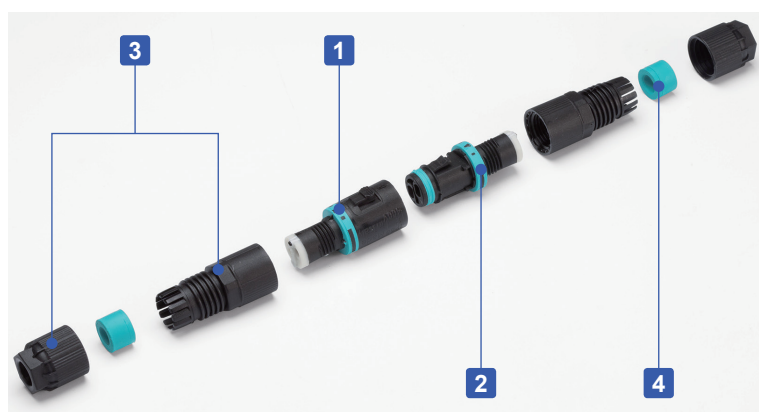


- IP68 snap-lock micro connector of just 14mm in diameter.
- Easy connection / disconnection by simply snapping it to lock, and pulling while pressing the tab to release.
- Plug-socket connector type consisting of the plug side (male) and socket side (female).



Technical Data

Protection class : IP68 3bar/1h (1 hour / 30m depth)
 Operating temperature : -40°C ~ +125°C
 EN61984 compliant.



Specifications

THB381-2P-7 • THB381-2P-8

Rated voltage	AC500V (12V ~ 60V DC)
Rated current	10A AC/DC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

THB381-3P-7 • THB381-3P-8

Rated voltage	AC500V
Rated current	10A AC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Terminal sequence

Plug side (Male)



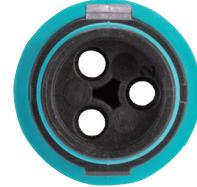
THB381-2P-□



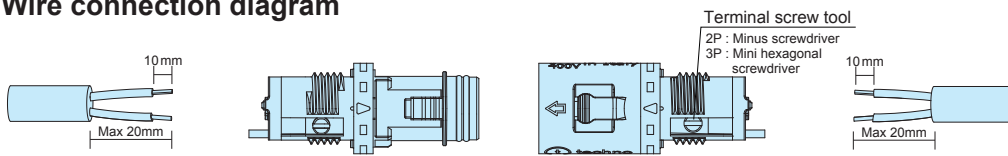
THB381-3P-□



Socket side (Female)



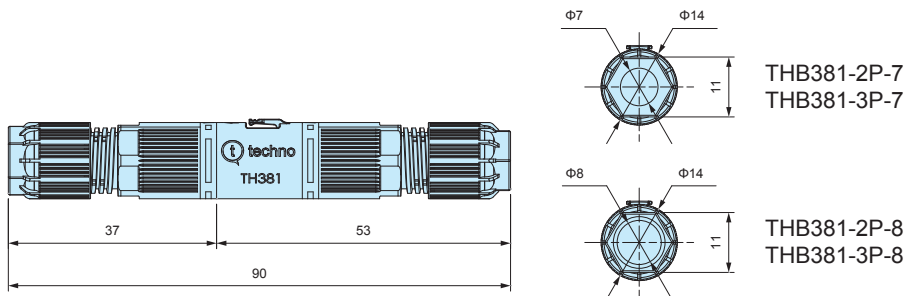
Wire connection diagram



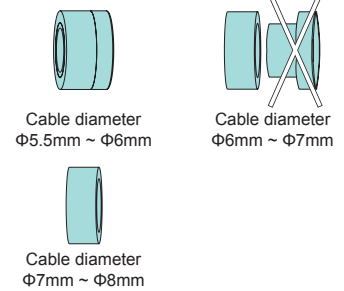
- Screw type connection method; soldering or special tools are not required.
- For 2P models, use a flathead (minus) screwdriver of tip width 3mm.
For 3P models, use a hexagonal screwdriver (tip width of 0.9mm width across flats).
- Wire connection diagram above is for 2P models.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB381 dimensions

- DXF/DWG/PDF drawings available on our website.



Sealing insert



Product no. / Details

Product no.	Cable range	Number of poles
THB381-2P-7	Φ5.5 ~ Φ7.0	2P
THB381-3P-7	Φ5.5 ~ Φ7.0	3P
THB381-2P-8	Φ7.0 ~ Φ8.0	2P
THB381-3P-8	Φ7.0 ~ Φ8.0	3P

- Applicable cable size range can be expanded by removing the inner sealing insert.

Accessories (Optional parts)



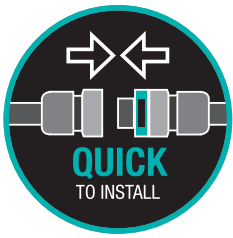
Sealing insert
See page Tool-2



Exclusive tightening tool
See page Tool-2



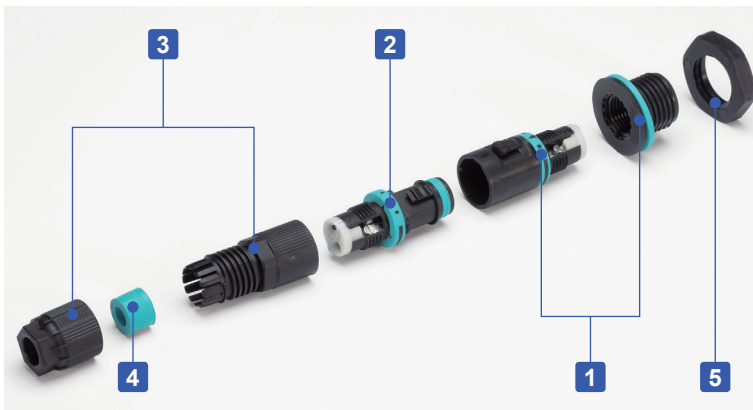
Mini hexagonal screwdriver
See page Tool-2

THB381E series**IP68 SNAP-LOCK PANEL-MOUNT MICRO CONNECTOR**

- IP68 snap-lock panel-mount micro connector of just 14mm in diameter.
- Easy connection / disconnection by simply snapping it to lock, and pulling while pressing the tab to release.
- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).

**Technical Data**

Protection class : IP68 3bar/1h (1 hour / 30m depth)
 Operating temperature : -40°C ~ +125°C
 EN61984 compliant.

**Specifications**

THB381E-2P-7 • THB381E-2P-8

Rated voltage	AC500V (12V~60V DC)
Rated current	10A AC/DC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

THB381E-3P-7 • THB381E-3P-8

Rated voltage	AC500V
Rated current	10A AC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	1	PA66 (UL94V-2)	Black
4	Sealing insert	1	TPE	Green
5	Lock nut	1	PA66 (UL94V-2)	Black

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Terminal sequence

Plug side (Male)



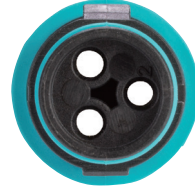
THB381E-2P-□



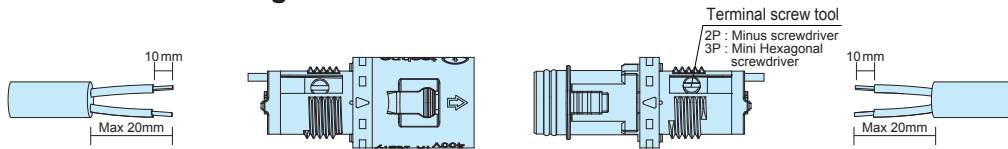
THB381E-3P-□



Socket side(Female)



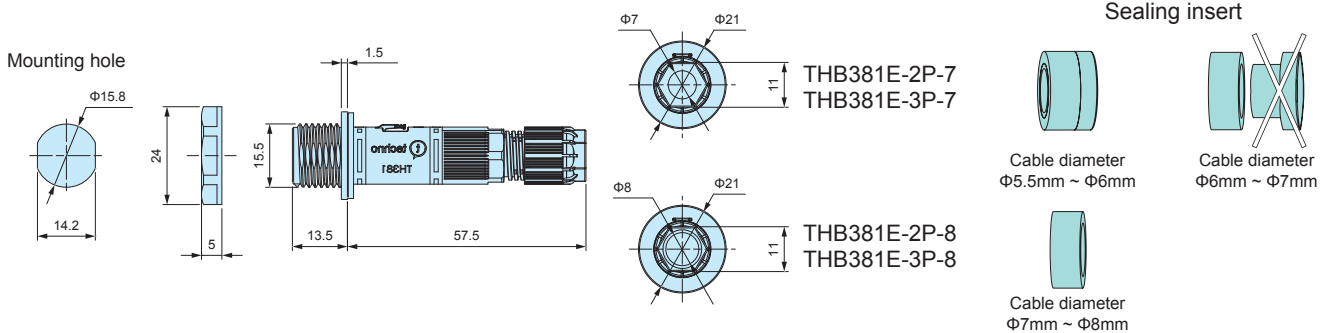
Wire connection diagram



- Screw type connection method; soldering or special tools are not required.
- For 2P models, use a flathead (minus) screwdriver of tip width 3mm.
For 3P models, use a hexagonal screwdriver (tip width of 0.9mm width across flats).
- Wire connection diagram above is for 2P models.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB381E dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	Cable range	Number of poles
THB381E-2P-7	Φ5.5 ~ Φ7.0	2P
THB381E-3P-7	Φ5.5 ~ Φ7.0	3P
THB381E-2P-8	Φ7.0 ~ Φ8.0	2P
THB381E-3P-8	Φ7.0 ~ Φ8.0	3P

- Applicable cable size range can be expanded by removing the inner sealing insert.

Accessories (Optional parts)



Sealing insert
See page Tool-2

Sealing plug • socket cap
See page Cap-2

Exclusive tightening tool
See page Tool-2

Mini hexagonal screwdriver
See page Tool-2

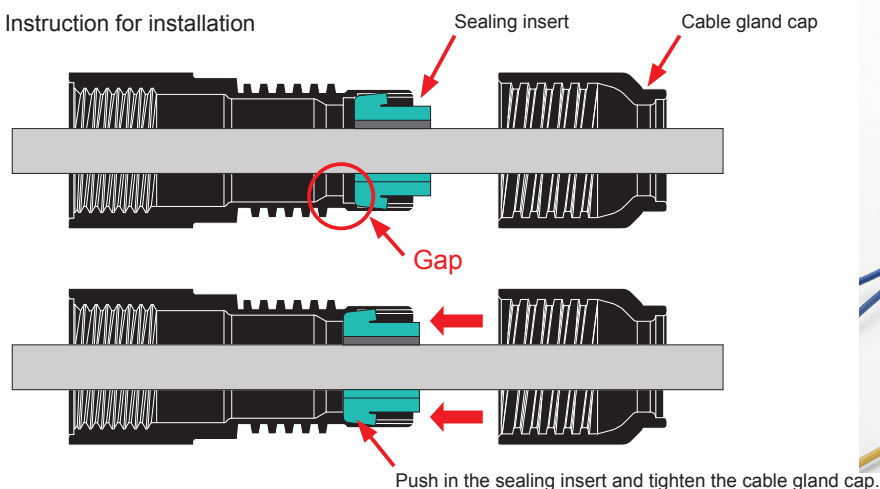
SEALING INSERT for THB381 • 381E

Product no. / Details

Product no.	Appearance	Cable range	Pack of	Material
6000473GT		Φ3.0 ~ Φ5.0mm	10	TPE
6000461GT		Φ1.9 ~ Φ2.5mm	10	TPE
6000520GT		Φ1.9 ~ Φ2.5mm	10	TPE

- Recommended for use with small diameter cables.
- 6000473GT is not suitable for THB381-2P-8, 381-3P-8, 381E-2P-8 and 381E3P-8.
- The outer diameter of 6000461GT and 6000520GT is about 1mm larger. The brim can be rolled up during installation.

Instruction for installation



EXCLUSIVE TIGHTENING TOOL for THB381 • 381E

Product no. / Details

■ PA66GF = Glass fiber filled polyamide 66

Product no.	Suitable models	Material / Color
6000462KC	THB381 • THB381E	PA66GF / Black

- Dedicated locking tool for tightening of the cable gland cap.
- Tighten until the tool slips and spins idly around.



MINI HEXAGONAL SCREWDRIVER for THB381-3P • 381E-3P

- Hexagonal screwdriver with a tip of 0.9mm width across flats.
- For terminal screws on THB381-3P and 381E-3P.



Product no. / Details

Product no.	Suitable models
650000800	THB381-3P • THB381E-3P

SEALING PLUG CAP for THB381E



■ DXF/DWG/PDF drawings available on our website.



Installation example



Installation example on THB381E



■ Protect plug from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.

■ Sealing plug caps are not waterproof.

Product no. / Details

Product no.	Suitable models	Material / Color
6DB057400	THB381E - Plug side	PA66 • Silicone / Black

SEALING SOCKET CAP for THB381E



■ DXF/DWG/PDF drawings available on our website.



Installation example



Installation example on THB381E



■ Protect socket from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.

■ Sealing socket caps are not waterproof.

Product no. / Details

Product no.	Suitable models	Material / Color
6DB057300	THB381E - Socket side	PA66 • Silicone / Black

THB387L series

IP68 UL CERTIFIED MINI PLUG-TYPE RELAY CONNECTOR



- UL2238 / C22.2 No. 182.3 certified products.
- Plug-socket connector type consisting of the plug side (male) and socket side (female).
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 4P and 5P pole models are available.
- For safety reasons, please arrange the connector such that the primary side is female (socket side) and the secondary side is male (plug side).

Technical Data

Protection class : IP68 3bar/3h (3 hour / 30m depth)
Operating temperature : -40°C ~ +125°C
EN61984 compliant.

Specifications

THB387L-4P

Rated voltage	Max AC500V
Rated current	Max 17.5A (EN61984)
	Max 15A (UL2238/C22.2 No. 182.3)
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

THB387L-5P

Rated voltage	Max AC500V
Rated current	Max 17.5A (EN61984)
	Max 10A (UL2238/C22.2 No. 182.3)
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times



Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • PA66 • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • PA66 • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive bracket
See page Tool-6



Sealing plug • socket cap
See page Cap-3



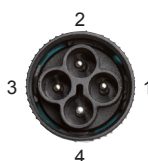
Exclusive tightening tool
See page Tool-5

Terminal sequence

Plug side (Male)



THB387L-4P



THB387L-5P



Socket side (Female)



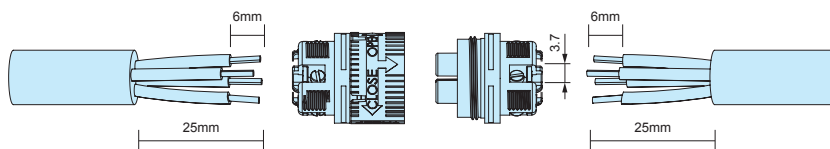
THB387L-4P



THB387L-5P



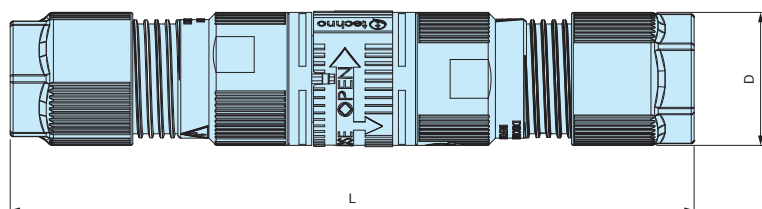
Wire connection diagram



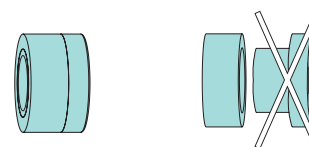
- Screw type connection method; soldering or special tools are not required.
- A flathead (minus) screwdriver of tip width 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB387L dimensions

- DXF/DWG/PDF drawings available on our website.



Sealing insert



Cable diameter
Φ7mm ~ Φ9mm

Cable diameter
Φ9mm ~ Φ13.5mm

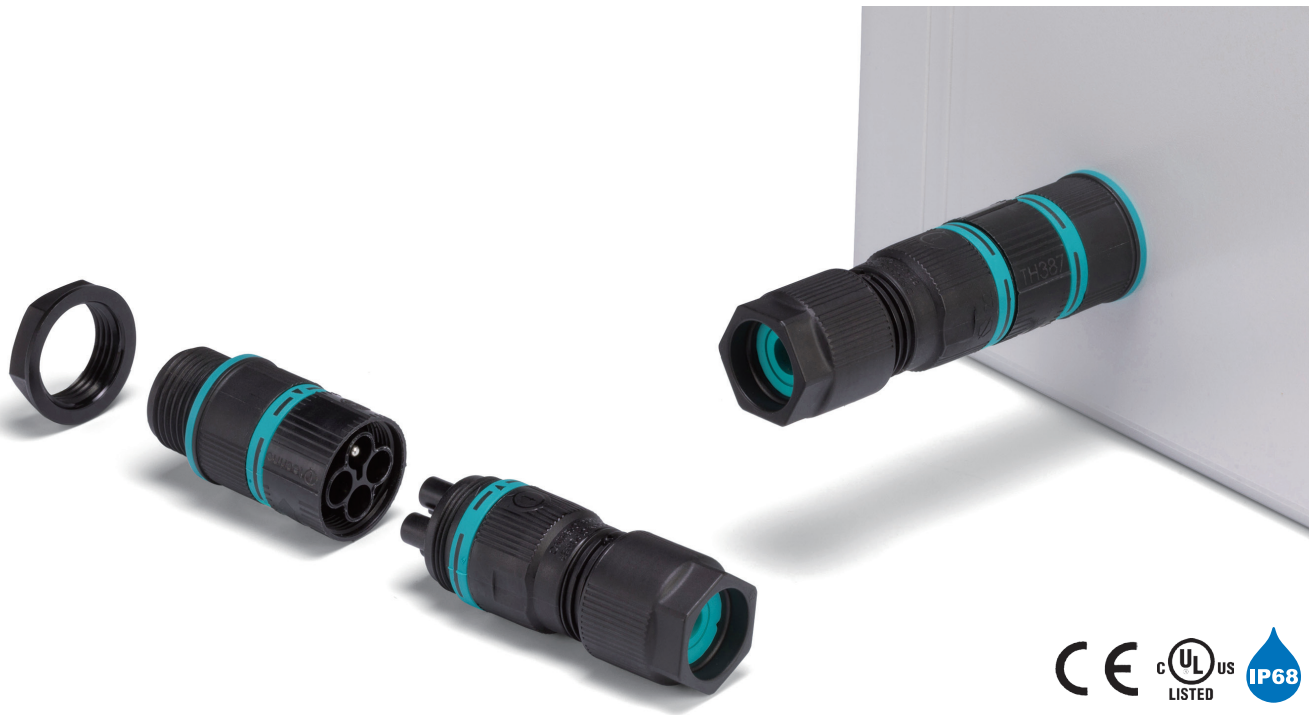
- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	L	D	Cable range	Number of poles
THB387L-4P	118	23	Φ7.0 ~ Φ13.5	4P
THB387L-5P	118	23	Φ7.0 ~ Φ13.5	5P

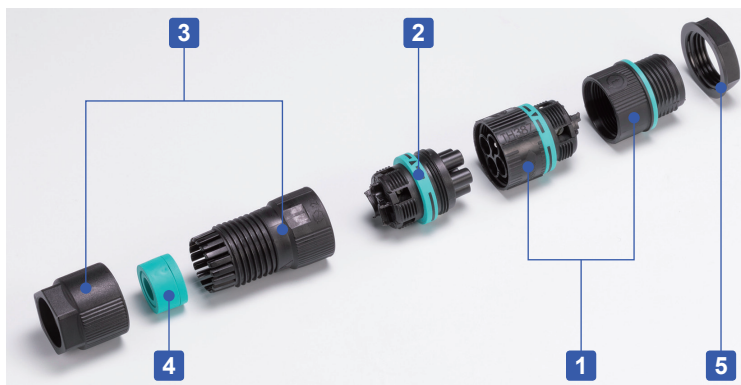
THB387LE series

IP68 UL CERTIFIED MINI PANEL-MOUNT PLUG-TYPE RELAY CONNECTOR



- UL2238 / C22.2 No. 182.3 certified products.
- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).
- Can be attached / detached while installed on panels or enclosures.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 4P and 5P pole models are available.
- For safety reasons, please arrange the connector such that the primary side is female (socket side) and the secondary side is male (plug side).

Technical Data
Protection class : IP68 3bar/3h (3 hour / 30m depth) Operating temperature : -40°C ~ +125°C EN61984 compliant.



Specifications

THB387LE-4P

Rated voltage	Max AC500V
Rated current	Max 17.5A (EN61984) Max 15A (UL2238/C22.2 No. 182.3)
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

THB387LE-5P

Rated voltage	Max AC500V
Rated current	Max 17.5A (EN61984) Max 10A (UL2238/C22.2 No. 182.3)
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • PA66 • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • PA66 • TPE	Black • Green
3	Cable gland	1	PA66 (UL94V-2)	Black
4	Sealing insert	1	TPE	Green
5	Lock nut	1	PA66 (UL94V-2)	Black

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Sealing plug • socket cap
See page Cap-3



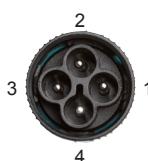
Exclusive tightening tool
See page Tool-5

Terminal sequence

Plug side (Male)



THB387LE-4P



THB387LE-5P



Socket side (Female)



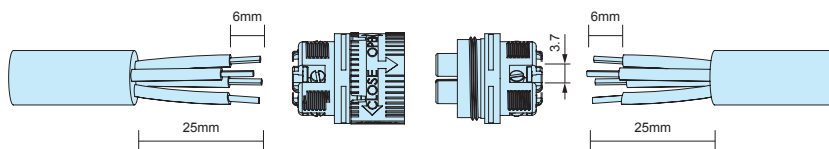
THB387LE-4P



THB387LE-5P



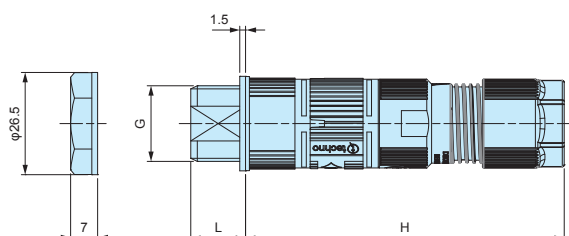
Wire connection diagram



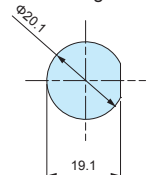
- Screw type connection method; soldering or special tools are not required.
- A flathead (minus) screwdriver of tip width 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB387LE dimensions

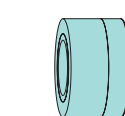
■ DXF/DWG/PDF drawings available on our website.



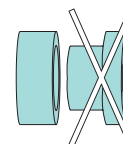
Mounting hole



Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	L	D	G	Cable range	Number of poles
THB387LE-4P-M20	14	82	20	Φ7.0 ~ Φ13.5	4P
THB387LE-5P-M20	14	82	20	Φ7.0 ~ Φ13.5	5P

THB387 series

IP68 PLUG-TYPE RELAY CONNECTOR



- Plug-socket connector type consisting of the plug side (male) and socket side (female).
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 3P, 4P and 5P pole models are available.
- Plug / Socket can be purchased separately. See page THB387-2 for more information.
- For safety reasons, please arrange the connector such that the primary side is female (socket side) and the secondary side is male (plug side).

Technical Data

Protection class :
IP68 3bar/3h (3 hour / 30m depth)
Operating temperature : -40°C ~ +125°C
EN61984 compliant.



THB387-3P • THB387-4P

Rated voltage	Max AC500V
Rated current	Max 17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

THB387-5P

Rated voltage	Max AC500V
Rated current	Max 17.5A
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

Components

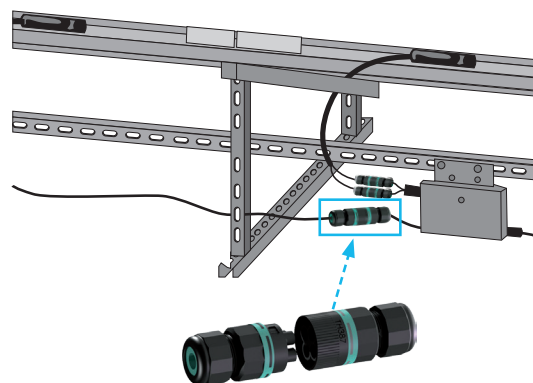
No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

- Suitable for use as power or sensor signal relay of industrial plant, machining instrument, outdoor LED lighting, underground wiring, marine equipment where waterproof is required.

Installation example



THB387-1



Accessories (Optional parts)



Sealing insert
See page Tool-3



Exclusive bracket
See page Tool-6



Sealing plug • socket cap
See page Cap-3



Exclusive tightening tool
See page Tool-5

Terminal sequence

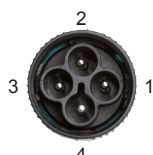
Plug side (Male)



THB387-3P



THB387-4P



THB387-5P



Socket side (Female)



THB387-3P



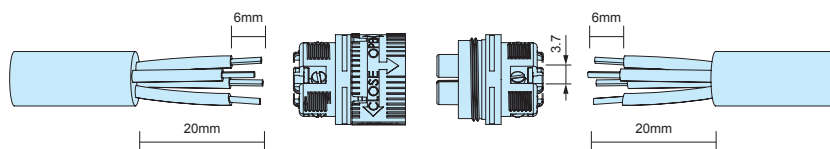
THB387-4P



THB387-5P

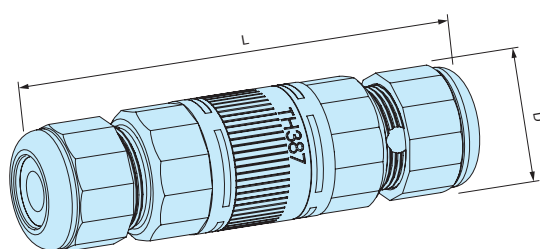


Wire connection diagram

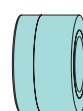


- Screw type connection method; soldering or special tools are not required.
- A flathead (minus) screwdriver of tip width 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

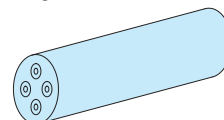
THB387 dimensions



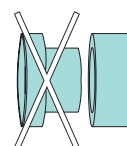
- DXF/DWG/PDF drawings available on our website.



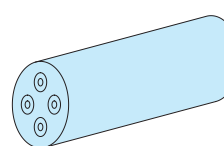
Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Sealing insert



Cable diameter
Φ9mm ~ Φ12mm

- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

- Product includes plug and socket.

Product no.	L	D	Cable range	Number of poles
THB387-3P	85	23	Φ7 ~ Φ12	3P
THB387-4P	85	23	Φ7 ~ Φ12	4P
THB387-5P	85	23	Φ7 ~ Φ12	5P

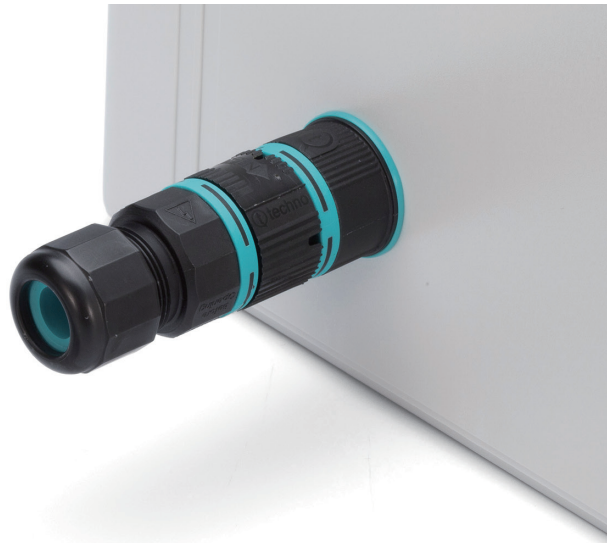
Product no. / Details

- Plug / Socket can be purchased separately.

Product no.	Plug / Socket	Cable range	Number of poles
THB387-3P-P	Plug	Φ7 ~ Φ12	3P
THB387-3P-S	Socket	Φ7 ~ Φ12	3P
THB387-4P-P	Plug	Φ7 ~ Φ12	4P
THB387-4P-S	Socket	Φ7 ~ Φ12	4P
THB387-5P-P	Plug	Φ7 ~ Φ12	5P
THB387-5P-S	Socket	Φ7 ~ Φ12	5P

THB387E series

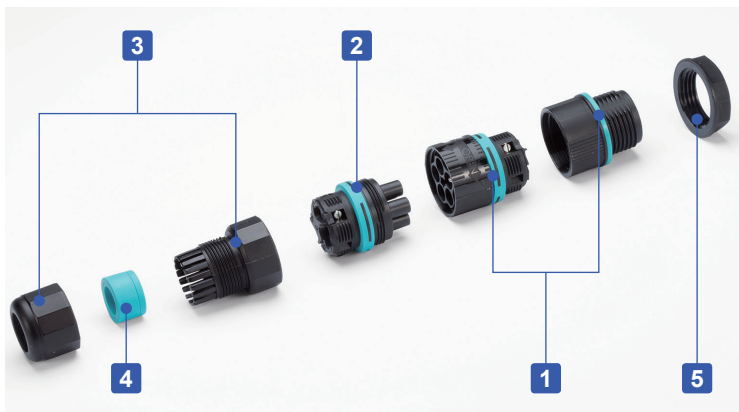
IP68 MINI PANEL-MOUNT PLUG-TYPE RELAY CONNECTOR



- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).
- Can be attached / detached while installed on panels or enclosures.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 3P, 4P and 5P pole models are available.
- Plug / Socket can be purchased separately. See page THB387E-2 for more information.
- For safety reasons, please arrange the connector such that the primary side is female (socket side) and the secondary side is male (plug side).

Technical Data

Protection class :
IP68 3bar/3h (3 hour / 30m depth)
Operating temperature : -40°C ~ +125°C
EN61984 compliant.



THB387E-3P • THB387E-4P

Rated voltage	Max AC500V
Rated current	Max 17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

THB387E-5P

Rated voltage	Max AC500V
Rated current	Max 17.5A
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	1	PA66 (UL94V-2)	Black
4	Sealing insert	1	TPE	Green
5	Lock nut	1	PA66 (UL94V-2)	Black

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-3



Sealing plug • socket cap
See page Cap-3



Exclusive tightening tool
See page Tool-5

Terminal sequence

Plug side (Male)



THB387E-3P



THB387E-4P



THB387E-5P



Socket side (Female)



THB387E-3P



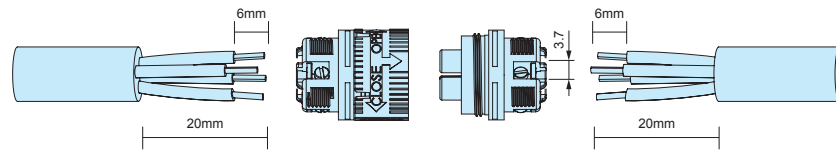
THB387E-4P



THB387E-5P



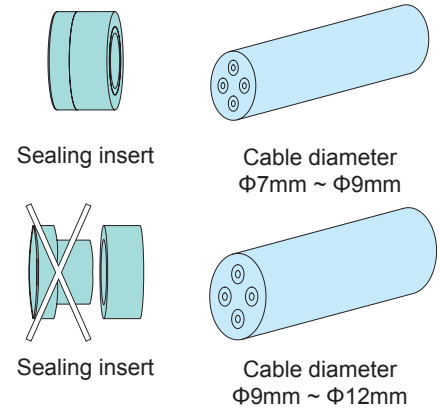
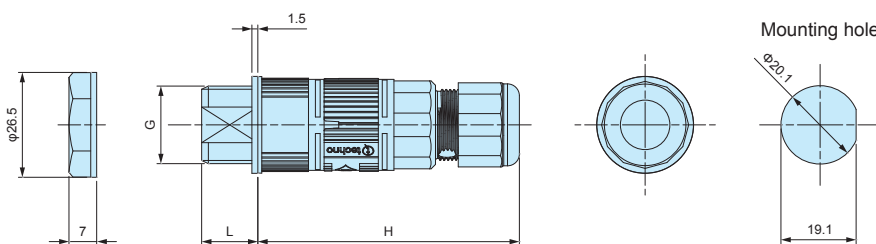
Wire connection diagram



- Screw type connection method; soldering or special tools are not required.
- A flathead (minus) screwdriver of tip width 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB387 dimensions

- DXF/DWG/PDF drawings available on our website.



- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

- Product includes plug and socket.

Product no.	L	H	G	Cable range	Maximum mounting thickness (mm)	Number of poles
THB387E-3P-M20	14	66.5	20	Φ7 ~ Φ12	6.5	3P
THB387E-4P-M20	14	66.5	20	Φ7 ~ Φ12	6.5	4P
THB387E-5P-M20	14	66.5	20	Φ7 ~ Φ12	6.5	5P

Product no. / Details

- Plug / Socket can be purchased separately.

Product no.	Plug / Socket	Cable range	Number of poles
THB387E-3P-M20-P	Plug	—	3P
THB387 -3P-S	Socket	Φ7 ~ Φ12	3P
THB387E-4P-M20-P	Plug	—	4P
THB387 -4P-S	Socket	Φ7 ~ Φ12	4P
THB387E-5P-M20-P	Plug	—	5P
THB387 -5P-S	Socket	Φ7 ~ Φ12	5P

SEALING INSERT for THB387 • 387E • 391 • 392



Installation example

- Optional sealing insert for THB387, 387E, 391 and 392 series.
- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000347LA cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.
- Not applicable to be used for THA209, THB381, 381E, 387L, 387LE, 389, 389E, 390, 399Y, 400, 402T, 405, 406 series.

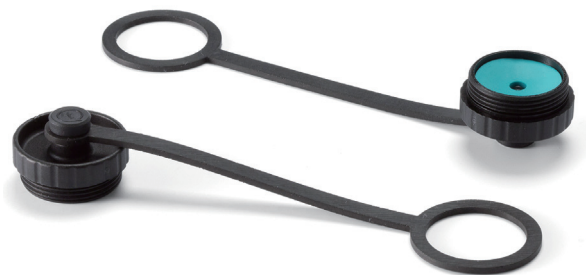
Product no. / Details

Product no.	Appearance	Cable range	Material	Pack of
6000338GT		Blind insert without hole	TPE	10
6000377GT	 	Φ2.5 ~ Φ4.0mm	TPE • POM	10 each
6000339GT	 	Φ5.0 ~ Φ7.0mm	TPE • POM	10 each
6000340GT	 	Φ3.0 ~ Φ4.5mm	TPE • POM	10 each
6000341GT		Φ4.5 ~ Φ6.0mm	TPE	10
6000342GT		Φ2.5 ~ Φ4.5mm	TPE	10
6000343GT		Φ2.5 ~ Φ4.0mm	TPE	10
6000347LA		Cap for cables sized Φ7.0mm or smaller	POM	10

- 6000347LA cap cannot be used with 6000341GT and 6000343GT.

SEALING PLUG CAP for THB387 • 387E • 387L • 387LE

■ DXF/DWG/PDF drawings available on our website.



Installation example on THB387



Installation example on THB387E



- Protect plug from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.
- Sealing plug caps are not waterproof.

Product no. / Details

Product no.	Suitable models
6DB0219M20	THB387 • 387E • 387L • 387LE - Plug side

SEALING SOCKET CAP for THB387 • 387E • 387L • 387LE



Installation example on THB387



Installation example on THB387E



- Protect socket from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.
- Sealing socket caps are not waterproof.

Product no. / Details

Product no.	Suitable models
6DB0234M20	THB387 • 387E • 387L • 387LE - Socket side

THB405 series

IP68 PLUG-TYPE RELAY CONNECTOR



- Plug-socket connector type consisting of the plug side (male) and socket side (female).
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 6P and 8P pole models are available.
- For safety reasons, please arrange the connector such that the primary side is female (socket side) and the secondary side is male (plug side).

Technical Data
Protection class : IP68 1bar/1h (1 hour / 10m depth) Operating temperature : -40°C ~ +125°C EN61984 compliant.



THB405-6P

Rated voltage	Max AC400V
Rated current	Max 17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	6kV
Number of insertion/extraction	1,000 times

THB405-8P

Rated voltage	Max AC400V (DC60V)
Rated current	Max 10A AC/DC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	2.5kV
Number of insertion/extraction	1,000 times

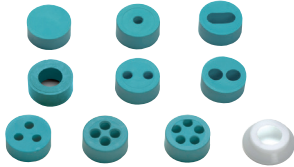
Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • PA66 (UL94V-2) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • PA66 (UL94V-2) • TPE	Black • Green
3	Cap	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive bracket
See page Tool-6



Sealing plug • socket cap
See page Cap-4



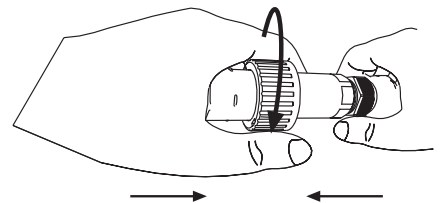
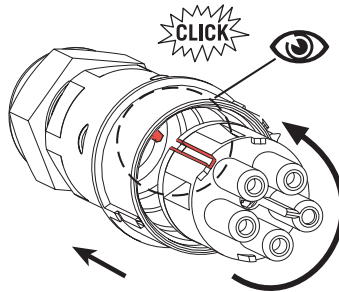
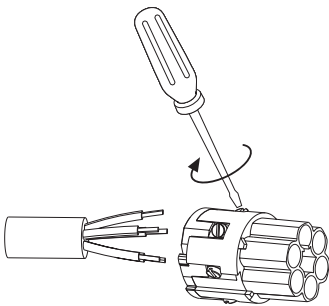
Exclusive tightening tool
See page Tool-4



Exclusive terminal installation tool
See page Tool-4

How to connect

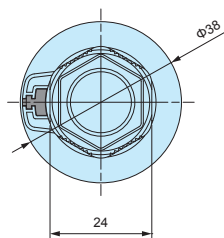
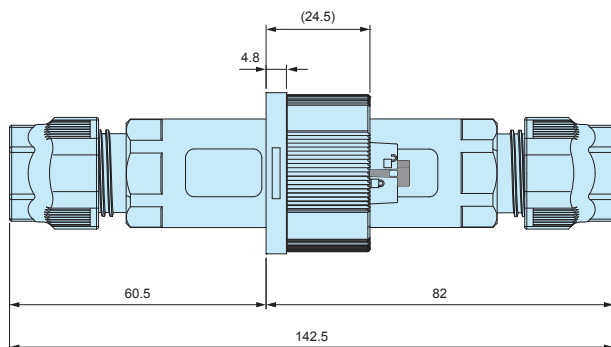
1. Connect the wires to the terminal block using a flathead (minus) screwdriver.
2. Align the terminal block with the groove and insert it into the plug / socket. Turn / twist to lock.
3. Ensure that the plug and socket are firmly attached before turning the retaining ring to secure.



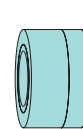
- Screw type connection method; soldering or special tools are not required.
- A flathead (minus) screwdriver of tip width 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB405 dimensions

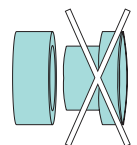
- DXF/DWG/PDF drawings available on our website.



Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	Cable range	Number of poles
THB405-6P	Φ7.0 ~ Φ13.5	6P
THB405-8P	Φ7.0 ~ Φ13.5	8P

THB406 series**IP68 PANEL-MOUNT PLUG-TYPE RELAY CONNECTOR**

- IP68 panel-mount plug-type connector for installation on panels or boxes.
- Set consisting of a plug (male) and socket (female).
- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).
- 3P, 6P and 8P pole models are available.
- THB406-3P is UL2238 / C22.2 No. 182.3 compliant product.
- For safety reasons, please arrange the connector such that the primary side is female (socket side) and the secondary side is male (plug side).

Technical Data
Protection class : IP68 1bar/1h (1 hour / 10m depth) Operating temperature : -40°C ~ +125°C EN61984 compliant.



THB406-3P



Rated voltage	Max AC400V
Rated current	Max 25A (EN61984) Max 20A (UL2238/C22.2No. 182.3)
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	1,000 times

THB406-6P



Rated voltage	Max AC400V
Rated current	Max 17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²
Impulse withstand voltage	6kV
Number of insertion/extraction	1,000 times

THB406-8P



Rated voltage	Max AC400V (DC60V)
Rated current	Max 10A AC/DC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	2.5kV
Number of insertion/extraction	1,000 times

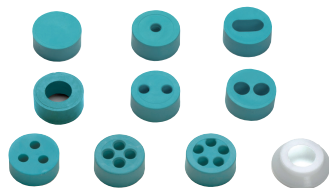
Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • PA66 (UL94V-2) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • PA66 (UL94V-2) • TPE	Black • Green
3	Cap	1	PA66 (UL94V-2)	Black
4	Sealing insert	1	TPE	Green
5	Lock nut	1	PA66 (UL94V-2)	Black

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive tightening tool
See page Tool-5



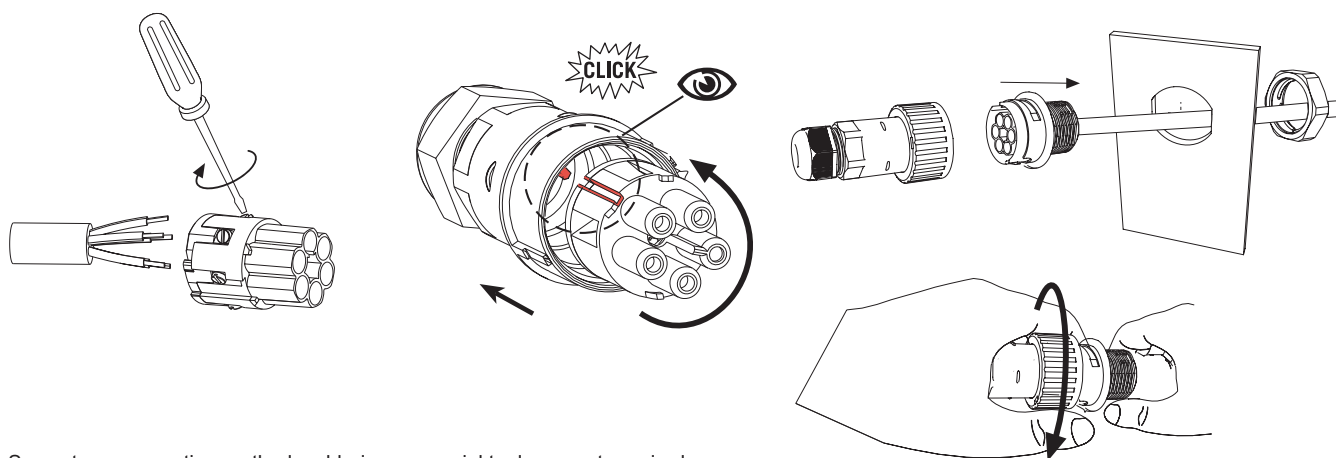
Sealing plug • socket cap
See page Cap-4



Exclusive terminal installation tool
See page Tool-4

How to connect

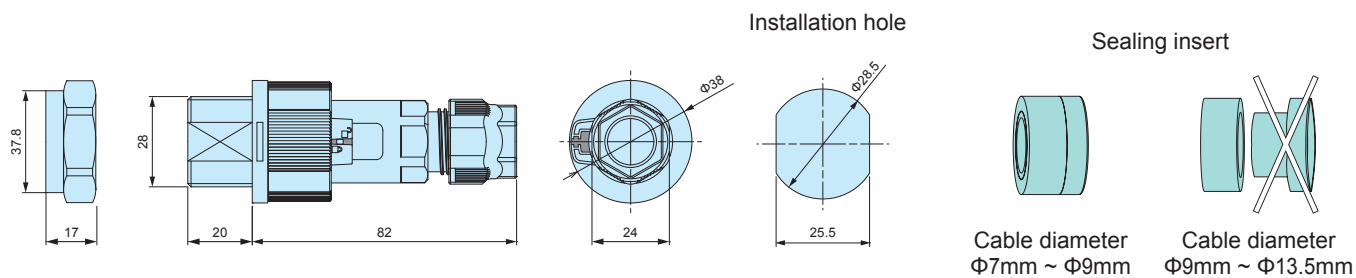
1. Connect the wires to the terminal block using a flathead (minus) screwdriver.
2. Align the terminal block with the groove and insert it into the plug / socket. Turn / twist to lock.
3. Insert the plug into the mounting hole and secure with the nut. Insert the socket into the plug and turn the retaining ring to secure.



- Screw type connection method; soldering or special tools are not required.
- A flathead (minus) screwdriver of tip width 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB406 dimensions

■ DXF/DWG/PDF drawings available on our website.



- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	Cable range	Maximum mounting thickness (mm)	Number of poles
THB406-3P	Φ7.0 ~ Φ13.5	10	3P
THB406-6P	Φ7.0 ~ Φ13.5	10	6P
THB406-8P	Φ7.0 ~ Φ13.5	10	8P

SEALING SOCKET CAP for THB405 • 406



■ DXF/DWG/PDF drawings available on our website.



- Protect socket from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.
- Sealing socket caps are not waterproof.



Product no. / Details

Product no.	Suitable models
6DB058000	THB405 • THB406 - Socket side

SEALING PLUG CAP for THB405 • 406

■ DXF/DWG/PDF drawings available on our website.



- Protect plug from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.
- Sealing plug caps are not waterproof.



Product no. / Details

Product no.	Suitable models
6DB00900C	THB405 • THB406 - Plug side

EXCLUSIVE TERMINAL INSTALLATION TOOL for THB405•406



- Terminal installation tool for 8P mode.
- Insert terminal into the tool and rotate it counterclockwise until a clicking sound can be heard.
- Not applicable for THB405-6P, 406-3P, and 406-6P models.

How to use



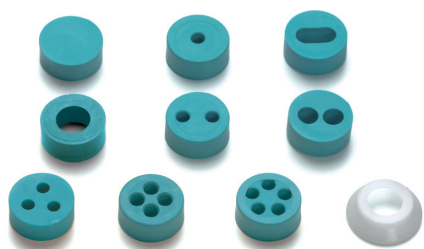
Insert terminal installation tool.



Rotate it counterclockwise to secure.

Product no. / Details			■ PA66GF = Glass fiber filled polyamide 66
Product no.	Material	Suitable models	
600052600	PA66GF	THB405-8P • THB406-8P	

SEALING INSERT for THA • THB • THS



- Optional sealing insert for THA209, THB387L, 387LE, 389, 389E, 390, 399Y, 400, 402T, 405, 406, THS389 and 389E.

(Not applicable to be used for THB381, 381E, 387, 387E, 391 and 392 series.)

- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000087LF cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.

Product no. / Details

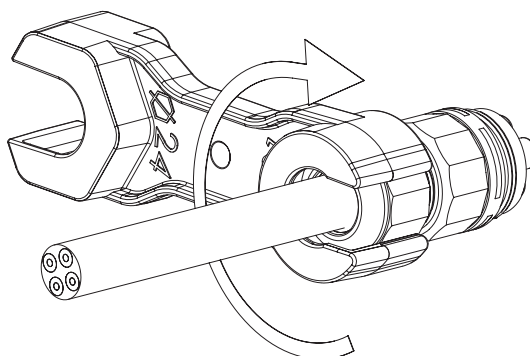
Product no.	Appearance	Cable range	Material	Pack of
600013700		Blind insert without hole	TPE	10
600012700		11mm × 5.5mm	TPE	10
600037000		Φ4.0 ~ Φ6.5mm	TPE • POM	10 each
604001100		Φ5.5 ~ Φ9.5mm Use fixing cap for cables sized Φ7.0mm or smaller	TPE • POM	10 each
600013600		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600012500		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600030600		Φ4.5 ~ Φ6.0mm	TPE	10
600012600		Φ2.0 ~ Φ4.0mm	TPE	10
600018200		Φ2.0 ~ Φ3.5mm	TPE	10
600022400		Φ2.5 ~ Φ3.5mm	TPE	10
6000087LF		Cap for cables sized Φ7.0mm or smaller	POM	10

- 6000087LF cap cannot be used with 600030600 and 600022400

EXCLUSIVE TIGHTENING TOOL for THB • THS



How to use



- Dedicated locking tool for tightening of the cable gland cap.

Product no. / Details

- PA66GF = Glass fiber filled polyamide 66

Product no.	Material / Color	Suitable models
6000337BC	PA66GF / Black	THB387 • 387E • 387L • 387LE • 389 • 389E • 390 • 390T • 391 • 392 • 399Y • 400 • 402T • 405 • 406 • THS389 • 389E

THB391 series

IP68 COMPACT RELAY CONNECTOR



- IP68 compact relay connector with an integrated cable gland and terminal block structure.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 2P, 3P and 4P pole terminal models are available.



Technical Data

Protection class :
 IP68 2bar/3h (3hours / 20m depth)
 Operating temperature : -40°C ~ +125°C
 EN60529, EN60998 compliant

Specifications

Rated voltage	AC450V
Rated current	17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²

Components

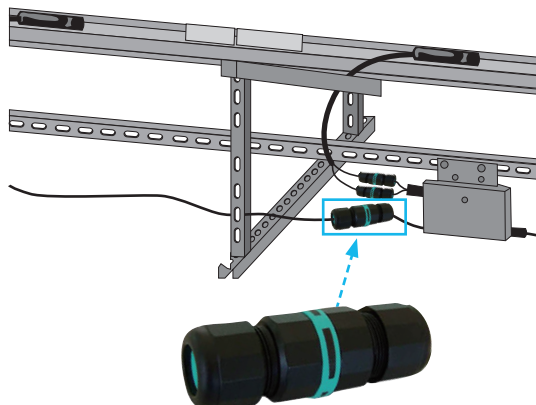
No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Cable gland	2	PA66 (UL94V-2)	Black
3	Sealing insert	2	TPE	Green
-	Terminal	2 ~ 4	Brass	Nickel plated
-	Terminal screw (M3 slotted)	4 ~ 8	Steel	Zinc plated

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

- Suitable for use as power or sensor signal relay of industrial plant, machining instrument, outdoor LED lighting, underground wiring, marine equipment where waterproof is required.

Installation example



Accessories (Optional parts)



Sealing insert
See page Tool-3



Exclusive bracket
See page Tool-6



Exclusive tightening tool
See page Tool-5

How to connect wire



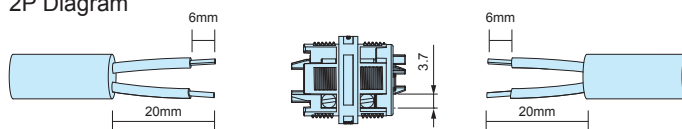
Insert the wires according to the terminal numbers.



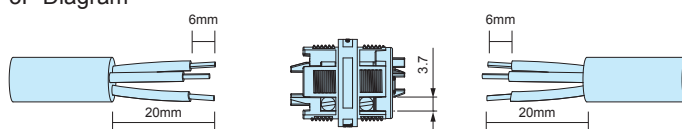
Tighten screws to secure the connection.

- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

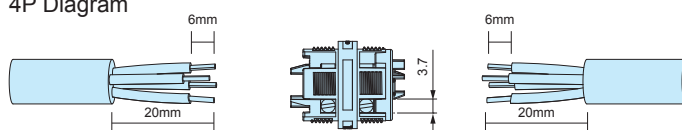
2P Diagram



3P Diagram

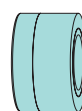
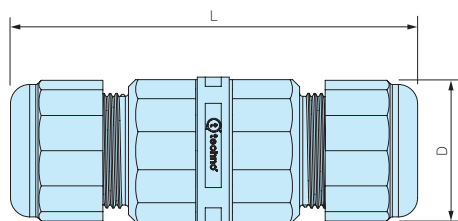


4P Diagram

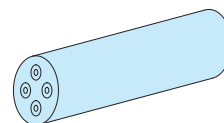


THB391 dimensions

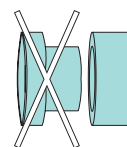
- DXF/DWG/PDF drawings available on our website.



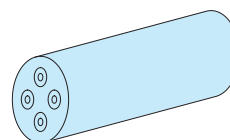
Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Sealing insert



Cable diameter
Φ9mm ~ Φ12mm

- Applicable cable size range can be expanded by removing the inner sealing insert.

Product no. / Details

Product no.	L	D	Cable range	Number of poles
THB391-2P	68	23	Φ7 ~ Φ12	2P
THB391-3P	68	23	Φ7 ~ Φ12	3P
THB391-4P	68	23	Φ7 ~ Φ12	4P

THB392 series**IP68 H-SHAPED COMPACT RELAY CONNECTOR**

- IP68 4 ways compact relay connector with an integrated cable gland and terminal block structure.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 4P x 4 common pole terminal model.

Technical Data

Protection class :
 IP68 3bar/2h (2hours / 30m depth)
 Operating temperature : -40°C ~ +125°C
 EN60529, EN60998 compliant

**Specifications**

Rated voltage	AC450V
Rated current	17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²

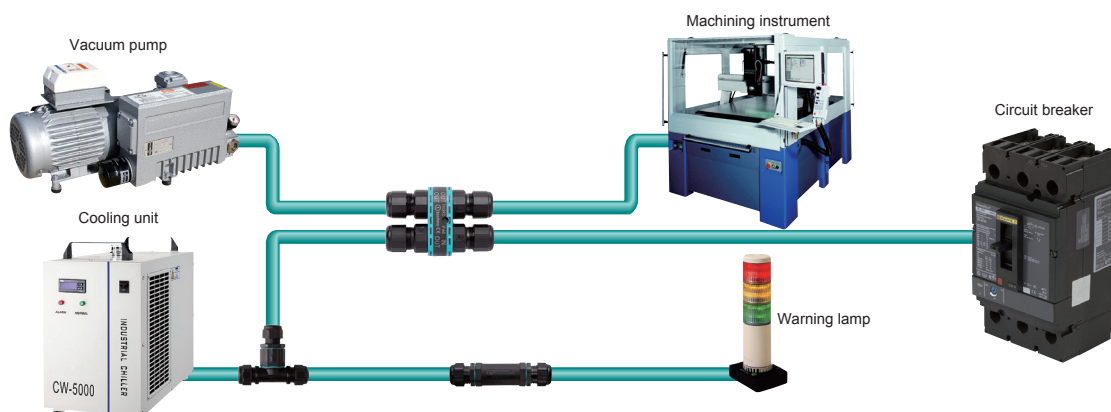
Components

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Cable gland	4	PA66 (UL94V-2)	Black
3	Sealing insert	4	TPE	Green
-	Terminal	4P x 4	Brass	Nickel plated
-	Terminal screw (M3 slotted)	16	Steel	Zinc plated

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

- Suitable for use as power or sensor signal relay of industrial plant, machining instrument, outdoor LED lighting, underground wiring, marine equipment where waterproof is required.

Installation example

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive tightening tool
See page Tool-5

How to connect wire



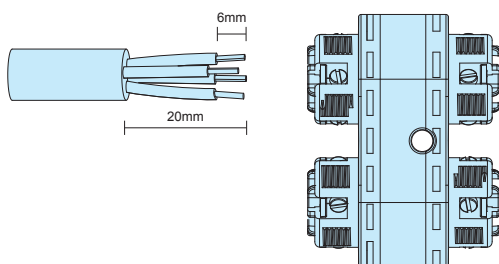
Insert the wires according to the terminal numbers.

- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

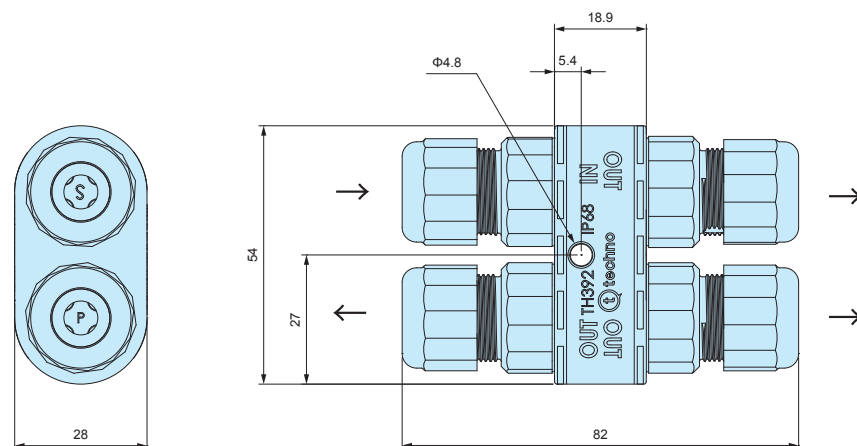


Tighten screws to secure the connection.

Terminal connection diagram



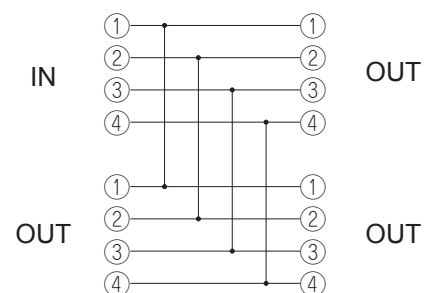
THB392 dimensions



- DXF/DWG/PDF drawings available on our website.

- IN and OUT directions are fixed.
Confirm direction before use.

Diagram



Product no. / Details

Product no.	Cable range	Number of poles
THB392-4P	Φ7 ~ Φ12	4P×4

SEALING INSERT for THB387 • 387E • 391 • 392



- Optional sealing insert for THB387, 387E, 391 and 392 series.
- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000347LA cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.
- Not applicable to be used for THA209, THB381, 381E, 387L, 387LE, 389, 389E, 390, 399Y, 400, 402T, 405, 406 series.

Product no. / Details

Product no.	Appearance	Cable range	Material	Pack of
6000338GT		Blind insert without hole	TPE	10
6000377GT	 	Φ2.5 ~ Φ4.0mm	TPE • POM	10 each
6000339GT	 	Φ5.0 ~ Φ7.0mm	TPE • POM	10 each
6000340GT	 	Φ3.0 ~ Φ4.5mm	TPE • POM	10 each
6000341GT		Φ4.5 ~ Φ6.0mm	TPE	10
6000342GT		Φ2.5 ~ Φ4.5mm	TPE	10
6000343GT		Φ2.5 ~ Φ4.0mm	TPE	10
6000347LA		Cap for cables sized Φ7.0mm or smaller	POM	10

- 6000347LA cap cannot be used with 6000341GT and 6000343GT.

THB390•400 series

IP68 RELAY CONNECTOR

IP68

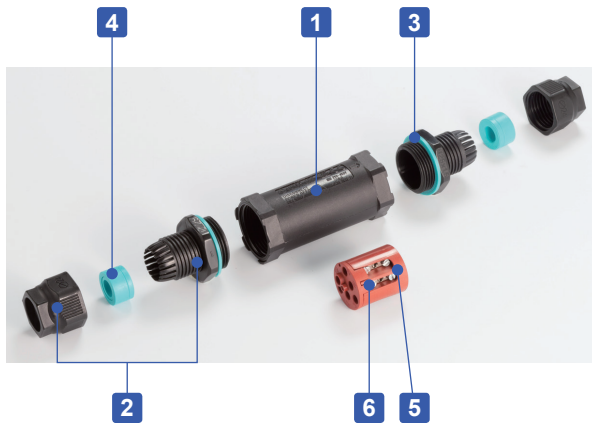


- IP68 relay connector with screw type wiring connection for easy installation and removal.
- 3P, 6P, 2WP and 3WP pole models and no terminal model are available.
- No terminal model can be used to protect the connector.
- Possible to adopt wide cable range with the optional sealing insert.
(See page Sealing insert - 2 for the details.)
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.



Technical Data

Protection class :
IP68 5bar/1h (1 hour / 50m depth)
Operating temperature : -40°C ~ +125°C
EN60529 : 1991+A1 : 2000,
EN60998-1 : 2004, EN60998-2-1 : 2004
compliant



Specifications

3P • 4P • 6P models

Rated voltage	AC450V
Rated current	24A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²

2WP • 3WP models

Rated voltage	AC250V
Rated current	32A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²

D4P model

Rated voltage	AC750V
Rated current	41A
Applicable wire	Stranded wire 2.5mm ² ~ 6.0mm ²

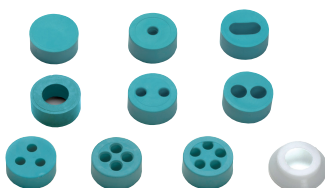
Components

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-0)	Black
2	Cable gland	2	PA66 (Φ7 ~ Φ13.5, Φ13.5 ~ Φ15.5, Φ16 ~ Φ20) • PA6 (Φ8 ~ Φ17)	Black
3	Gasket	2	Silicone	Green
4	Sealing insert	2	TPE (Φ7 ~ Φ13.5, Φ13.5 ~ Φ15.5, Φ16 ~ Φ20) • NBR (Φ8 ~ Φ17)	Green • Black
5	Terminal block	1	PA66GF (UL94V-0)	Black • Brown
6	Terminal screw (M3 slotted)	6 ~ 12	Steel	Zinc plated

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive bracket
See page Tool-6



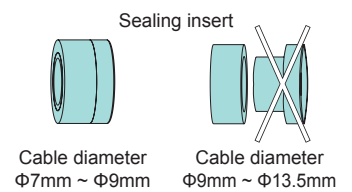
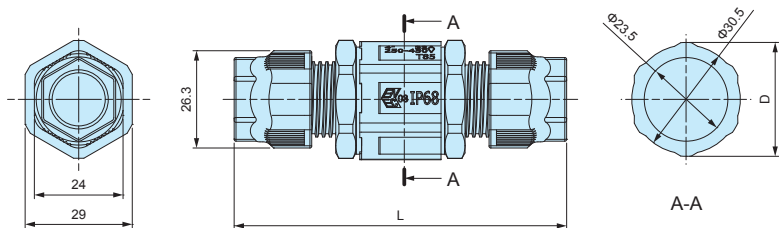
Exclusive tightening tool
See page Tool-5

Product no. / Details

Product no.	L	D	Cable range	Number of poles
THB390-3P-13	90	32	$\Phi 7 \sim \Phi 13.5$	3P
THB400-N-13	134	35	$\Phi 7 \sim \Phi 13.5$	None
THB400-4P-13	134	35	$\Phi 7 \sim \Phi 13.5$	4P
THB400-6P-13	134	35	$\Phi 7 \sim \Phi 13.5$	6P
THB400-2WP-13	134	35	$\Phi 7 \sim \Phi 13.5$	2WP
THB400-3WP-13	134	35	$\Phi 7 \sim \Phi 13.5$	3WP
THB400-D4P-13	134	35	$\Phi 7 \sim \Phi 13.5$	D4P
THB400-N-17	137	35	$\Phi 8 \sim \Phi 17$	None
THB400-4P-17	137	35	$\Phi 8 \sim \Phi 17$	4P
THB400-6P-17	137	35	$\Phi 8 \sim \Phi 17$	6P
THB400-D4P-15	134	37	$\Phi 13.5 \sim \Phi 15.5$	D4P
THB400-N-20	134	37	$\Phi 16 \sim \Phi 20$	None
THB400-D4P-20	134	37	$\Phi 16 \sim \Phi 20$	D4P

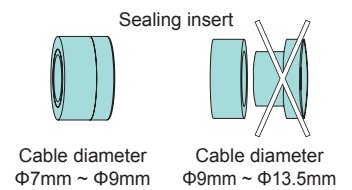
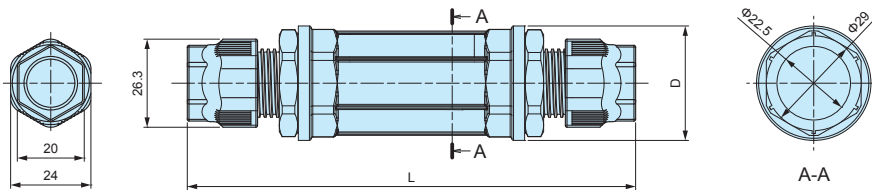
THB390 • 400 dimensions

■ DXF/DWG/PDF drawings available on our website.



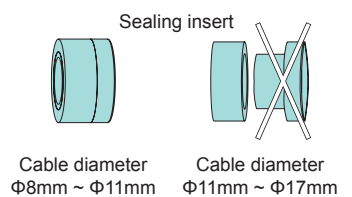
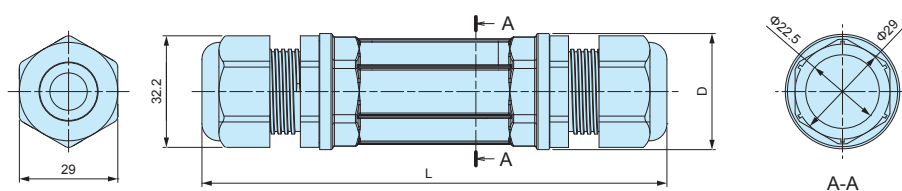
■ Applicable cable size range can be expanded by removing the inner sealing insert.

Product no.	Cable range	Number of poles
THB390-3P-13	$\Phi 7 \sim \Phi 13.5$	3P



■ Applicable cable size range can be expanded by removing the inner sealing insert.

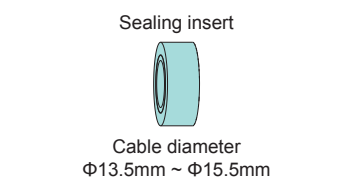
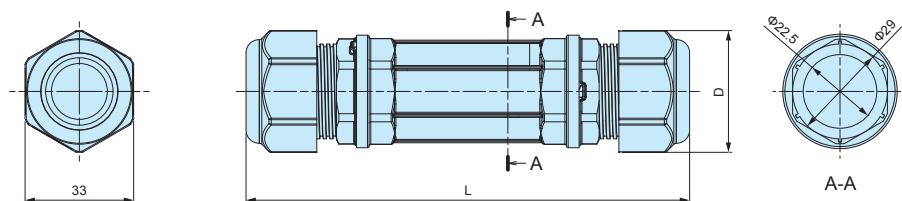
Product no.	Cable range	Number of poles
THB400-□-13	$\Phi 7 \sim \Phi 13.5$	N (No terminal) • 4P • 6P • 2WP • 3WP • D4P



■ Optional sealing insert and exclusive tightening tool is not usable for this model.

■ Applicable cable size range can be expanded by removing the inner sealing insert.

Product no.	Cable range	Number of poles
THB400-□-17	$\Phi 8 \sim \Phi 17$	N (No terminal) • 4P • 6P



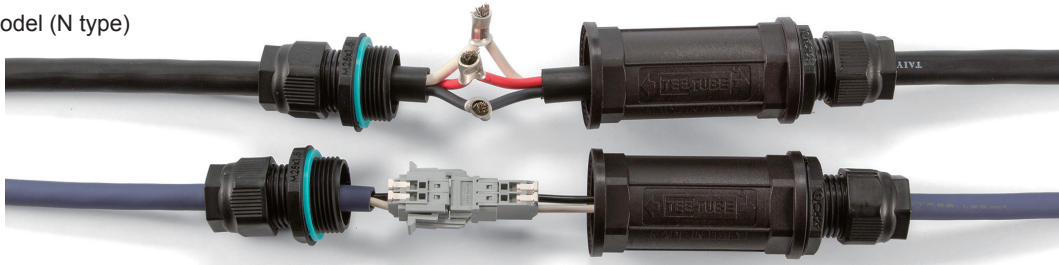
■ Optional sealing insert and exclusive tightening tool is not usable for this model.

■ Applicable cable size range can be expanded by removing the inner sealing insert.

Product no.	Cable range	Number of poles
THB400-D4P-15	$\Phi 13.5 \sim \Phi 15.5$	D4P
THB400-□-20	$\Phi 16 \sim \Phi 20$	N (No terminal) • 4P

Terminal block diagram

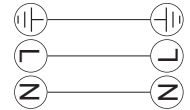
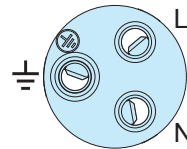
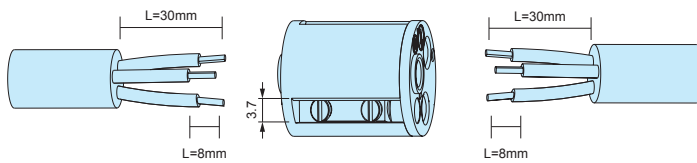
No Terminal Model (N type)



- No terminal model.
- Use when utilizing other terminals or connecting without terminal.

3P Terminal

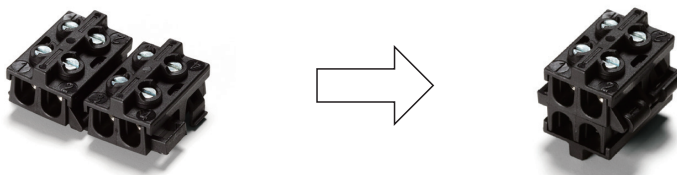
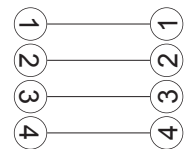
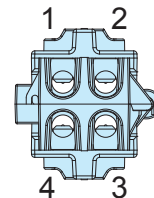
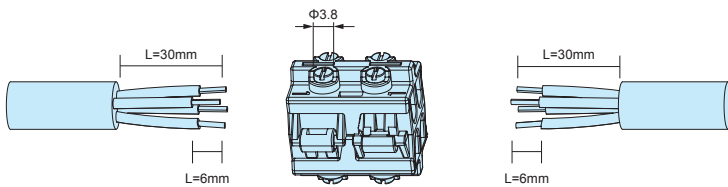
Wire Connection Diagram



- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

4P Terminal

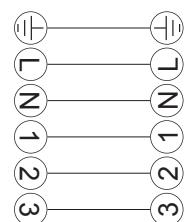
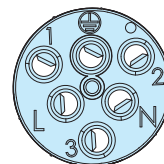
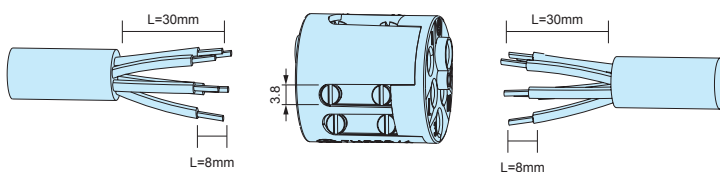
Wire Connection Diagram



- A hinged structure on the 4P terminal block allows wiring to be performed easily.
- Easily closed for installation.
- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

6P Cable diameter

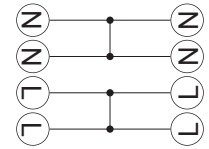
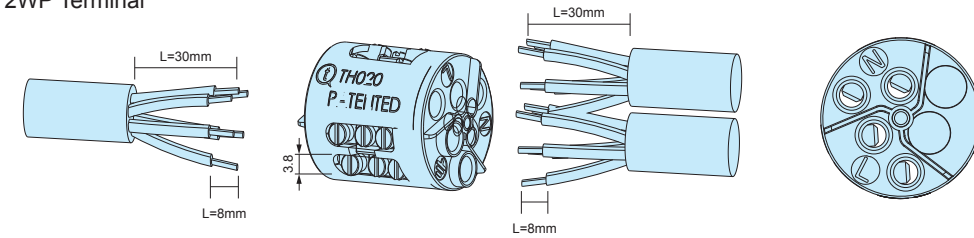
Cable diameter



- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

2WP Terminal

Wire Connection Diagram



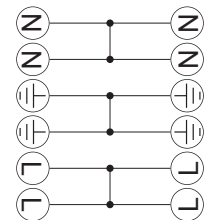
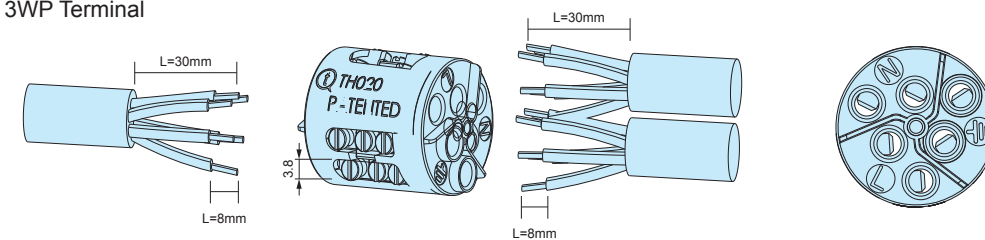
Two poles are divided into two.
(Each is common)



- Wiring can be branched.
Use optional sealing insert for branch wiring.(See page Sealing Insert-1 for optional sealing inserts.)
- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

3WP Terminal

Wire Connection Diagram



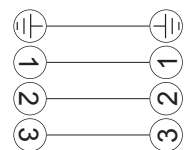
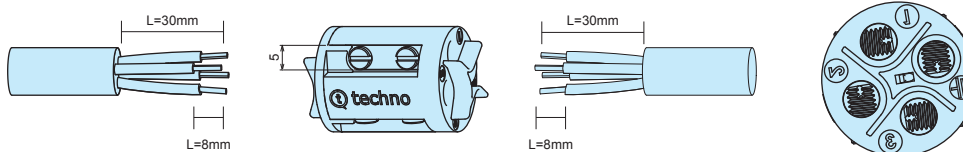
Two poles are divided into three.
(Each is common)



- Wiring can be branched.
Use optional sealing insert for branch wiring.(See page Sealing Insert-1 for optional sealing inserts.)
- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

D4P Terminal

Wire Connection Diagram



- A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

THB390T•402T series

IP68 T-SHAPED RELAY CONNECTOR

IP68

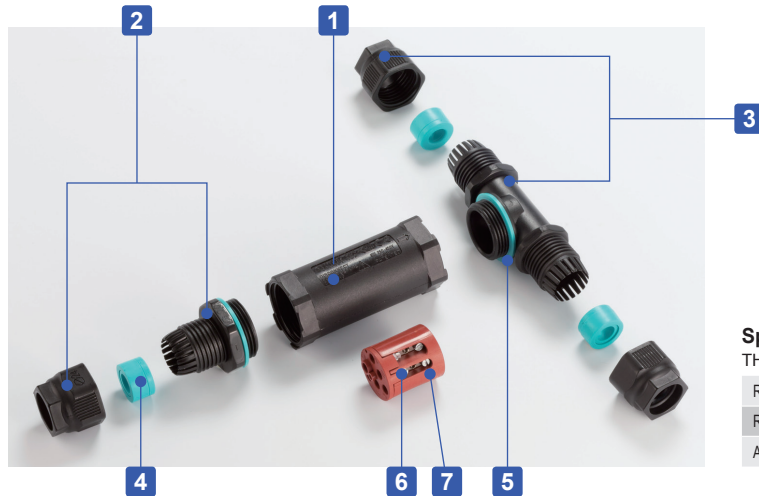


- IP68 3 ways relay connector for branching of cables or for connecting devices in a daisy chain.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 3P, 6P and 3WP pole terminal models and no terminal model are available.
- Possible to adopt wide cable range with the optional sealing insert.
(See page Tool-5 for the details.)
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

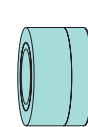


Technical Data

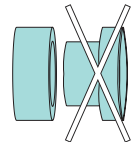
Protection class :
IP68 2bar/1h (1 hour / 20m depth)
Operating temperature : -40°C ~ +125°C
EN60529 : 1991+A1 : 2000,
EN60998-1 : 2004,
EN60998-2-1 : 2004 compliant



- Applicable cable size range can be expanded by removing the inner sealing insert.



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

Specifications

THB390T-3P • THB402T-6P

Rated voltage	AC250V
Rated current	24A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²

THB402T-3WP

Rated voltage	AC250V
Rated current	32A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²

■ PA66 = Polyamide 66

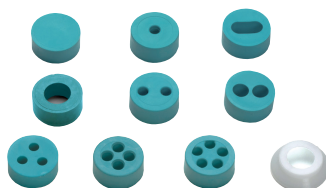
■ PA66GF = Glass fiber filled polyamide 66

Components

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-0)	Black
2	Cable gland	1	PA66 (UL94V-2)	Black
3	T-shaped cable gland	1	PA66 (UL94V-2)	Black
4	Sealing insert	3	TPE	Green
5	Gasket	2	Silicone	Green
6	Terminal	1	PA66GF (UL94V-0)	Black • Brown
7	Terminal screw (M3 slotted)	6 ~ 12	Steel	Zinc plated

Accessories

(Optional parts)



Sealing insert
See page Tool-5



Exclusive bracket
See page Tool-6



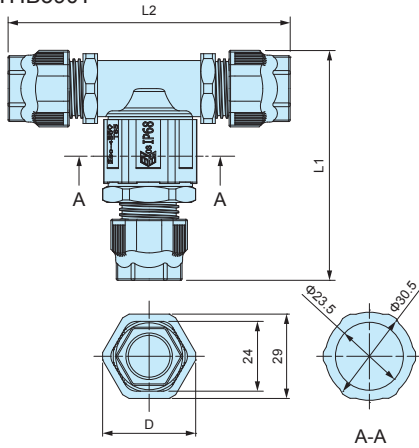
Exclusive tightening tool
See page Tool-5

Product no. / Details

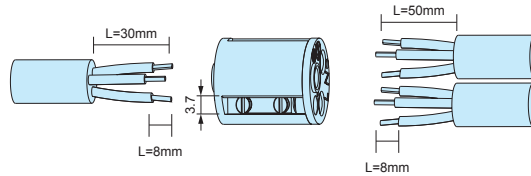
Product no.	L1	L2	D	Cable range	Number of poles
THB390T-3P	79	97	32	Φ7 ~ Φ13.5	3P
THB402T-6P	124	97	32	Φ7 ~ Φ13.5	6P
THB402T-3WP	124	97	32	Φ7 ~ Φ13.5	3WP
THB402T-N	124	97	32	Φ7 ~ Φ13.5	None

■ DXF/DWG/PDF drawings available on our website.

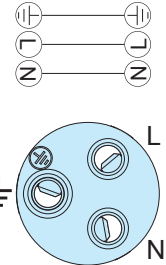
THB390T



3P Terminal

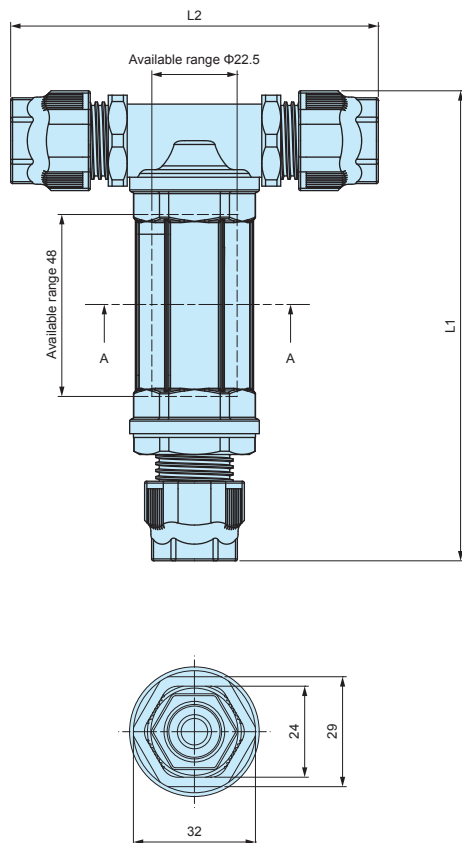


Wire connection diagram

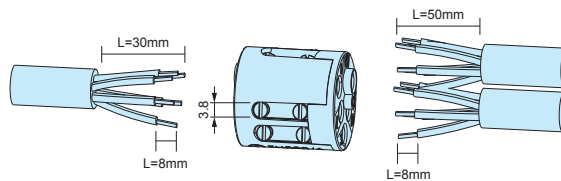


■ A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

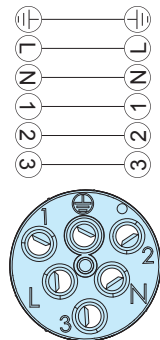
THB402T



THB402T-6P (Terminal model)

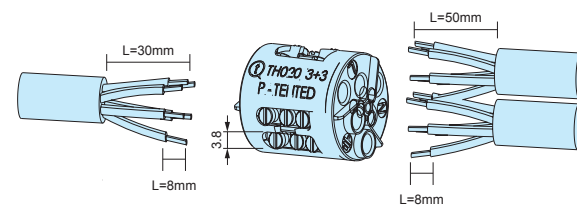


Wire connection diagram

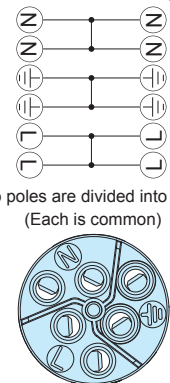


■ A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

THB402T-3WP (Terminal model)



Wire connection diagram



■ A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

THB402T-N (No terminal model)

- No terminal model.
- Use when utilizing other terminals or connecting without terminal.



THB399Y series

IP68 Y-SHAPED RELAY CONNECTOR

IP68



- IP68 3 ways relay connector for branching of cables.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 3P, 6P and 3WP pole terminal models and no terminal model are available.
- Possible to adopt wide cable range with the optional sealing insert. (See page Tool-5 for the details.)
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.



Technical Data

Protection class :
IP68 2bar/1h (1 hour / 20m depth)
Operating temperature : -40°C ~ +125°C
EN60529 : 1991+A1 : 2000,
EN60998-1 : 2004,
EN60998-2-1 : 2004 compliant



Specifications

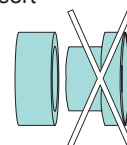
THB399Y-3P • 6P

Rated voltage	AC250V
Rated current	24A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²

Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Cable diameter
Φ9mm ~ Φ13.5mm

- Applicable cable size range can be expanded by removing the inner sealing insert.

THB399Y-3WP

Rated voltage	AC250V
Rated current	32A
Applicable wire	Stranded wire 0.5mm ² ~ 4.0mm ²

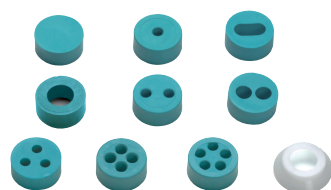
Components

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-0)	Black
2	Cable gland	3	PA66 (UL94V-2)	Black
3	Y shape cable gland	1	PA66GF (UL94V-0)	Black
4	Sealing insert	3	TPE	Green
5	Gasket	4	Silicone	Green
6	Terminal	1	PA66GF (UL94V-0)	Black • Brown
-	Terminal screw (M3 slotted)	6 ~ 12	Steel	Zinc plated

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Accessories (Optional parts)



Sealing insert
See page Tool-5



Exclusive bracket
See page Tool-6

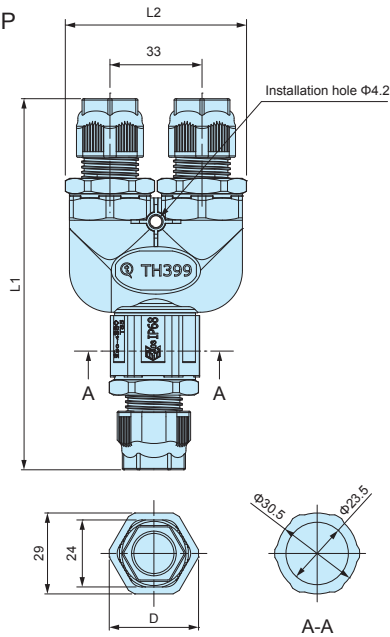


Exclusive tightening tool
See page Tool-5

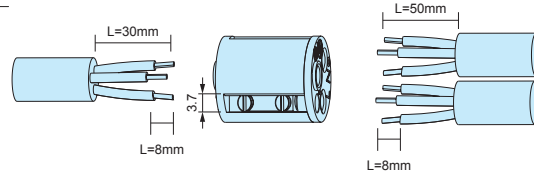
Product no. / Details

Product no.	L1	L2	D	Cable range	Number of poles
THB399Y-3P	133	65	32	Φ7 ~ Φ13.5	3P
THB399Y-6P	176	65	32	Φ7 ~ Φ13.5	6P
THB399Y-3WP	176	65	32	Φ7 ~ Φ13.5	3WP
THB399Y-N	176	65	32	Φ7 ~ Φ13.5	None

THB399Y-3P

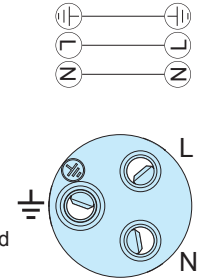


3P Terminal

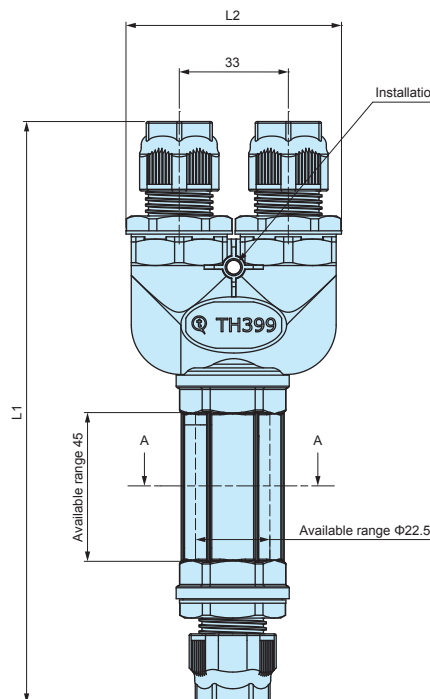


■ A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

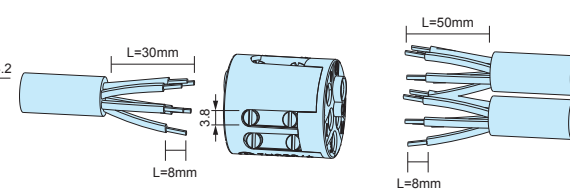
Wire connection diagram



THB399Y

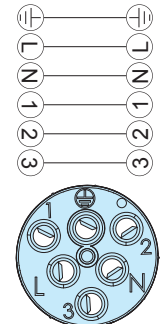


THB399Y-6P (Terminal model)

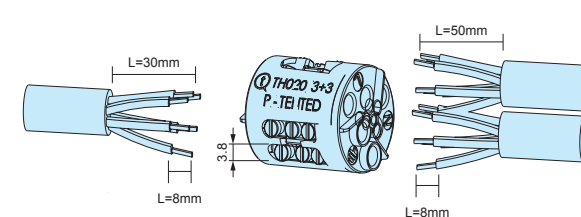


■ A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

Wire connection diagram

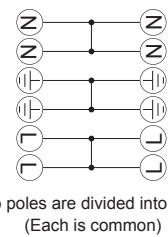


THB399Y-3WP (Terminal model)



■ A flathead (minus) screwdriver of tip width 3mm is recommended to be used.

Wire connection diagram



Two poles are divided into three.
(Each is common)

THB399Y-N (No terminal model)



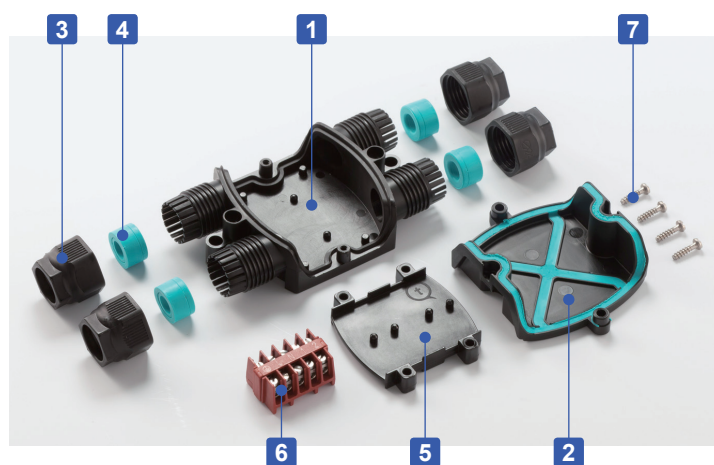
- No terminal model.
- Use when utilizing other terminals or connecting without terminal.



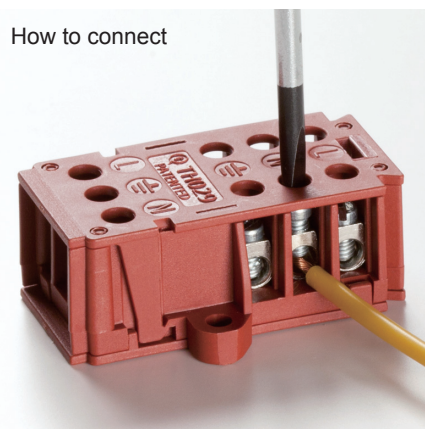
- IP68 relay box with easy screw connection with an integrated cable gland and terminal block structure.
- 3 and 4 ways type are available.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 3P, 5P, 8P, 3WP, 4WP and 3LP pole models and no terminal model are available.
- Possible to adopt wide cable range with the optional sealing insert.
(See page Sealing insert - 2 for the details.)
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

Technical Data

Protection class :
IP68 0.5bar/3h (3 hour / 5m depth)
Operating temperature : -40°C ~ +125°C
EN60529 : 1991+A1 : 2000,
EN60998-1 : 2004
compliant



How to connect



Components

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-2)	Black
2	Cover	1	PA66 • SEBS	Black • Green
3	Lock nut	3 ~ 4	PA66FV (UL94V-0)	Black
4	Sealing insert	3 ~ 4	TPE	Green
5	Terminal base	*1	PA66	Black
6	Terminal block	1	PA66GF (UL94V-0)	Brown
-	Terminal screw	6 ~ 16	Steel	Zinc plated
7	Cover screw	4	Stainless steel	Unfinished

■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

*Terminal base is not included in 3WP, 4WP, and no terminal models.



Accessories (Optional parts)

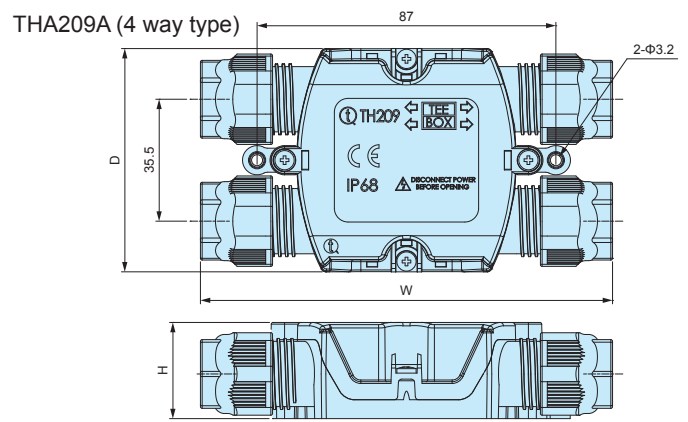
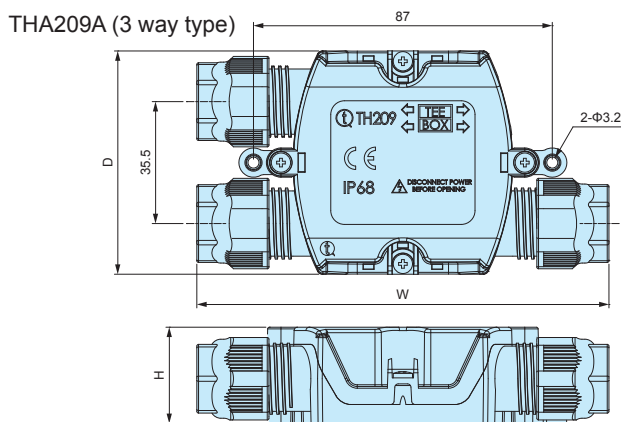
Sealing insert
See page Tool-5

Product no. / Details

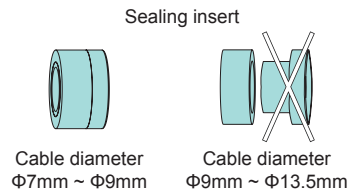
Product no.	W	D	H	Number of poles	Ways	Cable range
THA209A-N	120	65	28	None	3	Φ7 ~ Φ13.5
THA209B-N	120	65	28	None	4	Φ7 ~ Φ13.5
THA209A-3P	120	65	28	3P	3	Φ7 ~ Φ13.5
THA209B-3P	120	65	28	3P	4	Φ7 ~ Φ13.5
THA209A-5P	120	65	28	5P	3	Φ7 ~ Φ13.5
THA209B-5P	120	65	28	5P	4	Φ7 ~ Φ13.5
THA209A-8P	120	65	28	8P	3	Φ7 ~ Φ13.5
THA209B-8P	120	65	28	8P	4	Φ7 ~ Φ13.5
THA209A-3WP	120	65	28	3WP	3	Φ7 ~ Φ13.5
THA209B-3WP	120	65	28	3WP	4	Φ7 ~ Φ13.5
THA209A-4WP	120	65	28	4WP	3	Φ7 ~ Φ13.5
THA209B-4WP	120	65	28	4WP	4	Φ7 ~ Φ13.5
THA209A-3LP	120	65	28	3LP	3	Φ7 ~ Φ13.5
THA209B-3LP	120	65	28	3LP	4	Φ7 ~ Φ13.5

THA209 dimensions

■ DXF/DWG/PDF drawings available on our website.

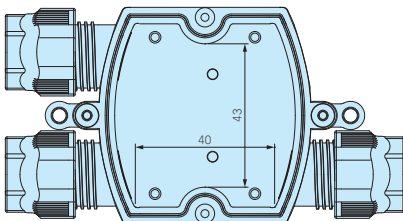


■ Applicable cable size range can be expanded by removing the inner sealing insert.

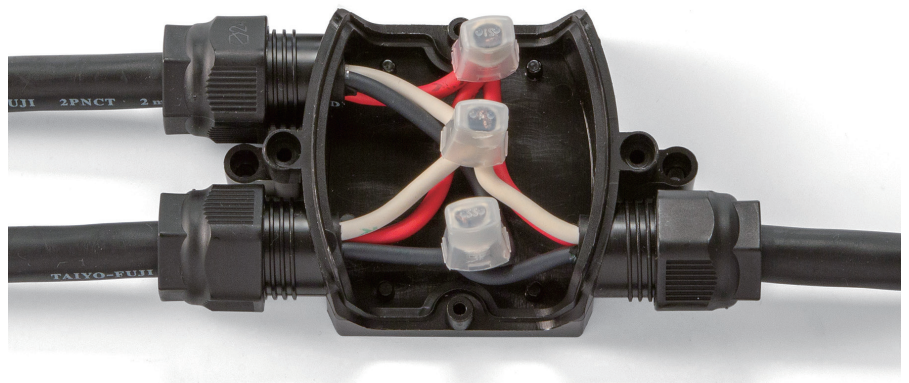
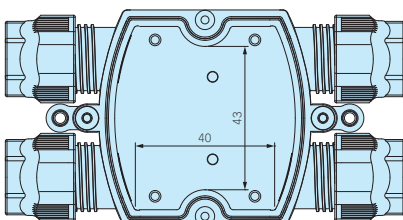


Terminal Block Diagram

THA209A-N (No terminal model)



THA209B-N (No terminal model)

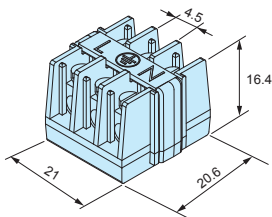
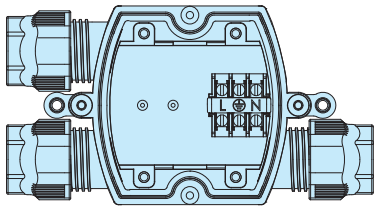


Installation example

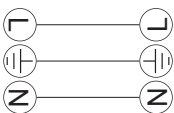
- No terminal model.
- Use when utilizing other terminals or connecting without terminal.

Terminal Block Diagram

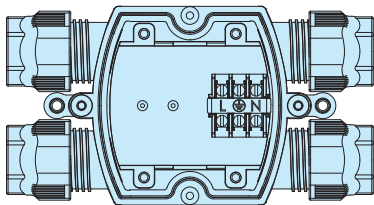
THA209A-3P



Wire Connection Diagram



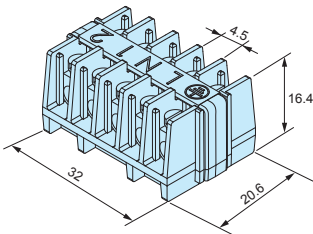
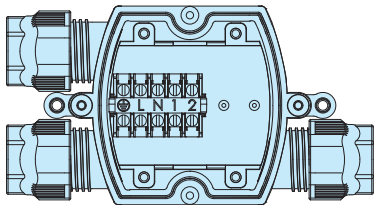
THA209B-3P



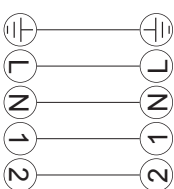
3P terminal block

Rated voltage / current	AC450V / 24A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²
Terminal screw	M3 minus head

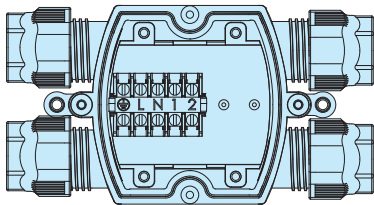
THA209A-5P



Wire Connection Diagram



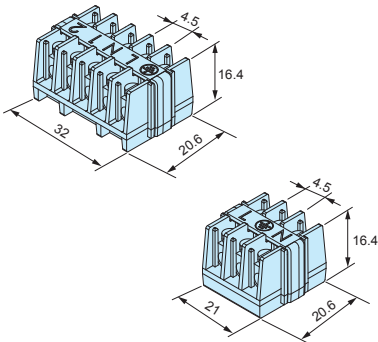
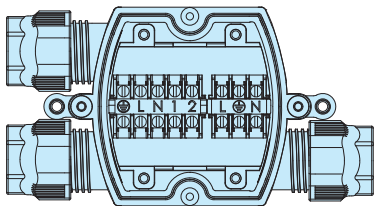
THA209B-5P



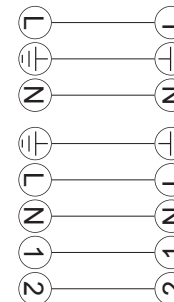
5P terminal block

Rated voltage / current	AC450V / 24A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²
Terminal screw	M3 minus head

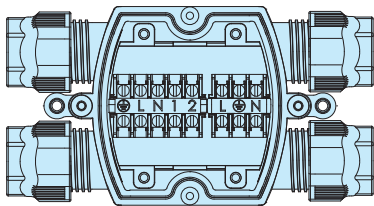
THA209A-8P



Wire Connection Diagram



THA209B-8P

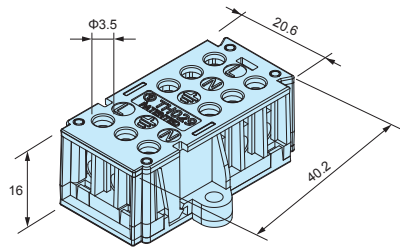
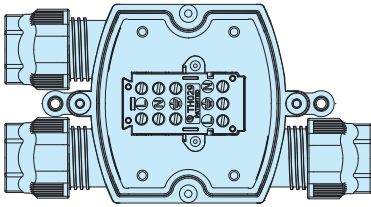


8P terminal block

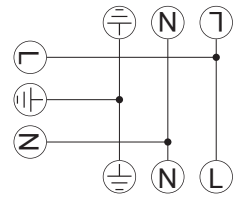
Rated voltage / current	AC450V / 24A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²
Terminal screw	M3 minus head

■ 8P terminal block is composed by 3P and 5P blocks.

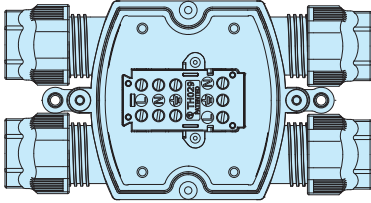
THA209A-3WP



Wire Connection Diagram



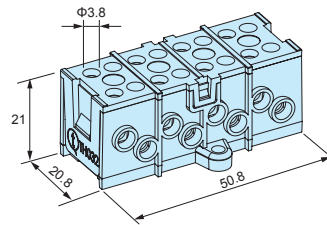
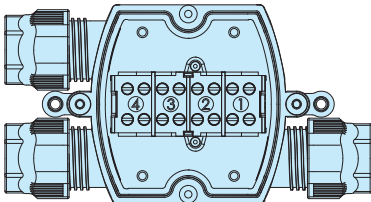
THA209B-3WP



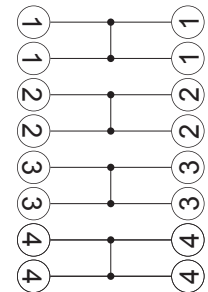
3WP terminal block

Rated voltage / current	AC450V / 32A
Applicable wire	Max 4.0mm ² (stranded wire)
Terminal screw	M3 minus head

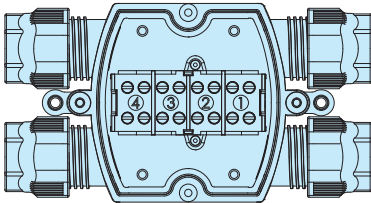
THA209A-4WP



Wire Connection Diagram



THA209B-4WP

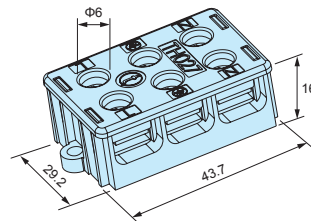
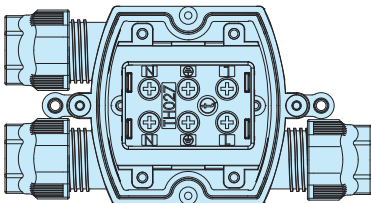


4WP terminal block

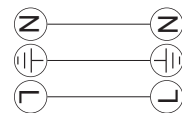
Rated voltage / current	AC450V / 32A
Applicable wire	Max 4.0mm ² (stranded wire)
Terminal screw	M3 minus head

Two poles are divided into four.
(Each is common)

THA209A-3LP

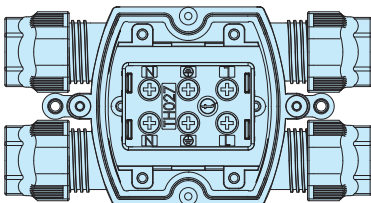


Wire Connection Diagram



Max 6.0mm² stranded wire can be connected.
Multiple wires can be branched.

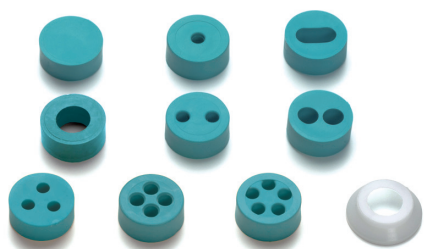
THA209B-3LP



3LP terminal block

Rated voltage / current	AC450V / 41A
Applicable wire	Max 6.0mm ² (stranded wire)
Terminal screw	M3.5 plus head

SEALING INSERT for THA • THB • THS



- Optional sealing insert for THA209, THB387L, 387LE, 389, 389E, 390, 399Y, 400, 402T, 405, 406, THS389 and 389E.

(Not applicable to be used for THB381, 381E, 387, 387E, 391 and 392 series.)

- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000087LF cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.

Product no. / Details

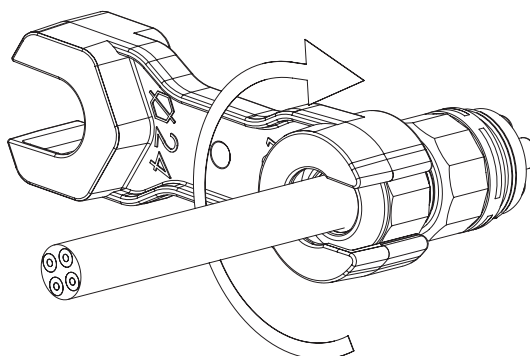
Product no.	Appearance	Cable range	Material	Pack of
600013700		Blind insert without hole	TPE	10
600012700		11mm × 5.5mm	TPE	10
600037000		Φ4.0 ~ Φ6.5mm	TPE • POM	10 each
604001100		Φ5.5 ~ Φ9.5mm Use fixing cap for cables sized Φ7.0mm or smaller	TPE • POM	10 each
600013600		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600012500		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600030600		Φ4.5 ~ Φ6.0mm	TPE	10
600012600		Φ2.0 ~ Φ4.0mm	TPE	10
600018200		Φ2.0 ~ Φ3.5mm	TPE	10
600022400		Φ2.5 ~ Φ3.5mm	TPE	10
6000087LF		Cap for cables sized Φ7.0mm or smaller	POM	10

- 6000087LF cap cannot be used with 600030600 and 600022400

EXCLUSIVE TIGHTENING TOOL for THB • THS



How to use



- Dedicated locking tool for tightening of the cable gland cap.

Product no. / Details

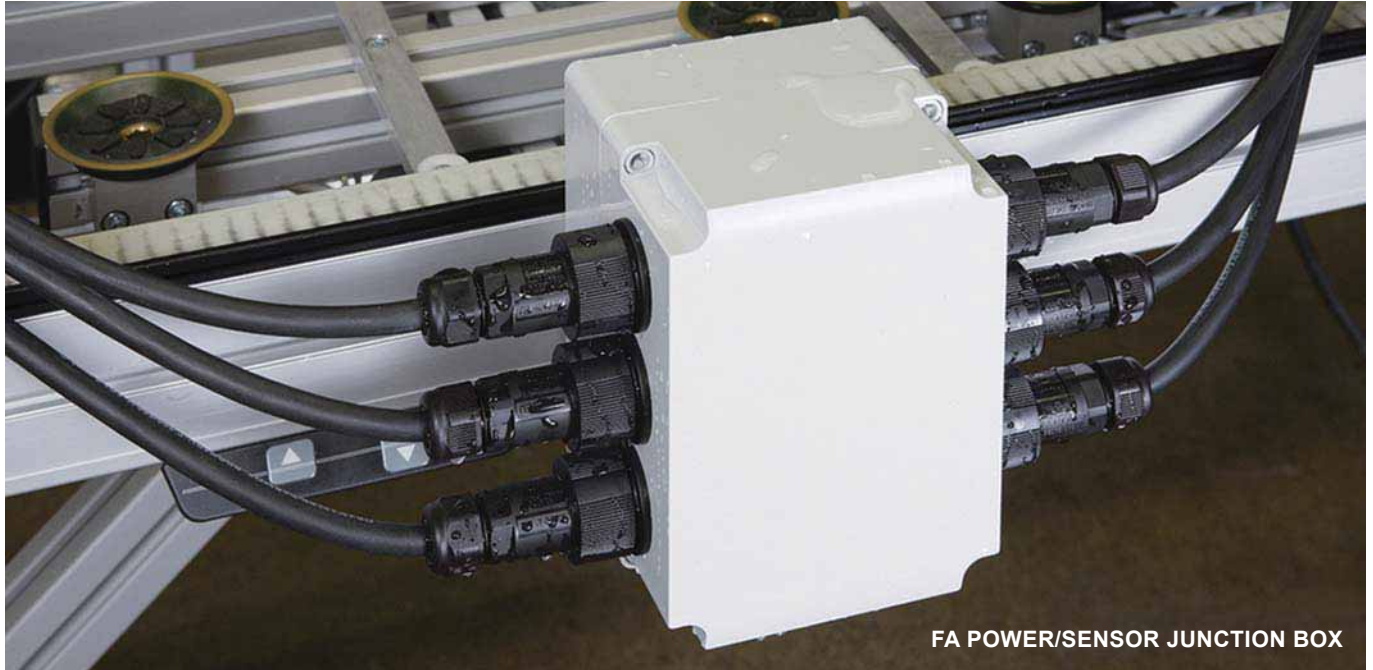
- PA66GF = Glass fiber filled polyamide 66

Product no.	Material / Color	Suitable models
6000337BC	PA66GF / Black	THB387 • 387E • 387L • 387LE • 389 • 389E • 390 • 390T • 391 • 392 • 399Y • 400 • 402T • 405 • 406 • THS389 • 389E

IP67 POLYCARBONATE BOX**SPCP · SPCM SERIES APPLICATION EXAMPLE**

Made from polycarbonate material, the SPCP · SPCM series features not only high durability, but also comes with IP67 protection.

Suitable to be used in a wide range of applications, such as FA/control, measurement equipment, network communication and so on.

**FA POWER/SENSOR JUNCTION BOX****INDUSTRIAL MOTOR JUNCTION BOX****AUTOMATIC DOOR OPEN/CLOSE SWITCH****DIGITAL DIFFERENTIAL MANOMETER**

Product by KRONE CORPORATION (Japan)

**PARTS FEEDER COUNTER**

REMOTE GREENHOUSE MONITORING SYSTEM

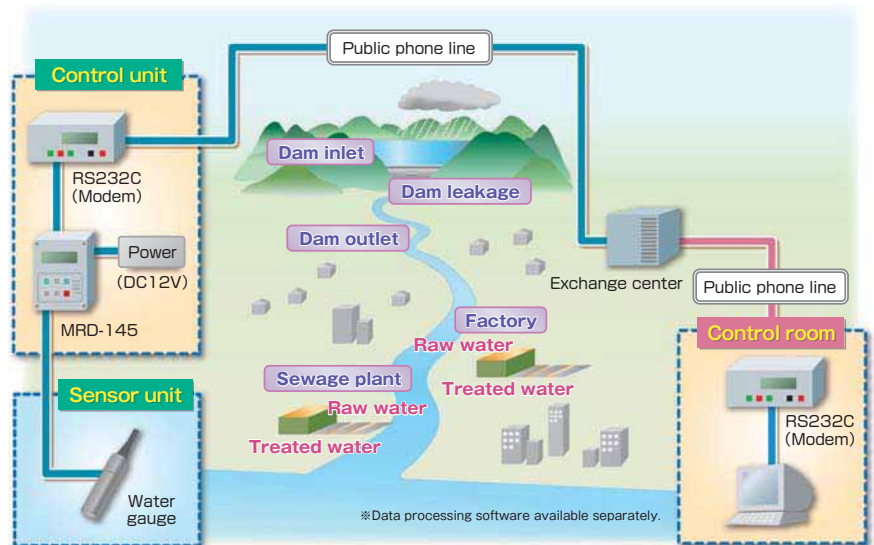


METEOROLOGICAL MONITOR



WATER LEVEL METER

Product by HOKUTO RIKEN (Japan)



DIGITAL ANEMOMETER

Product by North One (Japan)



SENSOR NETWORK MONITOR

Product by KYOSAI TECHNOLOGIES (Japan)



FIELD DATA LOGGER

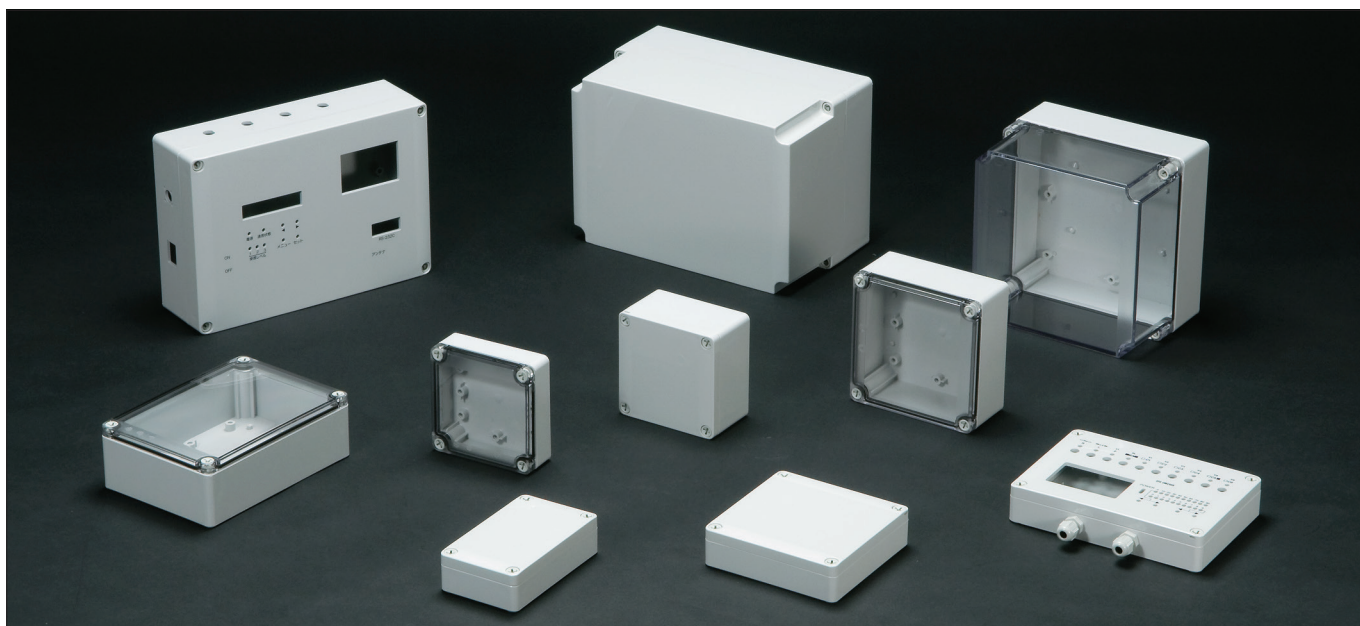
Product by M.C.S (Japan)



MONITORING CAMERA

Product by ACE PROMOTION (Japan)





Technical Data

Protection class : IP66 • IP67
 Operating temperature : -20°C ~ +75°C
 Recommended Torque : 1N • m ~ 1.5N • m



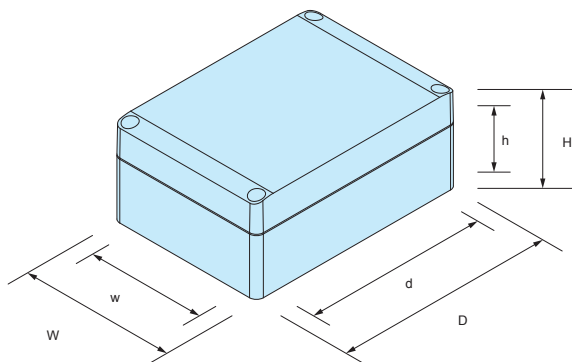
- UL certified products are SPCP.U series. See our website for more details.
- Please see our "PROTECTION CLASS (IP RATING)" document for details on the protection class when selecting your enclosure.
- Tough polycarbonate material for superior impact resistance.
- Available in 28 different sizes, with 2 different cover types (white gray and transparent).
- Suitable to be used as terminal junction box, control box, communication unit and more.
- Mountable on walls by using the cover holes for fastening.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Polycarbonate UL94V-2	White gray • Transparent
2	Body	1	Glass fiber filled polycarbonate UL94V-0	White gray
3	Gasket	1	Polyurethane	Black
4	Cover screw	4	Polyamide	White gray
5	Tapping screw (for mounting plate)	4	Steel	Unichrome plated

SPCP dimensions

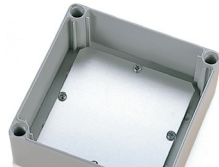
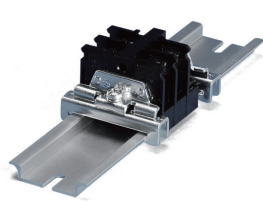
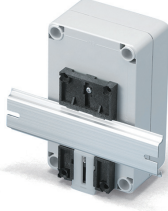
■ DXF/DWG/PDF/STP drawings available on our website.

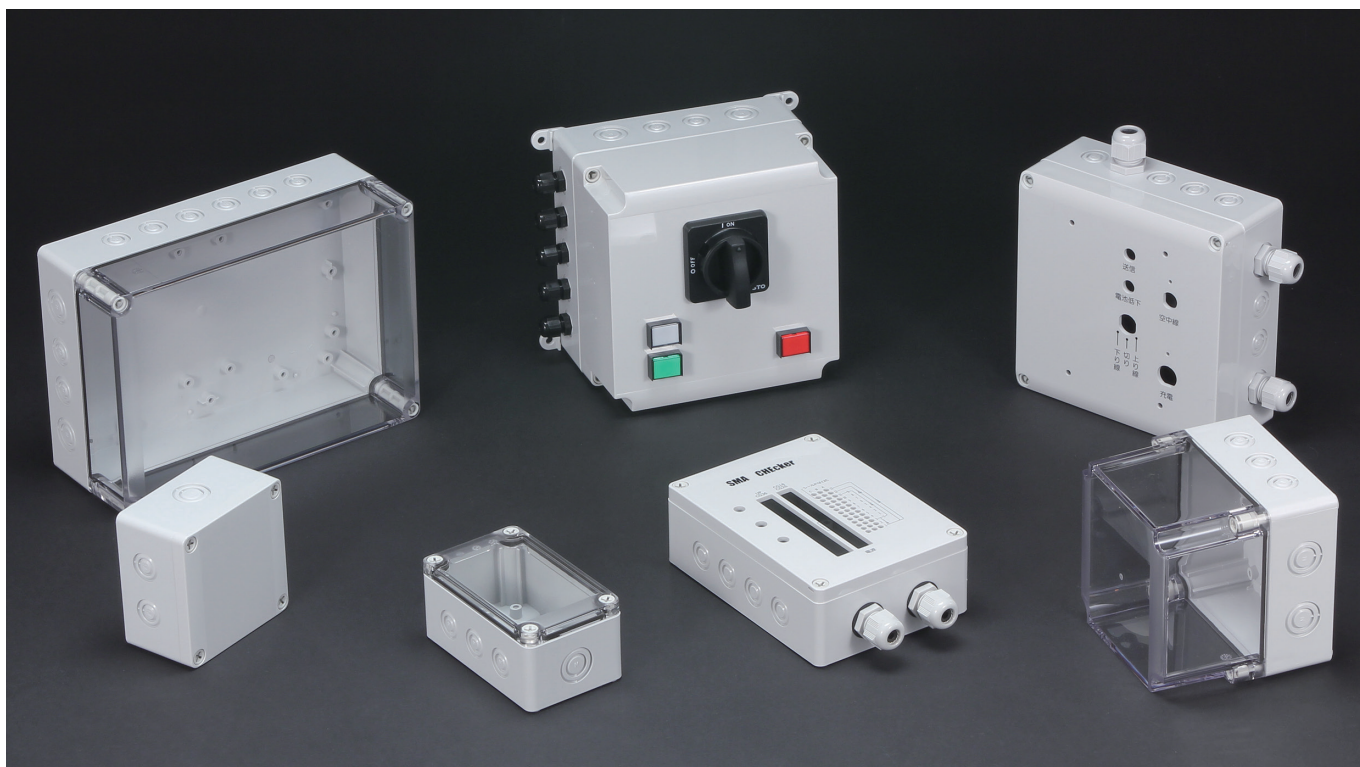


Product no. / Details

Product no.				Dimensions (External)			Dimensions (Internal)			Weight (g)
G type		T type		W	D	H	w	d	h	
Cover	Body	Cover	Body							
● White gray		○ Transparent	● White gray							
SPCP081304G		SPCP081304T		75	125	35	65.5	91	20.5	120
SPCP081305G		SPCP081305T		75	125	50	65.5	91	35.5	150
SPCP081306G		SPCP081306T		75	125	60	65.5	91	45.5	161
SPCP081308G		SPCP081308T		75	125	75	65.5	91	60.5	213
SPCP081310G		SPCP081310T		75	125	100	65	90.5	85.5	278
SPCP081313G		SPCP081313T		75	125	125	64.5	90	110.5	306
SPCP101004G		SPCP101004T		100	100	35	90.5	66	20.5	124
SPCP101006G		SPCP101006T		100	100	60	90.5	66	45.5	165
SPCP131304G		SPCP131304T		125	125	35	115.5	91	20.5	178
SPCP131305G		SPCP131305T		125	125	50	115.5	91	35.5	215
SPCP131306G		SPCP131306T		125	125	60	115.5	91	45.5	243
SPCP131308G		SPCP131308T		125	125	75	115.5	91	60.5	294
SPCP131310G		SPCP131310T		125	125	100	115	90.5	85.5	366
SPCP131313G		SPCP131313T		125	125	125	114.5	90	110.5	405
SPCP131804G		SPCP131804T		125	175	35	115.5	141	20.5	237
SPCP131805G		SPCP131805T		125	175	50	115.5	141	35.5	282
SPCP131806G		SPCP131806T		125	175	60	115.5	141	45.5	297
SPCP131808G		SPCP131808T		125	175	75	115.5	141	60.5	378
SPCP131810G		SPCP131810T		125	175	100	115	140.5	85.5	463
SPCP131813G		SPCP131813T		125	175	125	115	140.5	110.5	531
SPCP131815G		SPCP131815T		125	175	150	114	139.5	135.5	600
SPCP181808G		SPCP181808T		175	175	75	165.5	141	60.5	475
SPCP181810G		SPCP181810T		175	175	100	165	140.5	85.5	584
SPCP181813G		SPCP181813T		175	175	125	164.5	140	110.5	652
SPCP181815G		SPCP181815T		175	175	150	164	139.5	135.5	738
SPCP182508G		SPCP182508T		175	250	75	165.5	216	60.5	637
SPCP182510G		SPCP182510T		175	250	100	165	215.5	85.5	754
SPCP182515G		SPCP182515T		175	250	150	164	214.5	135.5	959

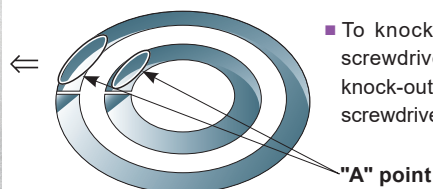
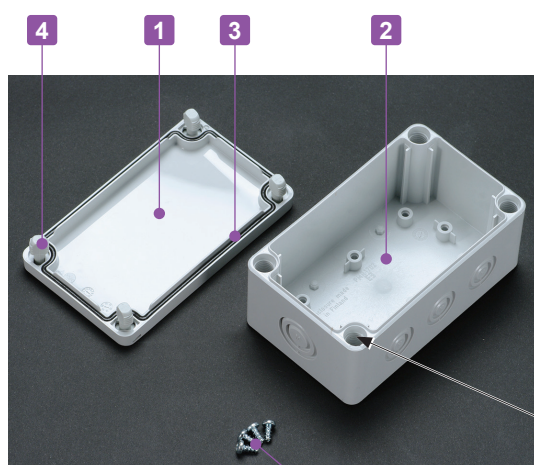
Accessories (Optional parts)

Terminal block • Terminal cover STB • STC series
See page STB • STC-1 ~ STB • STC-4Mounting bracket SFL-1
See page SPCM • SPCP-ACC-1Mounting plate SMP series
See page SPCM • SPCP-ACC-1Cable gland
See cable gland pagesProtective vent PMF series
See PMF pagesDIN-Rail FDR series
See page FDR-1 ~ FDR-2Terminal block stopper TKR series
See page DIN-ACC-2DIN-Rail mounting base DRA, DRT, CKD series
See page DIN-ACC-1 ~ DIN-ACC-2Pole mounting bracket & belt SSK, PKB series
See page SSK-1 ~ SSK-4Outdoor roof SR series
See page SPCM • SPCP-ACC-2



Technical Data

Protection class : IP66 • IP67
 Operating temperature : -20°C ~ +75°C
 Recommended Torque : 1N • m ~ 1.5N • m



■ To knock out the hole covers, rest a flathead screwdriver at the "A" points, and punch out the knock-outs by hammering on the rear end of the screwdriver handle with a hammer.

"A" point

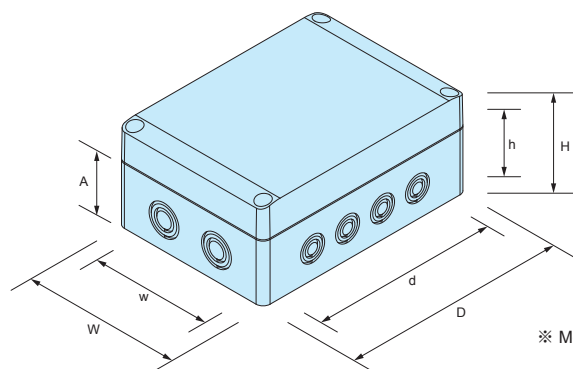
- UL certified products are SPCM.U series. See our website for more details.
- Please see our "PROTECTION CLASS (IP RATING)" document for details on the protection class when selecting your enclosure.
- Tough polycarbonate material for superior impact resistance.
- Available in 28 different sizes, with 2 different cover types (white gray and transparent).
- Molded with metric knock-outs to allow for easy cable entry.
- Suitable to be used as terminal junction box, control box, communication unit and more.
- Mountable on walls by using the cover holes for fastening.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Polycarbonate UL94V-2	White gray • Transparent
2	Body	1	Glass fiber filled polycarbonate UL94V-0	White gray
3	Gasket	1	Polyurethane	Black
4	Cover screw	4	Polyamide	White gray
5	Self-tapping screw (for mounting plate)	4	Steel	Unichrome plated

SPCM dimensions

■ DXF/DWG/PDF drawings available on our website.

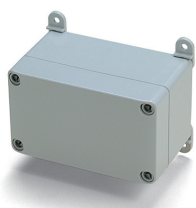
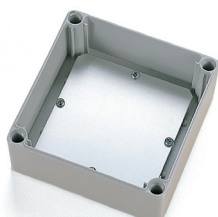
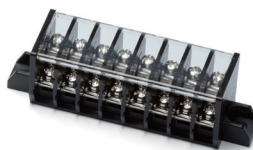


※ Metric knock-outs are on all 4 sides.

Product no. / Details

Product no.				External dimensions				Internal dimensions			Weight (g)
G type		T type		W	D	H	A	w	d	h	
Cover	Body	Cover	Body								
● White gray		○ Transparent	● White gray								
SPCM081306G		SPCM081306T		75	125	60	50	65.5	91	45.5	159
SPCM081308G		SPCM081308T		75	125	75	50	65.5	91	60.5	208
SPCM081310G		SPCM081310T		75	125	100	50	65	90.5	85.5	275
SPCM081313G		SPCM081313T		75	125	125	50	64.5	90	110.5	299
SPCM101006G		SPCM101006T		100	100	60	50	90.5	66	45.5	164
SPCM131306G		SPCM131306T		125	125	60	50	115.5	91	45.5	243
SPCM131308G		SPCM131308T		125	125	75	50	115.5	91	60.5	292
SPCM131310G		SPCM131310T		125	125	100	50	115	90.5	85.5	366
SPCM131313G		SPCM131313T		125	125	125	50	114.5	90	110.5	401
SPCM131806G		SPCM131806T		125	175	60	50	115.5	141	45.5	294
SPCM131808G		SPCM131808T		125	175	75	50	115.5	141	60.5	373
SPCM131810G		SPCM131810T		125	175	100	50	115	140.5	85.5	450
SPCM131813G		SPCM131813T		125	175	125	50	115	140.5	110.5	519
SPCM131815G		SPCM131815T		125	175	150	50	114	139.5	135.5	588
SPCM181808G		SPCM181808T		175	175	75	50	165.5	141	60.5	468
SPCM181810G		SPCM181810T		175	175	100	50	165	140.5	85.5	569
SPCM181810HG		SPCM181810HT		175	175	100	75	164.8	140.4	85.5	538
SPCM181813G		SPCM181813T		175	175	125	50	164.5	140	110.5	639
SPCM181813HG		SPCM181813HT		175	175	125	75	164.3	139.9	110.5	652
SPCM181815G		SPCM181815T		175	175	150	50	164	139.5	135.5	723
SPCM181815HG		SPCM181815HT		175	175	150	75	163.9	139.5	135.5	716
SPCM181818HG		SPCM181818HT		175	175	175	75	163.5	139.1	160.5	794
SPCM182508G		SPCM182508T		175	250	75	50	165.5	216	60.5	633
SPCM182510G		SPCM182510T		175	250	100	50	165	215.5	85.5	745
SPCM182510HG		SPCM182510HT		175	250	100	75	164.8	215.4	85.5	718
SPCM182513HG		SPCM182513HT		175	250	125	75	164.3	214.9	110.5	855
SPCM182515G		SPCM182515T		175	250	150	50	164	214.5	135.5	946
SPCM182518HG		SPCM182518HT		175	250	175	75	163.5	214.1	160.5	983

Accessories (Optional parts)

Mounting bracket SFL-1
See page SPCM • SPCP-ACC-1Mounting plate SMP series
See page SPCM • SPCP-ACC-1Cable gland
See cable gland pagesTerminal block • Terminal cover STB • STC series
See page STB • STC-1 ~ STB • STC-4Pole mounting bracket & bolt SSK, PKB series
See page SSK-1 ~ SSK-4

STB SERIES

TERMINAL BLOCK

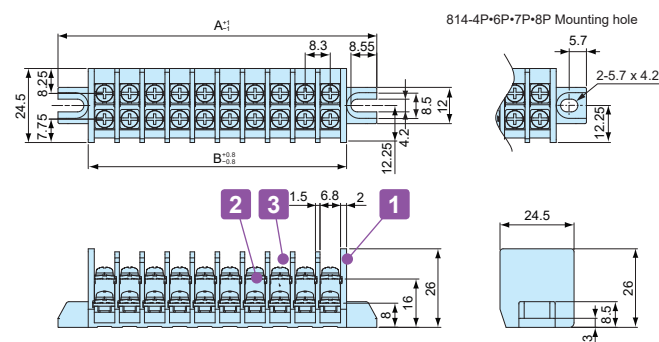
 (FW2)


■ Terminal block for SPCM • SPCP series.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Base	1	PBT (UL94V-0)	Black
2	Terminal	1	Brass	Nickel plated
3	Terminal screw	2 x P	Steel	Nickel plated
—	Mounting screw	4	Steel	Trivalent chromate

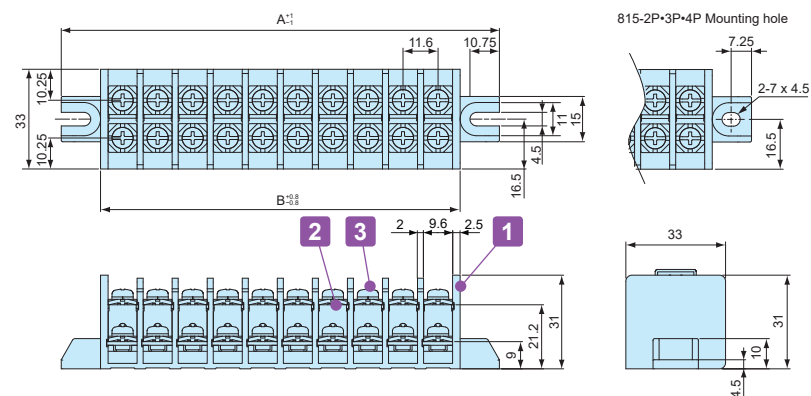
STB-814



Specification

1. Electrical Rating 300V 30A
2. Insulation Resistance DC500V 1000MΩ ~
3. Withstand Voltage AC2500V (Tested for 1 min.)
4. Operating Temp. Range -25°C ~ +80°C
5. Storage Temp. Range -25°C ~ +80°C

STB-815



Specification

1. Electrical Rating 300V 30A
(600V 30A JIS IEC compliant)
2. Insulation Resistance DC500V 1000MΩ ~
3. Withstand Voltage AC2500V (Tested for 1 min.)
4. Operating Temp. Range -25°C ~ +80°C
5. Storage Temp. Range -25°C ~ +80°C

Product no. / Dimensions

Product no.	P (Number of poles)	A	B	Suitable SPCM • SPCP box W x D dimensions
STB814- 3P	3	47.4	27.4	75×125
STB814- 4P	4	55.7	35.7	100×100
STB814- 6P	6	72.3	52.3	175×175
STB814- 7P	7	80.6	60.6	100×100
STB814- 8P	8	88.9	68.9	75×125, 125×125
STB814- 9P	9	97.2	77.2	125×125, 125×175, 175×250
STB814-10P	10	105.5	85.5	125×175, 175×250
STB815- 2P	2	52.2	26.2	75×125
STB815- 3P	3	63.8	37.8	100×100
STB815- 4P	4	75.4	49.4	125×125
STB815- 6P	6	98.6	72.6	125×125, 125×175, 175×250
STB815-10P	10	145	119	175×175, 175×250

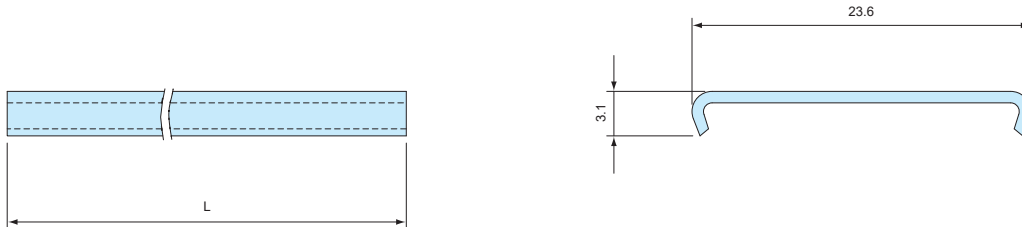
STC SERIES

TERMINAL COVER

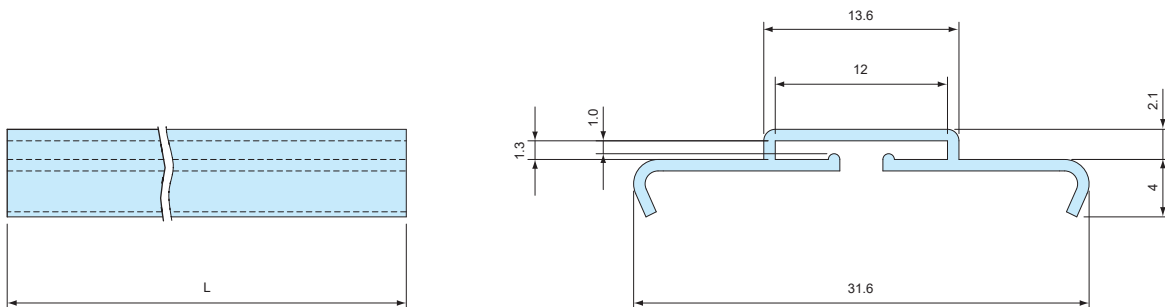


- Terminal cover for STB terminal block.
- Use for protecting terminals.

STC814



STC815



- Material / Color : Polycarbonate t=0.8mm / Transparent

Product no. / Dimensions

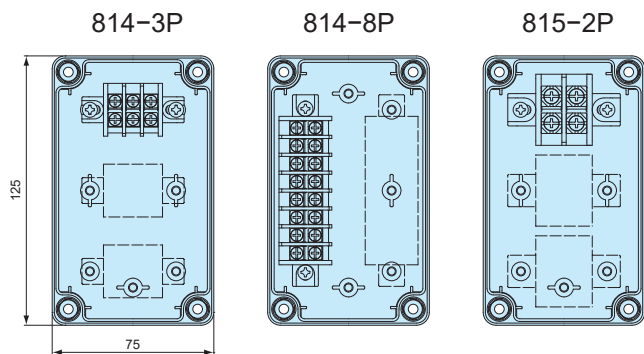
Product no.	P (Number of poles)	L	Compatible terminal
STC814- 3P	3	22.4	STB814- 3P
STC814- 4P	4	30.7	STB814- 4P
STC814- 6P	6	47.3	STB814- 6P
STC814- 7P	7	55.6	STB814- 7P
STC814- 8P	8	63.9	STB814- 8P
STC814- 9P	9	72.2	STB814- 9P
STC814-10P	10	80.5	STB814-10P
STC815- 2P	2	20.2	STB815- 2P
STC815- 3P	3	31.8	STB815- 3P
STC815- 4P	4	43.4	STB815- 4P
STC815- 6P	6	66.6	STB815- 6P
STC815-10P	10	113.0	STB815-10P

STB TERMINAL BLOCK MOUNTING POSITION

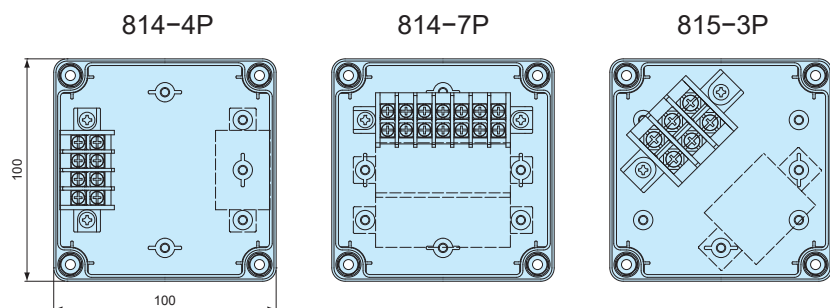
■ Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.

■ Terminals can be installed in the area with dotted lines.

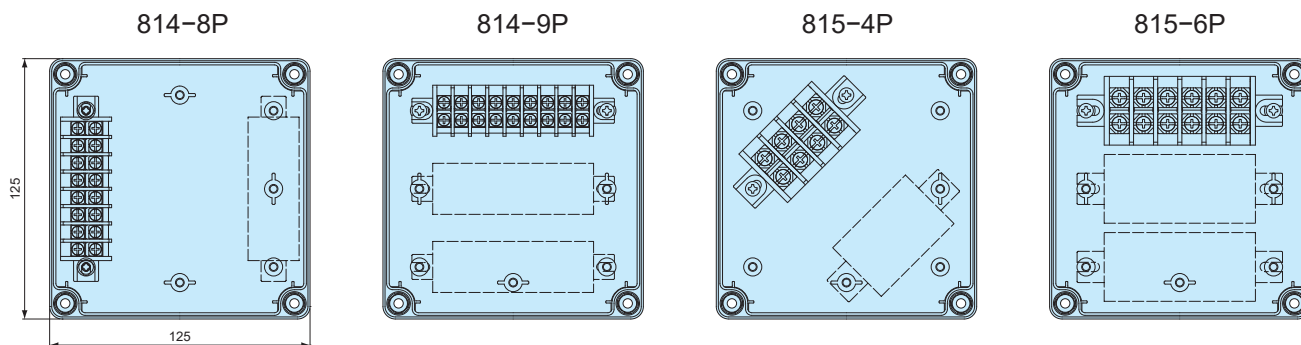
Suitable box SPCM/SPCP 081305 • 081306 • 081308 • 081310 • 081313



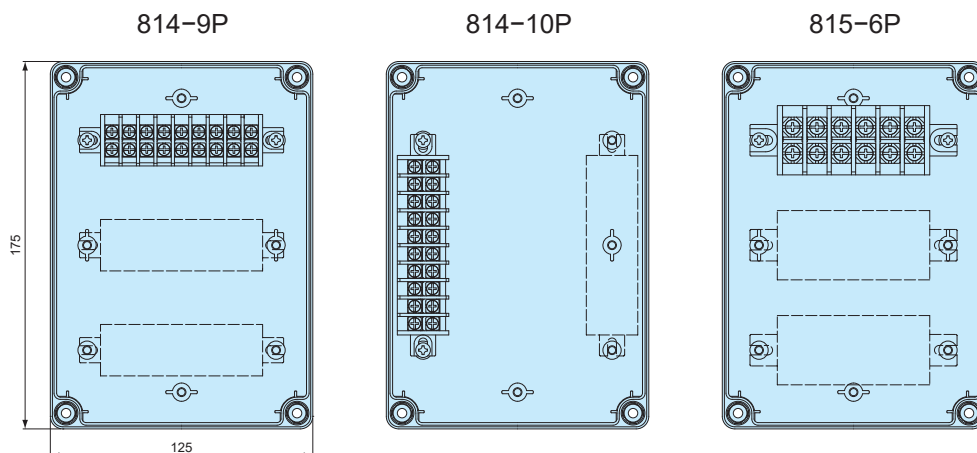
Suitable box SPCM/SPCP 101006



Suitable box SPCM/SPCP 131305 • 131306 • 131308 • 131310 • 131313



Suitable box SPCM/SPCP 131805 • 131806 • 131808 • 131810 • 131813 • 131815



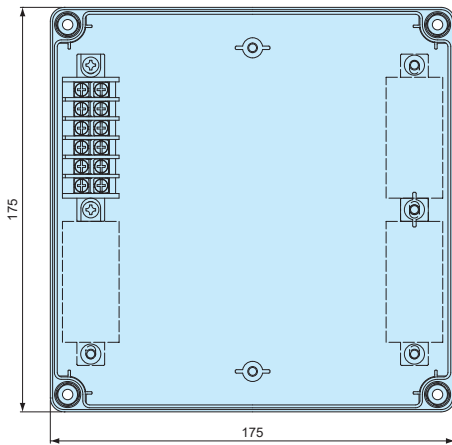
STB TERMINAL BLOCK MOUNTING POSITION

■ Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.

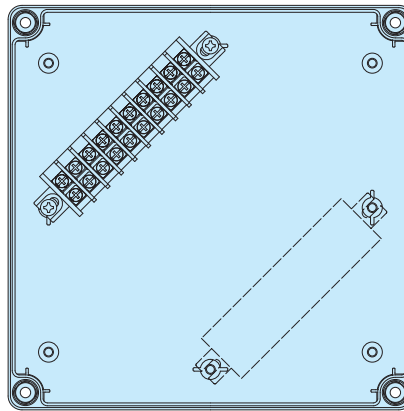
■ Terminals can be installed in the area with dotted lines.

Suitable box SPCM/SPCP 181808 • 181810 • 181813 • 181815

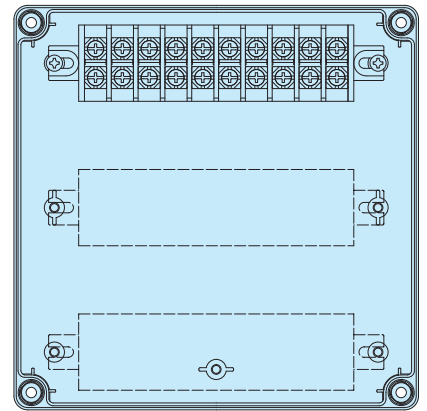
814-6P



814-10P

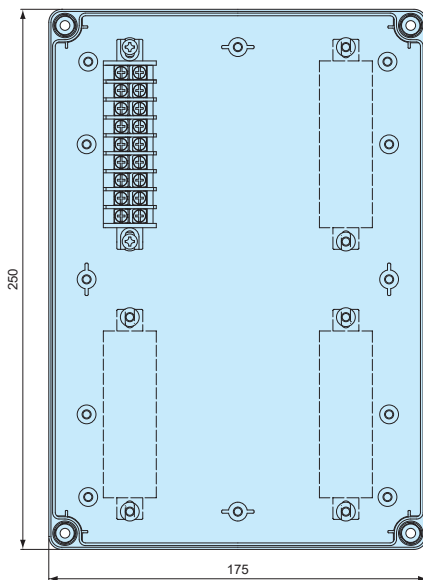


815-10P

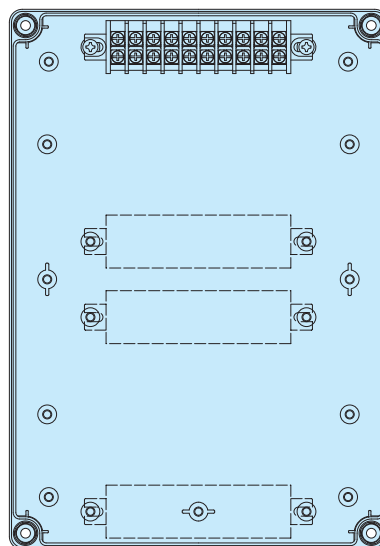


Suitable box SPCM/SPCP 182508 • 182510 • 182515

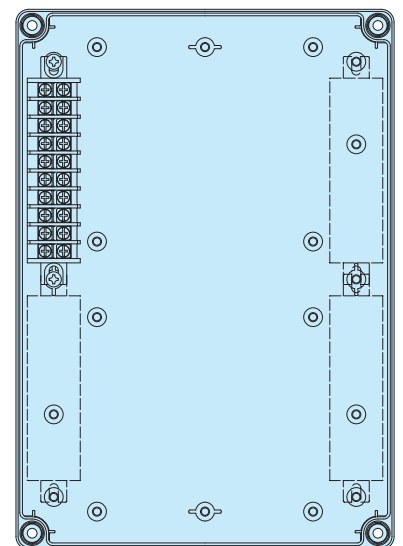
814-9P



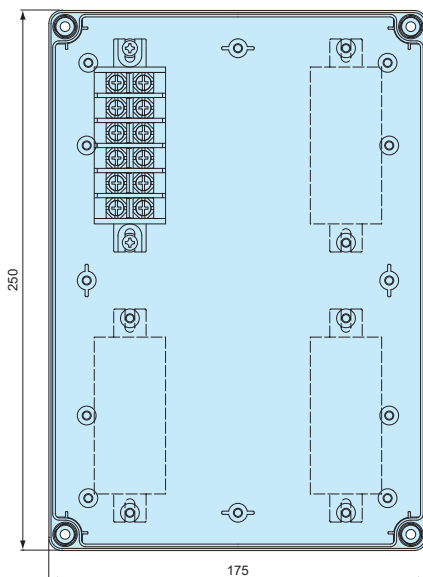
814-10P



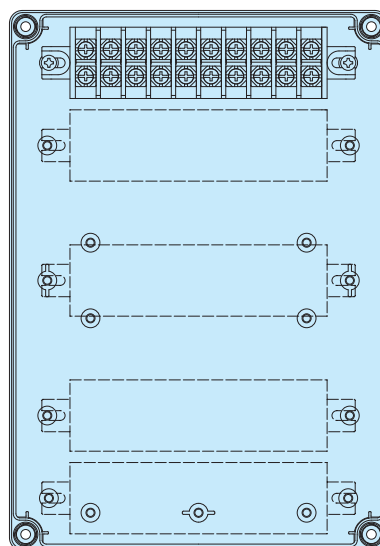
814-10P



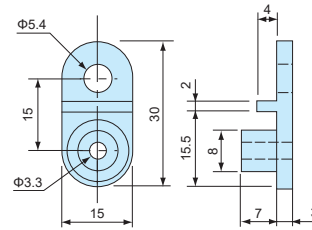
815-6P



815-10P



SFL-1 PLASTIC MOUNTING BRACKET



Product no. / Feature

Product no.	Material	Screw	Pcs
SFL-1	Polycarbonate	M4 Tapping	4

SMS4-8 MOUNTING SCREW



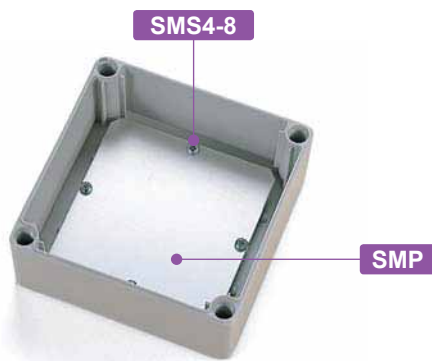
- Mounting screws for PCB mounting on SPCP • SPCM series.
※ 1 set included with each SPCP • SPCM enclosure.

Product no. / Feature

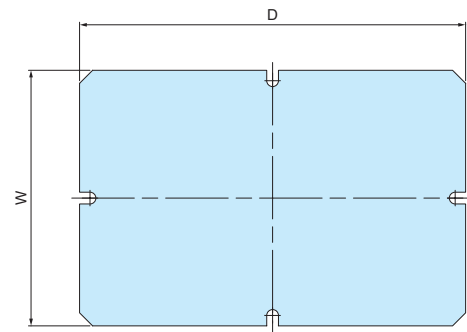
Product no.	Material	Screw	Pcs
SMS4-8 (M4-8 Pan head tapping)	Steel	Trivalent chromate	4

SMP SERIES ALUMINIUM MOUNTING PLATE

SMP dimensions



- Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.



Product no. / Dimensions

Product no.	Suitable box	W	D	Weight (g)
SMP0813	SPCM • SPCP0813	48	98	18
SMP1010	SPCM • SPCP1010	78	78	24
SMP1313	SPCM • SPCP1313	98	98	40.5
SMP1318	SPCM • SPCP1318	98	148	61
SMP1818	SPCM • SPCP1818	148	148	93
SMP1825	SPCM • SPCP1825	148	223	140.5

- Customization services (clinchng standoffs, hole milling, and others) available.
See website for more details.



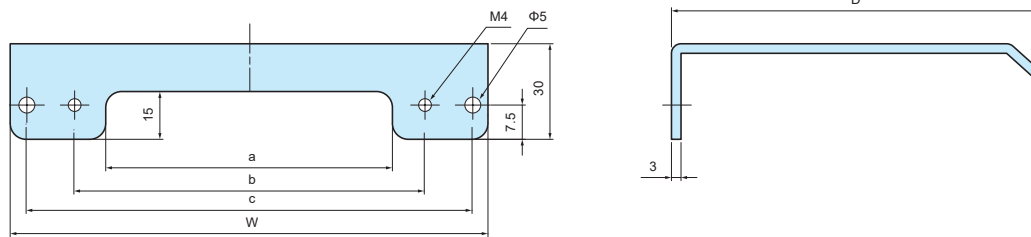
SR SERIES

OUTDOOR ROOF for SPCM • SPCP

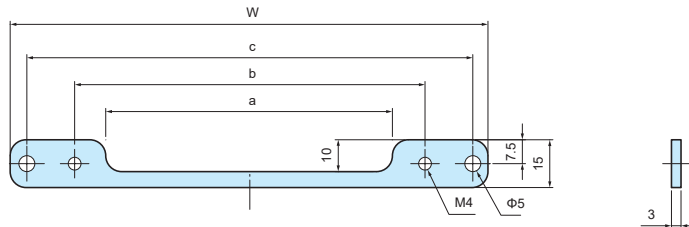


- Roof and spacer attachments are easily attached onto the enclosure using existing cover fastening holes.
- Recommended for outdoor environments for protection against rain, etc.

Roof



Spacer



Components

No.	Part name	Pcs	Material	Color / Finish
1	Roof	1	Aluminium A1050P t = 3.0mm	Light gray / Painted
2	Spacer	1	Aluminium A1050P t = 3.0mm	Light gray / Painted
-	Screw	4	Stainless steel	Unfinished
-	O-ring	4	NBR	Black

Product no. / Dimensions

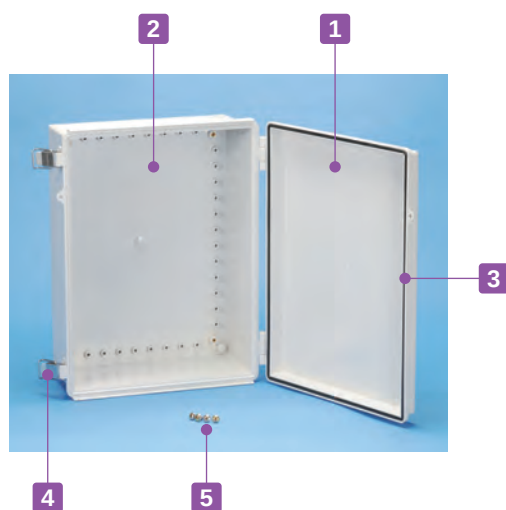
Product no.	W	D	a	b	c	Suitable box
SR0808	100	90	50	60	90	SPCM • SPCP 081308
SR0810	100	115	50	60	90	SPCM • SPCP 081310
SR0813	100	140	50	60	90	SPCM • SPCP 081313
SR1308	150	90	90	110	140	SPCM • SPCP 131308 131808
SR1310	150	115	90	110	140	SPCM • SPCP 131310 131810
SR1313	150	140	90	110	140	SPCM • SPCP 131313 131813
SR1315	150	165	90	110	140	SPCM • SPCP 131815
SR1808	200	90	140	160	190	SPCM • SPCP 181808 182508
SR1810	200	115	140	160	190	SPCM • SPCP 181810 182510
SR1813	200	140	140	160	190	SPCM • SPCP 181813
SR1815	200	165	140	160	190	SPCM • SPCP 181815 182515

BCAP series

IP65 LATCH-HINGED ABS PLASTIC BOX

BCPC series

IP65 LATCH-HINGED POLYCARBONATE PLASTIC BOX



Technical Data

Protection class: IP65
 Operating temperature:
 BCAP -10°C ~ +60°C
 BCPC -20°C ~ +75°C

■ UL certified BC-C series is also available.
 See website for details.

- IP65 latch-hinged box for easy opening and closing.
- 50 different sizes available.
- Applicable for various uses in fields such as FA, network communication, power switch controls and more.
- BCAP series is made of white gray ABS with 2 different cover types (white gray ABS and transparent polycarbonate) available.
- BCPC series is made of light gray UL94V-0 polycarbonate, which has good heat resistant properties.

Components : BCAP series

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB • Polycarbonate UL94V-0	White gray • Transparent
2	Base	1	ABS UL94HB	White gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Components : BCPC series

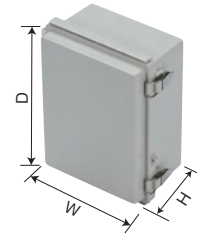
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate UL94V-0	Light gray
2	Base	1	Glass fiber filled polycarbonate UL94V-0	Light gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Color Type

Color code	Top cover color / Material	Base color / Material
BCAP[G]	White gray / ABS	White gray / ABS
BCAP[T]	Transparent / Polycarbonate	White gray / ABS
BCPC[S]	Light gray / Polycarbonate	Light gray / Glass fiber filled polycarbonate

■ Please suffix color code at the end of the product number.



BCAP Product no. / Details

Product no.	W	D	H	Weight (g)	
				G type	T type
BCAP091207□	90	120	70	196	204
BCAP091208□	90	120	85	212	221
BCAP101507□	100	150	70	272	281
BCAP101508□	100	150	85	291	300
BCAP112107□	110	210	75	359	378
BCAP112110□	110	210	100	422	420
BCAP112607□	110	260	75	431	446
BCAP112610□	110	260	100.5	484	500
BCAP131508□	135	155	85	356	357
BCAP131808□	135	185	85.5	381	410
BCAP131810□	135	185	100.5	396	402
BCAP151509□	150	150	90	343	353
BCAP151512□	150	150	120.5	411	425
BCAP162110□	160	210	100	468	486
BCAP162113□	160	210	130	517	537
BCAP162610□	160	260	100	577	601
BCAP162613□	160	260	130	673	701
BCAP172210□	170	220	105	545	581
BCAP172711□	170	270	110.5	670	680
BCAP192810□	190	280	100.5	722	746
BCAP192814□	190	280	141	877	901
BCAP203013□N	200	300	130	921	954
BCAP203015□N	200	300	150	989	1,022
BCAP203018□N	200	300	180	1,110	1,143
BCAP212110□	210	210	100	630	656
BCAP212113□	210	210	130	704	726
BCAP253515□N	250	350	150	1,278	1,320
BCAP253518□N	250	350	180	1,415	1,456
BCAP282813□	280	280	130.5	1,167	1,200
BCAP283813□	280	380	130	1,455	1,512
BCAP303015□	300	300	151	1,339	1,418
BCAP303018□	300	300	181	1,495	1,576
BCAP304012□	300	400	120	1,508	1,575
BCAP304015□	300	400	150	1,563	1,675
BCAP304018□	300	400	181	1,719	1,853
BCAP353515□	350	350	150	1,693	1,764
BCAP353518□	350	350	181	1,845	1,906
BCAP354512□	350	450	120	2,068	2,167
BCAP354516□	350	450	160	2,382	2,514
BCAP354520□	350	450	201	2,646	2,794
BCAP405016□	400	500	160	2,660	2,839
BCAP405020□	400	500	201	3,119	3,232
BCAP406018□	400	600	181	3,542	3,652
BCAP406023□	400	600	231	3,870	4,044
BCAP506018□	530	630	185	5,438	5,611
BCAP506025□	530	630	255	6,078	6,273
BCAP507018G	530	730	188	6,241	—
BCAP507025G	530	730	258	6,911	—
BCAP608018G	630	830	188	8,131	—
BCAP608028G	630	830	288	9,570	—

■ BCAP507018, 507025, 608018, and 608028 models are only available as G color type.

BCPC Product no. / Details

Product no.	W	D	H	Weight (g)
BCPC091207S	90	120	70	226
BCPC091208S	90	120	85	247
BCPC101507S	100	150	70	312
BCPC101508S	100	150	85	336
BCPC112107S	110	210	75	420
BCPC112110S	110	210	100	473
BCPC112607S	110	260	75	493
BCPC112610S	110	260	100.5	569
BCPC131508S	135	155	85	406
BCPC131808S	135	185	85.5	452
BCPC131810S	135	185	100.5	448
BCPC151509S	150	150	90	395
BCPC151512S	150	150	120.5	482
BCPC162110S	160	210	100	556
BCPC162113S	160	210	130	611
BCPC162610S	160	260	100	671
BCPC162613S	160	260	130	779
BCPC172210S	170	220	105	642
BCPC172711S	170	270	110.5	775
BCPC192810S	190	280	100.5	858
BCPC192814S	190	280	141	1,028
BCPC203013SN	200	300	130	1,070
BCPC203015SN	200	300	150	1,150
BCPC203018SN	200	300	180	1,295
BCPC212110S	210	210	100	742
BCPC212113S	210	210	130	827
BCPC253515SN	250	350	150	1,485
BCPC253518SN	250	350	180	1,648
BCPC282813S	280	280	130.5	1,371
BCPC283813S	280	380	130	1,695
BCPC303015S	300	300	151	1,610
BCPC303018S	300	300	181	1,760
BCPC304012S	300	400	120	1,846
BCPC304015S	300	400	150	1,862
BCPC304018S	300	400	181	2,030
BCPC353515S	350	350	150	2,045
BCPC353518S	350	350	181	2,142
BCPC354512S	350	450	120	2,397
BCPC354516S	350	450	160	2,826
BCPC354520S	350	450	201	3,151
BCPC405016S	400	500	160	3,188
BCPC405020S	400	500	201	3,811
BCPC406018S	400	600	181	4,153
BCPC406023S	400	600	231	4,637
BCPC506018S	530	630	185	6,305
BCPC506025S	530	630	255	7,213
BCPC507018S	530	730	188	7,410
BCPC507025S	530	730	258	8,200
BCPC608018S	630	830	188	9,820
BCPC608028S	630	830	288	11,550

■ Refer to page 137 ~ 140 for detailed dimensions.

Accessories (Optional parts)



Mounting plate BMP series
See page 143 ~ 145



Mounting bracket CK • BFL series
See page 146



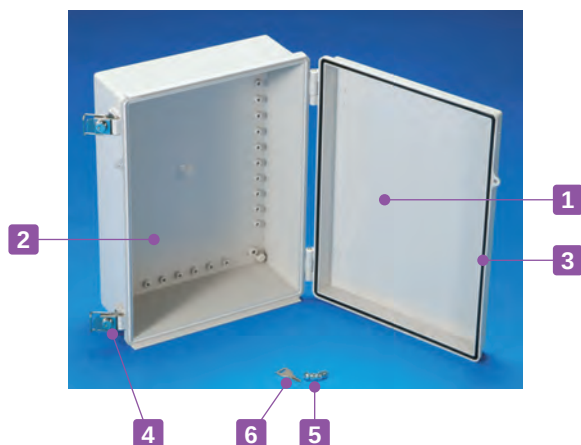
Pole mounting bracket SSK series
See page 205 ~ 208



Cable gland
See page 181 ~ 193



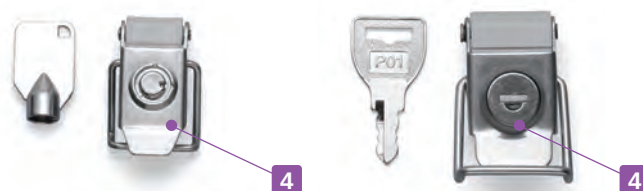
Ventilation parts
See page 195 ~ 202



Technical Data

Protection class : IP65
Operating temperature : -20°C ~ +75°C

*Lock types vary according to box size.



- Lockable enclosure best used for tamper prevention in FA, control box, and network communication fields.
- BCPK polycarbonate box is resistant against heat and flames.
50 different sizes available and selectable from 2 different cover types, Light gray and Transparent (BTO).

Box size
BCPK091207 ~ 172711
BCPK212110, 212113

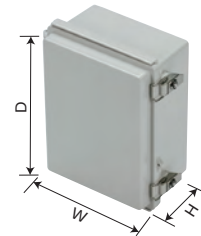
Box size
BCPK192810 ~ 203018
BCPK253515 ~ 608028

- BCAP507018, 507025, 608018, and 608028 models are only available as S color type.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate UL94V-0	Light gray
2	Base	1	Glass fiber filled polycarbonate UL94V-0	Light gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate
6	Key	1 ~ 3	Diecast zinc • Brass	Chrome plated • Nickel plated

- Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.
- Quantity of keys provided vary by the number of locks present.



Product no. / Details

Product no.	W	D	H	Weight (g)	Delivery time
BCPK091207S	90	120	70	242	In stock
BCPK091208S	90	120	85	264	In stock
BCPK101507S	100	150	70	339	In stock
BCPK101508S	100	150	85	360	In stock
BCPK112107S	110	210	75	437	In stock
BCPK112110S	110	210	100	501	In stock
BCPK112607S	110	260	75	520	In stock
BCPK112610S	110	260	100.5	585	In stock
BCPK131508S	135	155	85	430	In stock
BCPK131808S	135	185	85.5	474	In stock
BCPK131810S	135	185	100.5	471	In stock
BCPK151509S	150	150	90	419	In stock
BCPK151512S	150	150	120.5	507	In stock
BCPK162110S	160	210	100	563	In stock
BCPK162113S	160	210	130	630	In stock
BCPK162610S	160	260	100	728	In stock
BCPK162613S	160	260	130	805	In stock
BCPK172210S	170	220	105	664	In stock
BCPK172711S	170	270	110.5	771	In stock
BCPK192810S	190	280	100.5	875	In stock
BCPK192814S	190	280	141	1,065	In stock
BCPK203013SN	200	300	130	1,098	In stock
BCPK203015SN	200	300	150	1,179	In stock
BCPK203018SN	200	300	180	1,324	In stock
BCPK212110S	210	210	100	743	In stock
BCPK212113S	210	210	130	822	In stock
BCPK253515SN	250	350	150	1,513	In stock
BCPK253518SN	250	350	180	1,676	In stock
BCPK282813S	280	280	130.5	1,391	In stock
BCPK283813S	280	380	130	1,811	In stock
BCPK303015S	300	300	151	1,670	In stock
BCPK303018S	300	300	181	1,782	In stock
BCPK304012S	300	400	120	1,858	In stock
BCPK304015S	300	400	150	1,912	In stock
BCPK304018S	300	400	181	2,083	In stock
BCPK353515S	350	350	150	2,067	In stock
BCPK353518S	350	350	181	2,175	In stock
BCPK354512S	350	450	120	2,442	In stock
BCPK354516S	350	450	160	2,863	In stock
BCPK354520S	350	450	201	3,156	In stock
BCPK405016S	400	500	160	3,149	In stock
BCPK405020S	400	500	201	3,725	In stock
BCPK406018S	400	600	181	4,159	In stock
BCPK406023S	400	600	231	4,639	In stock
BCPK506018S	530	630	185	5,339	In stock
BCPK506025S	530	630	255	7,136	In stock
BCPK507018S	530	730	188	7,470	In stock
BCPK507025S	530	730	258	8,260	In stock
BCPK608018S	630	830	188	9,880	In stock
BCPK608028S	630	830	288	11,610	In stock

Product no. / Details

Product no.	W	D	H	Weight (g)	Delivery time
BCPK091207T	90	120	70	237	2 months
BCPK091208T	90	120	85	261	2 months
BCPK101507T	100	150	70	337	2 months
BCPK101508T	100	150	85	335	2 months
BCPK112107T	110	210	75	444	2 months
BCPK112110T	110	210	100	509	2 months
BCPK112607T	110	260	75	528	2 months
BCPK112610T	110	260	100.5	594	2 months
BCPK131508T	135	155	85	421	2 months
BCPK131808T	135	185	85.5	475	2 months
BCPK131810T	135	185	100.5	478	2 months
BCPK151509T	150	150	90	422	2 months
BCPK151512T	150	150	120.5	508	2 months
BCPK162110T	160	210	100	721	2 months
BCPK162113T	160	210	130	639	2 months
BCPK162610T	160	260	100	738	2 months
BCPK162613T	160	260	130	825	2 months
BCPK172210T	170	220	105	681	2 months
BCPK172711T	170	270	110.5	794	2 months
BCPK192810T	190	280	100.5	900	2 months
BCPK192814T	190	280	141	1,094	2 months
BCPK203013TN	200	300	130	1,097	2 months
BCPK203015TN	200	300	150	1,178	2 months
BCPK203018TN	200	300	180	1,323	2 months
BCPK212110T	210	210	100	756	2 months
BCPK212113T	210	210	130	847	2 months
BCPK253515TN	250	350	150	1,510	2 months
BCPK253518TN	250	350	180	1,673	2 months
BCPK282813T	280	280	130.5	1,433	2 months
BCPK283813T	280	380	130	1,733	2 months
BCPK303015T	300	300	151	1,682	2 months
BCPK303018T	300	300	181	1,795	2 months
BCPK304012T	300	400	120	1,872	2 months
BCPK304015T	300	400	150	1,926	2 months
BCPK304018T	300	400	181	2,098	2 months
BCPK353515T	350	350	150	1,999	2 months
BCPK353518T	350	350	181	2,163	2 months
BCPK354512T	350	450	120	2,429	2 months
BCPK354516T	350	450	160	2,848	2 months
BCPK354520T	350	450	201	3,140	2 months
BCPK405016T	400	500	160	3,152	2 months
BCPK405020T	400	500	201	3,729	2 months
BCPK406018T	400	600	181	4,164	2 months
BCPK406023T	400	600	231	4,645	2 months
BCPK506018T	530	630	185	6,151	2 months
BCPK506025T	530	630	255	8,220	2 months
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—

■ Refer to page 137 ~ 140 for detailed dimensions.

Accessories (Optional parts)



Dust protection cap BCC series
See page 142



Mounting plate BMP series
See page 143 ~ 145



Mounting bracket CK • BFL series
See page 146



Cable gland
See page 181 ~ 193



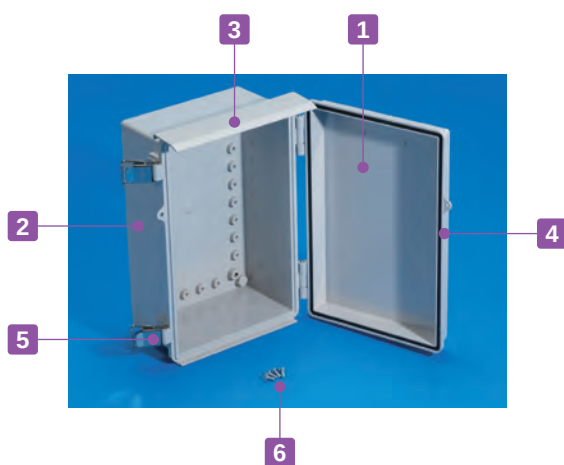
Ventilation parts
See page 195 ~ 202

BCAR series

IP65 ABS PLASTIC BOX with OUTDOOR ROOF

BCPR series

IP65 POLYCARBONATE PLASTIC BOX with OUTDOOR ROOF



Technical Data

Protection class : IP65
 Operating temperature:
 BCAR -10°C ~ +60°C
 BCPR -20°C ~ +75°C

- Suitable for outdoor use by equipping easy snap-on roof attachment.
- 44 different sizes available.
- Applicable for various uses in fields such as FA, network communication, power switch controls and more.
- BCAR series is made of white gray ABS with 2 different cover types (white gray ABS and transparent polycarbonate) available.
- BCPR series is made of light gray UL94V-0 polycarbonate, which has good heat resistant properties.
- Transparent cover type is not available for BCAR507018, 507025, 608018, and 608028 models.

Components : BCAR series

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB • Polycarbonate UL94V-0	White gray • Transparent
2	Base	1	ABS UL94HB	White gray
3	Roof	1	PVC	White gray
4	Gasket	1	Polyurethane	Black
5	Latch	1 ~ 3	Stainless steel	Unfinished
6	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Components : BCPR series

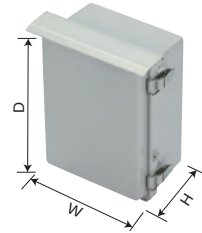
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate UL94V-0	Light gray
2	Base	1	Glass fiber filled polycarbonate UL94V-0	Light gray
3	Roof	1	PVC	Light gray
4	Gasket	1	Polyurethane	Black
5	Latch	1 ~ 3	Stainless steel	Unfinished
6	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Color Type

Color code	Top cover color / Material	Base color / Material
BCAR[G]	White gray / ABS	White gray / ABS
BCAR[T]	Transparent / Polycarbonate	White gray / ABS
BCPR[S]	Light gray / Polycarbonate	Light gray / Glass fiber filled polycarbonate

■ Please suffix color code at the end of the product number.



BCAR Product no. / Details

Product no.	W	D	H	Weight (g)	
				G type	T type
BCAR091207□	90	120	70	213	220
BCAR091208□	90	120	85	228	237
BCAR101507□	100	150	70	291	300
BCAR101508□	100	150	85	309	318
BCAR112107□	110	210	75	379	398
BCAR112110□	110	210	100	442	440
BCAR112607□	110	260	75	451	466
BCAR112610□	110	260	100.5	504	519
BCAR131508□	135	155	85	379	381
BCAR131808□	135	185	85.5	404	434
BCAR131810□	135	185	100.5	420	426
BCAR162110□	160	210	100	495	513
BCAR162113□	160	210	130	544	564
BCAR162610□	160	260	100	605	629
BCAR162613□	160	260	130	701	729
BCAR172210□	170	220	105	570	606
BCAR172711□	170	270	110.5	700	710
BCAR192810□	190	280	100.5	755	778
BCAR192814□	190	280	141	909	933
BCAR203013□N	200	300	130	959	992
BCAR203015□N	200	300	150	1,027	1,060
BCAR203018□N	200	300	180	1,148	1,181
BCAR212110□	210	210	100	666	692
BCAR212113□	210	210	130	740	762
BCAR253515□N	250	350	150	1,324	1,366
BCAR253518□N	250	350	180	1,461	1,503
BCAR282813□	280	280	130.5	1,218	1,251
BCAR283813□	280	380	130	1,506	1,563
BCAR303015□	300	300	151	1,393	1,472
BCAR303018□	300	300	181	1,549	1,630
BCAR304012□	300	400	120	1,562	1,629
BCAR304015□	300	400	150	1,617	1,729
BCAR304018□	300	400	181	1,773	1,907
BCAR353515□	350	350	150	1,757	1,827
BCAR353518□	350	350	181	1,908	1,970
BCAR354512□	350	450	120	2,140	2,239
BCAR354516□	350	450	160	2,454	2,586
BCAR354520□	350	450	201	2,718	2,866
BCAR506018□	530	630	185	5,564	5,737
BCAR506025□	530	630	255	6,203	6,399
BCAR507018G	530	730	188	6,366	—
BCAR507025G	530	730	258	7,037	—
BCAR608018G	630	830	188	8,279	—
BCAR608028G	630	830	288	9,719	—

■ BCAR507018, 507025, 608018, and 608028 models are only available as G color type.

BCPR Product no. / Details

Product no.	W	D	H	Weight (g)
BCPR091207S	90	120	70	242
BCPR091208S	90	120	85	264
BCPR101507S	100	150	70	330
BCPR101508S	100	150	85	354
BCPR112107S	110	210	75	439
BCPR112110S	110	210	100	493
BCPR112607S	110	260	75	513
BCPR112610S	110	260	100.5	589
BCPR131508S	135	155	85	429
BCPR131808S	135	185	85.5	475
BCPR131810S	135	185	100.5	471
BCPR162110S	160	210	100	583
BCPR162113S	160	210	130	638
BCPR162610S	160	260	100	699
BCPR162613S	160	260	130	806
BCPR172210S	170	220	105	667
BCPR172711S	170	270	110.5	803
BCPR192810S	190	280	100.5	889
BCPR192814S	190	280	141	1,060
BCPR203013SN	200	300	130	1,108
BCPR203015SN	200	300	150	1,188
BCPR203018SN	200	300	180	1,333
BCPR212110S	210	210	100	777
BCPR212113S	210	210	130	862
BCPR253515SN	250	350	150	1,531
BCPR253518SN	250	350	180	1,694
BCPR282813S	280	280	130.5	1,422
BCPR283813S	280	380	130	1,747
BCPR303015S	300	300	151	1,665
BCPR303018S	300	300	181	1,814
BCPR304012S	300	400	120	1,901
BCPR304015S	300	400	150	1,917
BCPR304018S	300	400	181	2,084
BCPR353515S	350	350	150	2,109
BCPR353518S	350	350	181	2,206
BCPR354512S	350	450	120	2,471
BCPR354516S	350	450	160	2,899
BCPR354520S	350	450	201	3,224
BCPR506018S	530	630	185	6,431
BCPR506025S	530	630	255	7,339
BCPR507018S	530	730	188	7,630
BCPR507025S	530	730	258	8,420
BCPR608018S	630	830	188	10,040
BCPR608028S	630	830	288	11,770

■ Refer to page 137 ~ 140 for detailed dimensions.

Accessories (Optional parts)



Mounting plate BMP series
See page 143 ~ 145



Mounting bracket CK • BFL series
See page 146



Pole mounting bracket SSK series
See page 205 ~ 208



Cable gland
See page 181 ~ 193

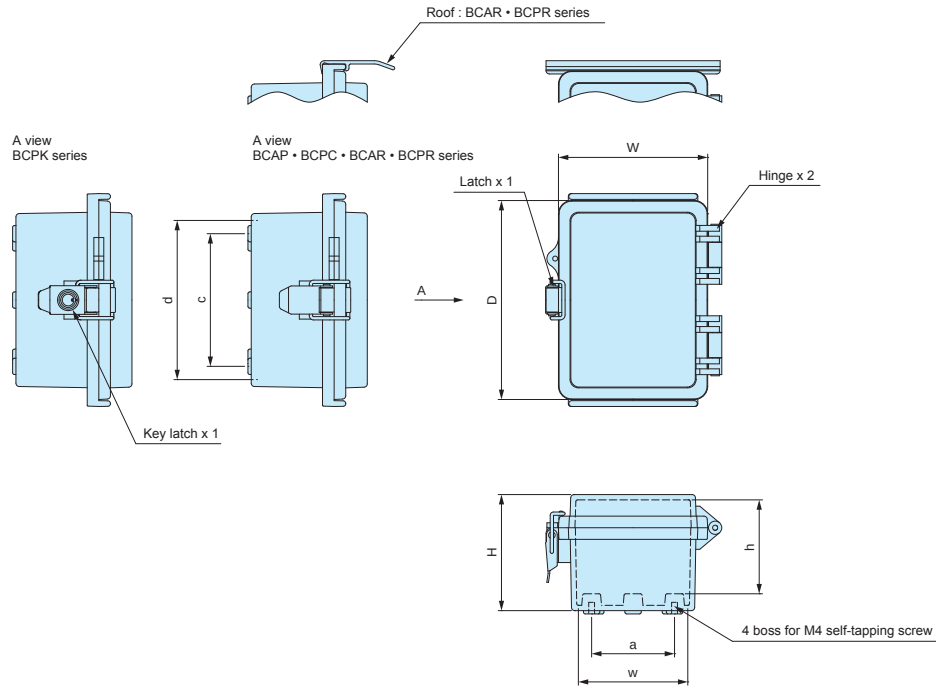


Ventilation parts
See page 195 ~ 202

BCAP • BCPC • BCPK • BCAR • BCPR dimensions

■ DXF/DWG/PDF drawings available on our website.

091207 • 091208



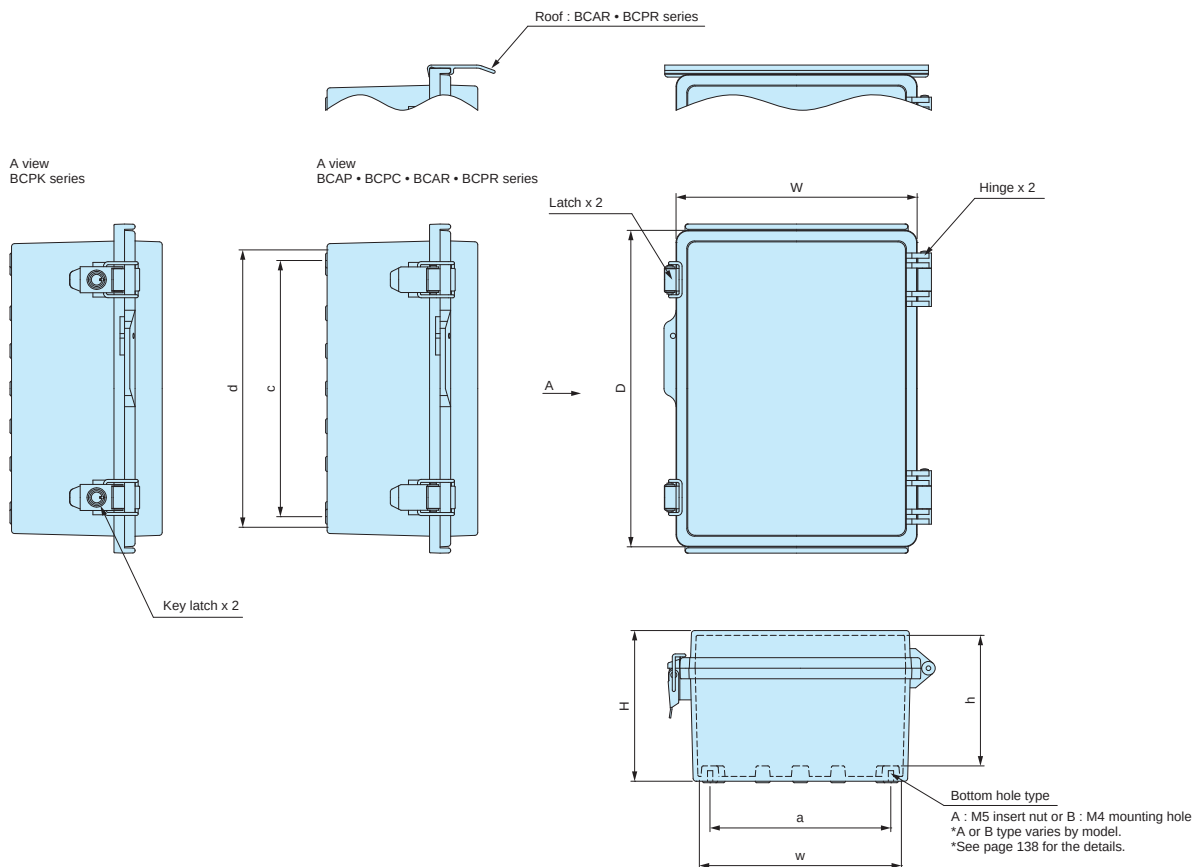
Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch	
				w	d	h	a	c
BCAP • R, BCPC • K • R091207	90	120	70	66	96	56.5	50	80
BCAP • R, BCPC • K • R091208	90	120	85	66	96	71.5	50	80

■ K = BCPK series, R = BCAR • BCPR series.

101507 ~ 405020

※ Not available for BCAR • BCPR 151509, 151512, 405016, and 405020 models.





■ Number of bosses inside vary according to box size.
Refer to DXF/DWG/PDF drawings for more details.

APPLICATION EXAMPLE



Surveillance Video Data Cloud Router

Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch		Bottom hole type
				w	d	h	a	c	
BCAP • R, BCPC • K • R101507	100	150	70	76	126	56.5	60	110	B
BCAP • R, BCPC • K • R101508	100	150	85	75.5	125.5	71.5	60	110	B
BCAP • R, BCPC • K • R112107	110	210	75	85.8	185.8	61.5	70	170	B
BCAP • R, BCPC • K • R112110	110	210	100	84.9	184.9	86.5	70	170	B
BCAP • R, BCPC • K • R112607	110	260	75	85.8	235.8	61.5	70	220	B
BCAP • R, BCPC • K • R112610	110	260	100.5	85.1	234.9	87.2	70	220	B
BCAP • R, BCPC • K • R131508	135	155	85	110.5	130.5	71.5	95	115	B
BCAP • R, BCPC • K • R131808	135	185	85.5	110.4	160.4	72.2	95	145	B
BCAP • R, BCPC • K • R131810	135	185	100.5	110.4	160.4	87.1	95	145	B
BCAP, BCPC • K 151509	150	150	90	125.7	125.7	75.5	120	120	B
BCAP, BCPC • K 151512	150	150	120.5	124	124	106	117	117	B
BCAP • R, BCPC • K • R162110	160	210	100	134	184	86.6	120	170	B
BCAP • R, BCPC • K • R162113	160	210	130	134	184	116.5	120	170	B
BCAP • R, BCPC • K • R162610	160	260	100	135.1	235.1	86.6	120	220	B
BCAP • R, BCPC • K • R162613	160	260	130	134	234	116.6	120	220	B
BCAP • R, BCPC • K • R172211	170	220	110.5	144.9	194.9	96.1	132	182	B
BCAP • R, BCPC • K • R172711	170	270	110.5	144.9	244.9	96.1	132	232	B
BCAP • R, BCPC • K • R192810	190	280	100.5	165.3	255.3	84.1	148	238	A
BCAP • R, BCPC • K • R192814	190	280	141	164.2	254.2	124.6	148	238	A
BCAP • R, BCPC • K • R203013□N	200	300	130	173.5	273.6	113.6	152	252	A
BCAP • R, BCPC • K • R203015□N	200	300	151.5	173.5	273.5	135.1	152	252	A
BCAP • R, BCPC • K • R203018□N	200	300	180.5	172.5	272.5	164.1	152	252	A
BCAP • R, BCPC • K • R212110	210	210	100	185.1	185.1	86.6	170	170	B
BCAP • R, BCPC • K • R212113	210	210	130	184	184	116.6	170	170	B
BCAP • R, BCPC • K • R253515□N	250	350	151	222.5	322.5	135.3	206	306	A
BCAP • R, BCPC • K • R253518□N	250	350	180	222.5	322.5	165.8	206	306	A
BCAP • R, BCPC • K • R282813	280	280	130.5	254	254	113.6	238	238	A
BCAP • R, BCPC • K • R283813	280	380	130	254	354	113.6	238	338	A
BCAP • R, BCPC • K • R303015	300	300	151	273	273	134.3	256	256	A
BCAP • R, BCPC • K • R303018	300	300	181	272.5	272.5	164.3	256	256	A
BCAP • R, BCPC • K • R304012	300	400	120	274.5	374.5	103.6	252	352	A
BCAP • R, BCPC • K • R304015	300	400	150	273.5	373.5	133.6	252	352	A
BCAP • R, BCPC • K • R304018	300	400	181	272.5	372.5	164.6	252	352	A
BCAP • R, BCPC • K • R353515	350	350	150	323.6	323.6	133.6	302	302	A
BCAP • R, BCPC • K • R353518	350	350	181	322.5	322.5	164.6	302	302	A
BCAP • R, BCPC • K • R354512	350	450	120	316.7	416.7	103.3	302	402	A
BCAP • R, BCPC • K • R354516	350	450	160	308.7	414.7	142.6	302	402	A
BCAP • R, BCPC • K • R354520	350	450	201	309.3	414.8	183.6	302	402	A
BCAP, BCPC • K 405016	400	500	160	360.4	466.6	144	352	452	A
BCAP, BCPC • K 405020	400	500	201	359.4	465.5	184	352.5	452.5	A

■ K = BCPK series, R = BCAR • BCPR series.

BCAP • BCPC • BCPK • BCAR • BCPR dimensions

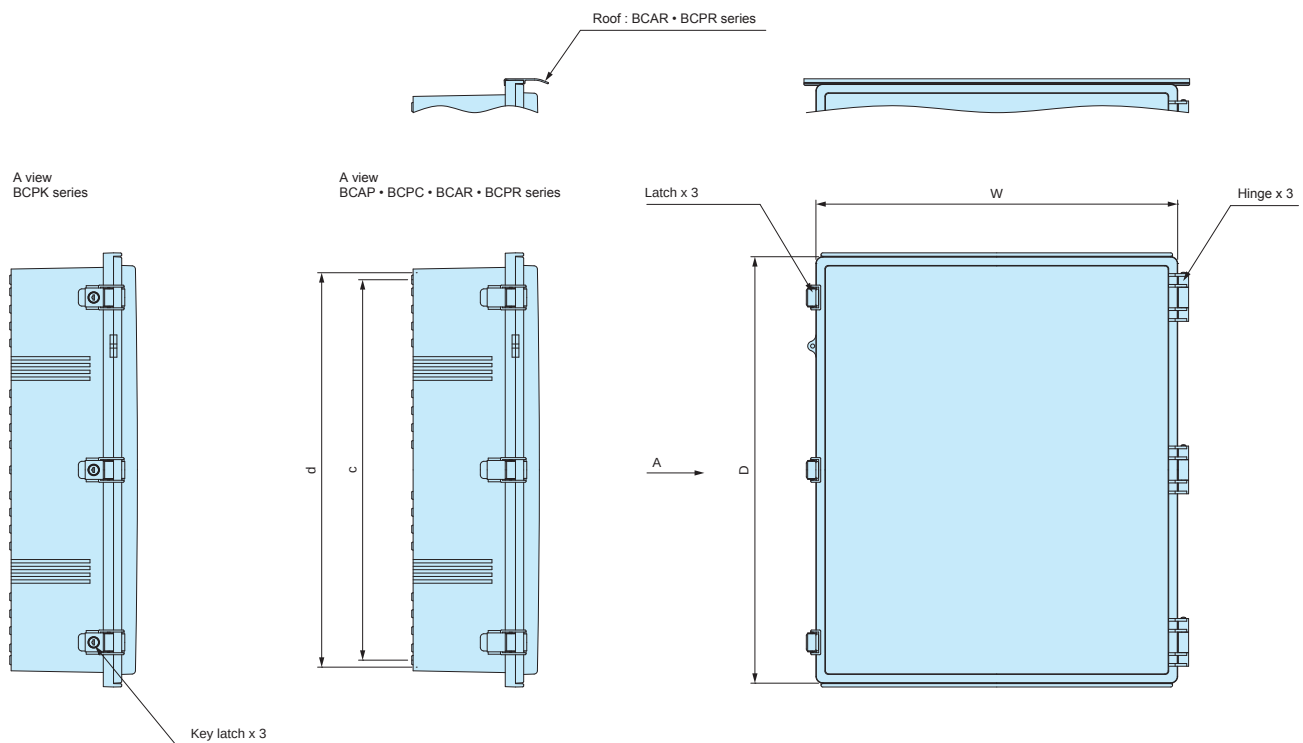
406018 ~ 507025

※ Not available for BCAR • BCPR 406018 and 406023 models.

■ DXF/DWG/PDF drawings available on our website.



■ Number of bosses inside vary according to box size.
Refer to DXF/DWG/PDF drawings for more details.



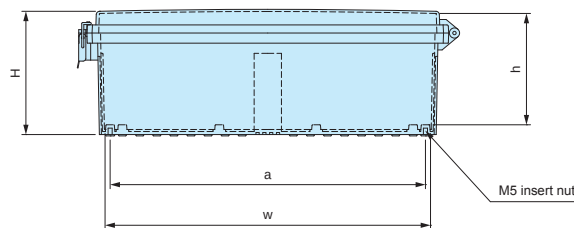
Attention when locking the latch

1. Close latches on both ends first.

2. Close center latch next.

※ Closing center latch first may cause a non-watertight seal.

Center latch must be closed last!

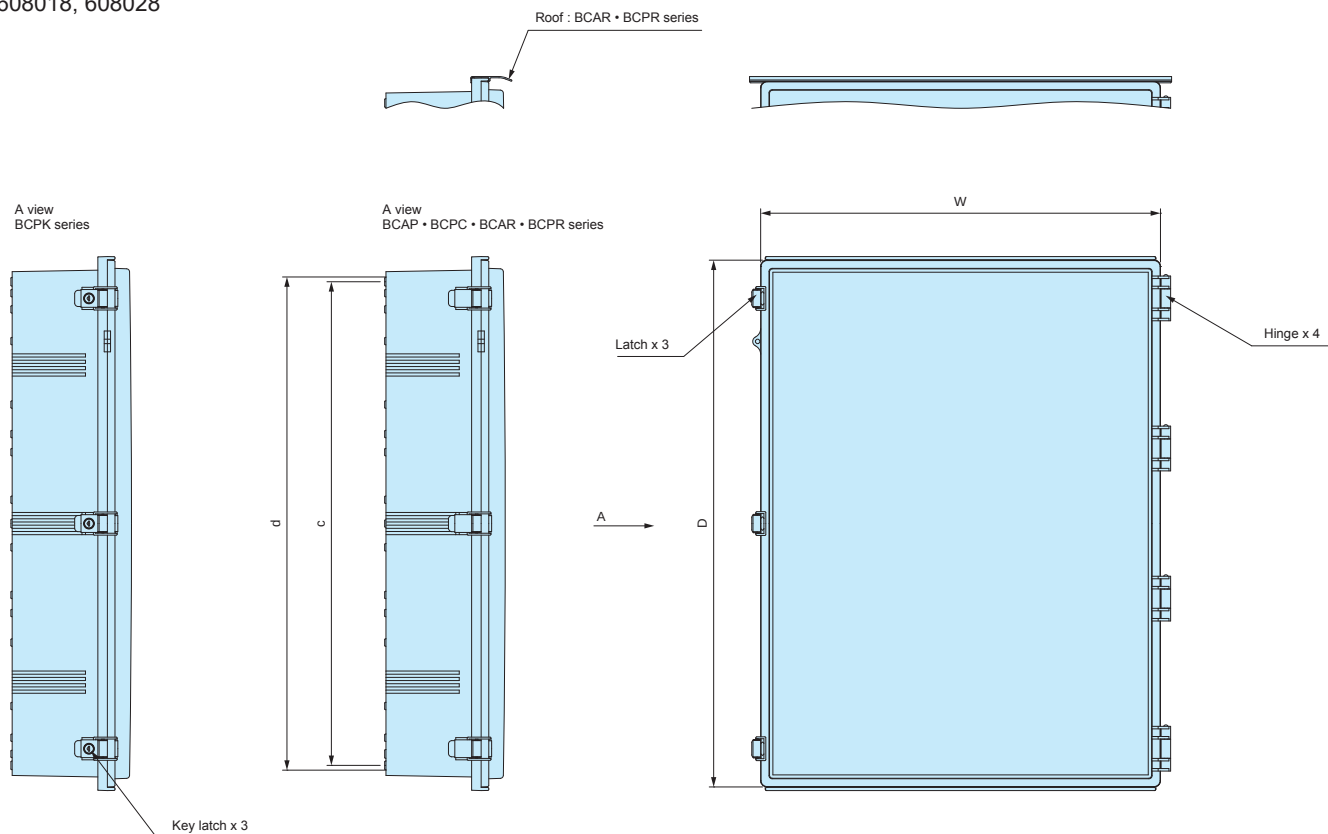


Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch	
				w	d	h	a	c
BCAP, BCPC • K 406018	400	600	181	358.6	565.9	163.8	352.5	552.5
BCAP, BCPC • K 406023	400	600	231	356.9	564.1	213.8	352	552.5
BCAP, R, BCPC • K • R506018	530	630	185	476.8	576.8	163.6	462	562
BCAP, R, BCPC • K • R506025	530	630	255	474.6	574.6	233.6	462	562
BCAP, R, BCPC • K • R507018	530	730	188	477	677	166.1	462	662
BCAP, R, BCPC • K • R507025	530	730	255	475	676.2	236	462	662

■ K = BCPK series, R = BCAR • BCPR series.

608018, 608028

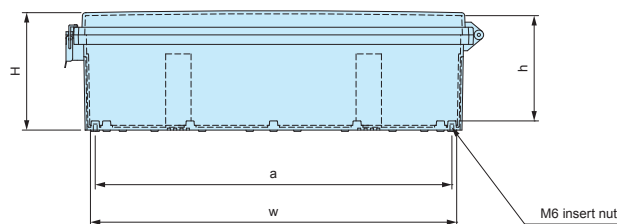


Attention when locking the latch

1. Close latches on both ends first.
2. Close center latch next.

※ Closing center latch first may cause a non-watertight seal.

Center latch must be closed last!

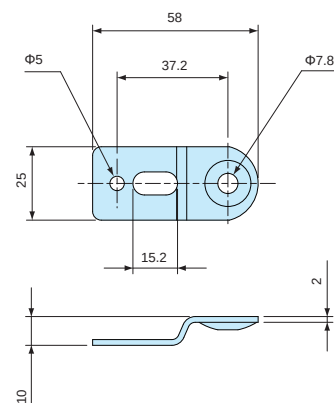


Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch	
				w	d	h	a	c
BCAP • R, BCPC • K • R608018	630	830	188	575	777	165.6	562	762
BCAP • R, BCPC • K • R608028	630	830	288	573.5	773.5	265.8	562	762

■ K = BCPK series, R = BCAR • BCPR series.

Included stainless steel mounting bracket for 506018, 506025, 507018, 507025, 608018, and 608028



Components

Part name	Pcs	Material	Finish
Mounting bracket	6	Stainless steel	Unfinished
Screw	6	Steel	Trivalent chromate

BRF series

OUTDOOR ROOF



- Recommended to be used for outdoor environments for protection against rain etc.
- Snap-in easy installation.
- Available for use with BCAP, BCPC, and BCPK series' models except 151509, 151512, 405016, 405020, 406018, and 406023 models.

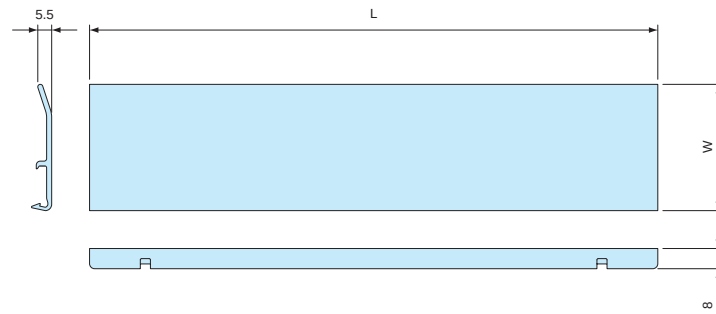
Color Type

Color code	Material	Color	Suitable models
G	PVC	White gray	BCAP
S	PVC	Light gray	BCPC • BCPK

BRF dimensions

Roof for 091207 ~ 353518

■ DXF/DWG/PDF drawings available on our website.

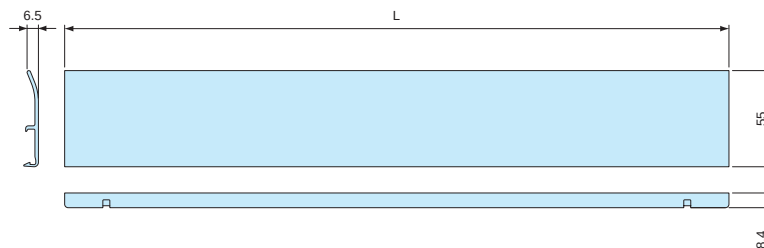


Product no. / Details

■ Please suffix the color code at the end of the product number.

Product no.	Suitable models	L	W
BRF- 90□	BCAP • BCPC • BCPK 091207 091208	105	45
BRF-100□	BCAP • BCPC • BCPK 101507 101508	115	45
BRF-110□	BCAP • BCPC • BCPK 112107 112110 112607 112610	125	45
BRF-135□	BCAP • BCPC • BCPK 131508 131808 131810	150	45
BRF-160□	BCAP • BCPC • BCPK 162110 162113 162610 162613	175	45
BRF-170□	BCAP • BCPC • BCPK 172711	185	45
BRF-1722□	BCAP • BCPC • BCPK 172210	180	45
BRF-190□	BCAP • BCPC • BCPK 192810 192814	205	45
BRF-210□	BCAP • BCPC • BCPK 212110 212113	225	45
BRF-200□N	BCAP • BCPC • BCPK 203013□N 203015□N 203018□N	225	50
BRF-250□N	BCAP • BCPC • BCPK 253515□N 253518□N	275	50
BRF-280□	BCAP • BCPC • BCPK 282813 283813	305	50
BRF-300□	BCAP • BCPC • BCPK 303015 303018 304012 304015 304018	325	50
BRF-350□	BCAP • BCPC • BCPK 353515 353518	375	50

Roof for 354512 ~ 354520



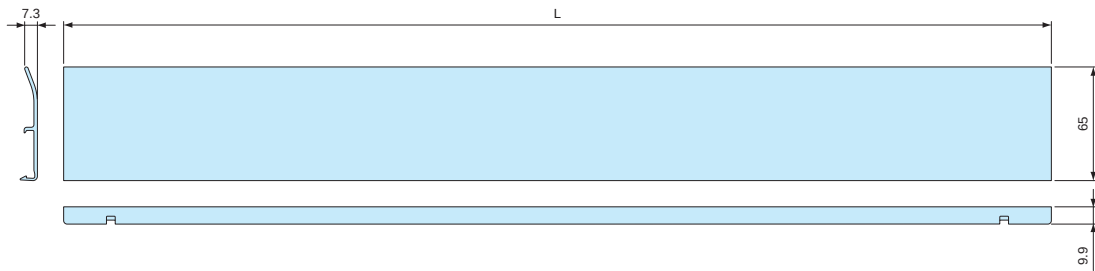
Product no. / Details

■ Please suffix the color code at the end of the product number.

Product no.	Suitable models	L
BRF-350L□	BCAP • BCPC • BCPK 354512 354516 354520	380

■ S color type is light gray painted.

Roof for 506018 ~ 608028



Product no. / Details

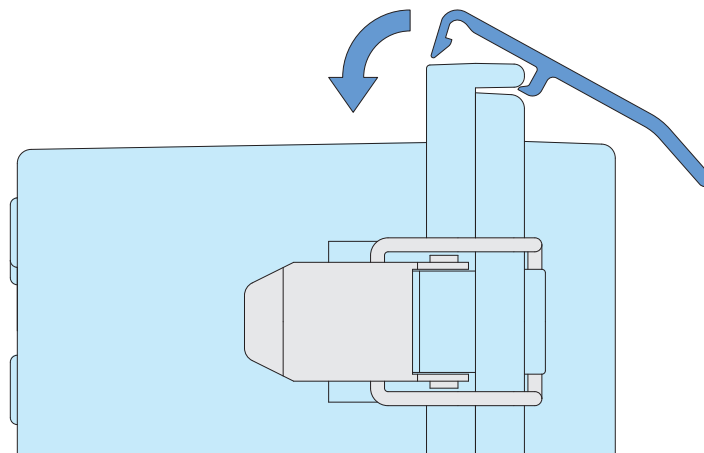
■ Please suffix the color code at the end of the product number.

Product no.	Suitable models	L
BRF-530□	BCAP • BCPC • BCPK 506018 506025 507018 507025	565
BRF-630□	BCAP • BCPC • BCPK 608018 608028	665

■ S color type is light gray painted.

■ How to install BRF outdoor roof

Refer to illustration.



BCC-1 DUST PROTECTION CAP



- Prevents dust and other foreign material entry.
- Protection against corrosion on key hole part in environments such as coastal areas.
- When ordering, please ensure that the quantity required corresponds to the number of latches on your selected model.

Product no. / Details

Product no.	Material	Color	Pack of
BCC-1	Silicone	Black	1

Suitable models

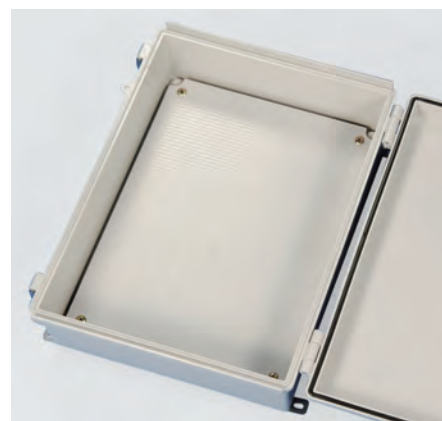
Suitable models	Required
BCPK192810 ~ 203018, 253515 ~ 405020	2
BCPK406018 ~ 608028	3

■ Not suitable for BCPK 212110, 212113, 172711 and smaller models.

BMP-P series

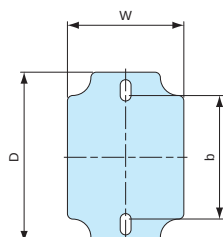
PLASTIC MOUNTING PLATE

- Light weight ABS plastic mounting plate.

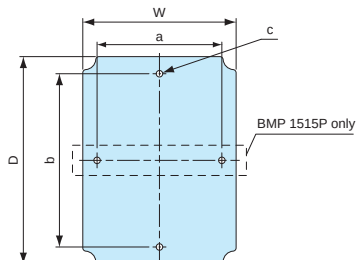


BMP-P dimensions

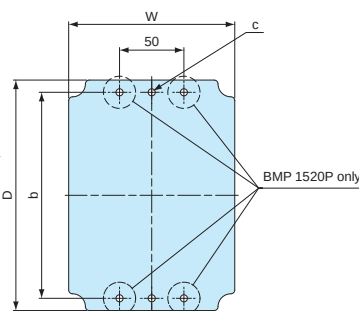
BMP0811P



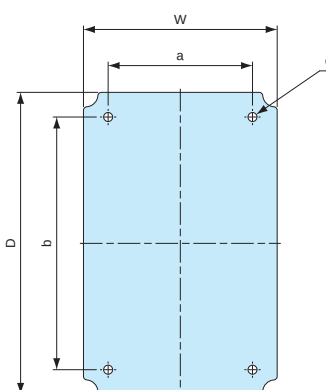
BMP0813P ~ 1515P



BMP1520P, 1525P



BMP1928P ~ 4050P



- DXF/DWG/PDF drawings available on our website.

Components

Part name	Material	Color
Mounting plate	ABS	White gray

Product no. / Details

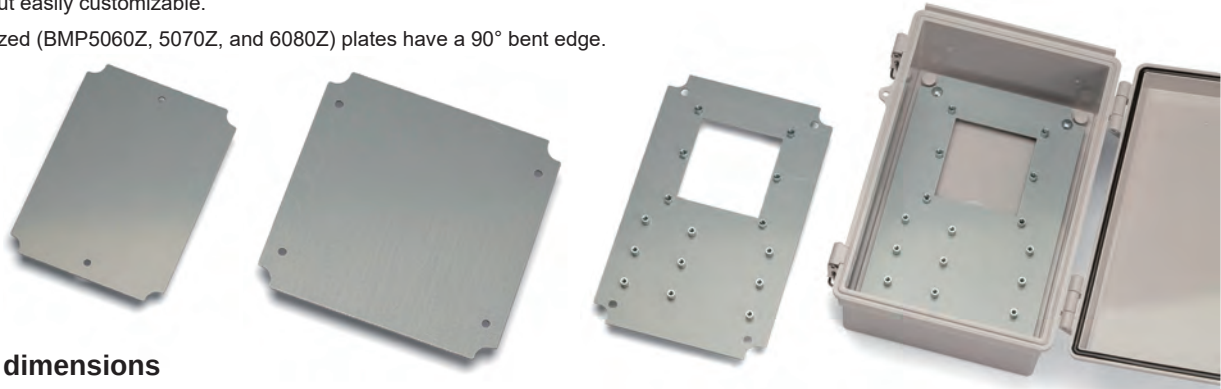
Product no.	W	D	a	b	c (Φ)	Thickness	Suitable models	Weight (g)
BMP0811P	64.5	94.3	—	68.4	—	3.5	BCAP • R, BCPC • K • R 091207, 091208	21
BMP0813P	64.6	114.5	—	88.4	—	3.5	BCAP • R, BCPC • K • R 101507, 101508	24
BMP1121P	76.5	176	—	157.8	6	3	BCAP • R, BCPC • K • R 112107, 112110	40
BMP1126P	76.5	226	—	208	6	3	BCAP • R, BCPC • K • R 112607, 112610	53
BMP1315P	101.5	121.5	—	110	5.5	3.5	BCAP • R, BCPC • K • R 131508	36
BMP1217P	110	160	—	140	6	3.5	BCAP • R, BCPC • K • R 131808, 131810	62
BMP1515P	123	123	110	110	6	3.5	BCAP BCPC • K 151509, 151512	52
BMP1520P	129	179	—	160	5.5	3.5	BCAP • R, BCPC • K • R 162110, 162113, 172210	92
BMP1525P	129	228.5	—	210	6	3.5	BCAP • R, BCPC • K • R 162610, 162613, 172711	112
BMP1928P	158.5	248	120	210	8	3.5	BCAP • R, BCPC • K • R 192810, 192814	162
BMP2020P	178.5	178.5	120	150	5.5	3.5	BCAP • R, BCPC • K • R 212110, 212113	125
BMP2030P	166.5	266	128	225.5	8	4	BCAP • R, BCPC • K • R 203013, 203015, 203018	188
BMP2535P	215.5	315	180	268.5	8	4	BCAP • R, BCPC • K • R 253515, 253518	292
BMP2828P	248.5	248.5	210	210	8	4	BCAP • R, BCPC • K • R 282813	237
BMP2838P	248	347.5	209	309.5	8	4	BCAP • R, BCPC • K • R 283813	368
BMP3030P	262.5	262.5	219	219	7.5	4	BCAP • R, BCPC • K • R 303015, 303018	281
BMP3040P	264	364	228	324	7	3.7	BCAP • R, BCPC • K • R 304012, 304015, 304018	437
BMP3535P	313.5	313.5	269.5	269.5	8	4	BCAP • R, BCPC • K • R 353515, 353518	424.5
BMP3545P	305	405.5	273	364	8	4	BCAP • R, BCPC • K • R 354512, 354516, 354520	539
BMP4050P	357	457	328	428	8.5	4	BCAP BCPC • K 405016, 405020	725.5

- K = BCPK series, R = BCAR • BCPR series.

BMP-Z series

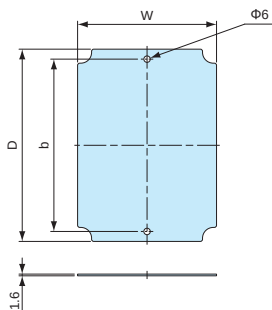
STEEL MOUNTING PLATE

- Customization services (machining, punch press or clinching nut insertion) are available. See website for more details.
- Tough but easily customizable.
- Large sized (BMP5060Z, 5070Z, and 6080Z) plates have a 90° bent edge.

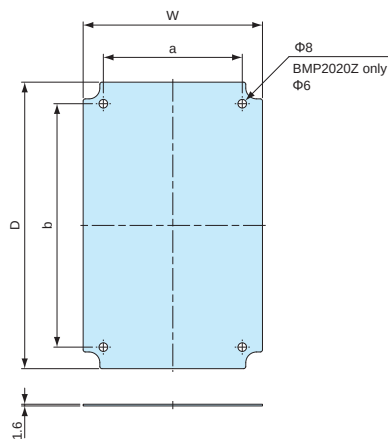


BMP-Z dimensions

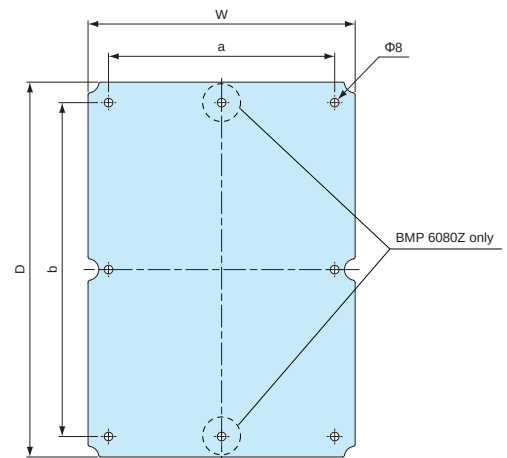
BMP0912Z ~ 1727Z



BMP1928Z ~ 4060Z



BMP5060Z ~ 6080Z



Components

Part name	Material	Finish
Mounting plate	Steel SECC t = 1.6	Zinc coated

Product no. / Details

■ DXF/DWG/PDF drawings available on our website.

Product no.	W	D	a	b	Suitable models	Screw	Weight (g)
BMP0912Z	58	88	—	69	BCAP • R, BCPC • K • R 091207, 091208	—	53
BMP0813Z	68	118	—	100	BCAP • R, BCPC • K • R 101507, 101508	—	87
BMP1121Z	77	177	—	158	BCAP • R, BCPC • K • R 112107, 112110	—	159
BMP1126Z	77	227	—	208	BCAP • R, BCPC • K • R 112607, 112610	—	210
BMP1315Z	102	122	—	110	BCAP • R, BCPC • K • R 131508	—	141
BMP1217Z	102	152	—	140	BCAP • R, BCPC • K • R 131808, 131810	—	180
BMP1515Z	121	121	—	110	BCAP BCPC • K 151509, 151512	—	172
BMP1520Z	126	176	—	160	BCAP • R, BCPC • K • R 162110, 162113	—	262
BMP1525Z	127	227	—	210	BCAP • R, BCPC • K • R 162610, 162613	—	346
BMP1722Z	137	187	—	160	BCAP • R, BCPC • K • R 172210	—	308
BMP1727Z	137	237	—	210	BCAP • R, BCPC • K • R 172711	—	391
BMP1928Z	157	247	120	210	BCAP • R, BCPC • K • R 192810, 192814	M5-8 × 4 pcs	462.5
BMP2020Z	176	176	120	150	BCAP • R, BCPC • K • R 212110, 212113	—	371
BMP2030Z	165	265	129	226	BCAP • R, BCPC • K • R 203013, 203015, 203018	M5-8 × 4 pcs	519
BMP2535Z	215	315	180	270	BCAP • R, BCPC • K • R 253515, 253518	M5-8 × 4 pcs	816
BMP2828Z	246	246	210	210	BCAP • R, BCPC • K • R 282813	M5-8 × 4 pcs	727.5
BMP2838Z	246	346	210	310	BCAP • R, BCPC • K • R 283813	M5-8 × 4 pcs	1,018
BMP3030Z	264	264	219	219	BCAP • R, BCPC • K • R 303015, 303018	M5-8 × 4 pcs	826.5
BMP3040Z	265	365	228	325	BCAP • R, BCPC • K • R 304012, 304015, 304018	M5-8 × 4 pcs	1,154
BMP3535Z	315	315	270	270	BCAP • R, BCPC • K • R 353515, 353518	M5-8 × 4 pcs	1,196.5
BMP3545Z	301	401	274	365	BCAP • R, BCPC • K • R 354512, 354516, 354520	M5-8 × 4 pcs	1,443
BMP4050Z	354	454	328	428	BCAP BCPC • K 405016, 405020	M5-8 × 4 pcs	1,998
BMP4060Z	354	551	328	525	BCAP BCPC • K 406018, 406023	M5-8 × 4 pcs	2,328
BMP5060Z	474	574	426	526	BCAP • R, BCPC • K • R 506018, 506025	M5-8 × 6 pcs	3,286
BMP5070Z	472	672	426	626	BCAP • R, BCPC • K • R 507018, 507025	M5-8 × 6 pcs	3,864
BMP6080Z	565	765	526	726	BCAP • R, BCPC • K • R 608018, 608028	—	5,288.5

■ K = BCPC series, R = BCAR • BCPR series.

BMP-W series

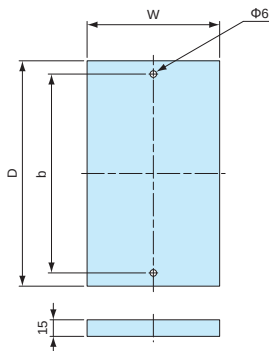
WOODEN MOUNTING PLATE

- Easily customizable hard wooden plate.
- Easy installation with screws provided.
- Plate comes with scales printed on for easy references.

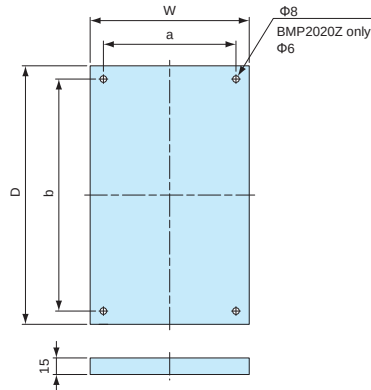


BMP-W dimensions

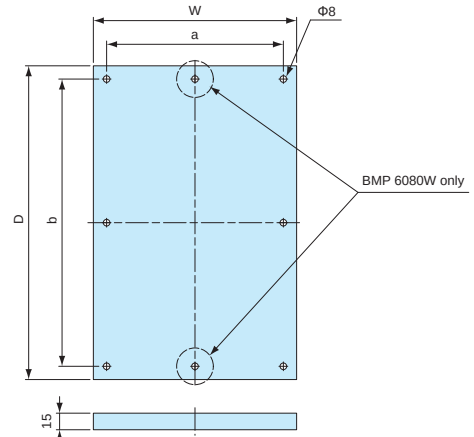
BMP0912W ~ 1727W



BMP1928W ~ 4060W



BMP5060W ~ 6080W



Components

■ DXF/DWG/PDF drawings available on our website.

Part name	Pcs	Material	Finish
Mounting plate	1	Wood board t=15	Scaled sheet
Screw (M5-20 pan washer head)	2 ~ 8	Steel	Trivalent chromate

Product no. / Details

Product no.	W	D	a	b	Suitable models	Screw	Weight (g)
BMP0912W	58	92	-	69	BCAP • R, BCPC • K • R 091207, 091208	M4×20 2 pcs	62
BMP0813W	68	122	-	99	BCAP • R, BCPC • K • R 101507, 101508	M4×20 2 pcs	94
BMP1121W	77	181	-	158	BCAP • R, BCPC • K • R 112107, 112110	M4×20 2 pcs	166
BMP1126W	77	231	-	208	BCAP • R, BCPC • K • R 112607, 112610	M4×20 2 pcs	191
BMP1315W	102	126	-	110	BCAP • R, BCPC • K • R 131508	M4×20 2 pcs	127
BMP1217W	102	156	-	140	BCAP • R, BCPC • K • R 131808, 131810	M4×20 2 pcs	190
BMP1515W	118	125	-	110	BCAP BCPC • K 151509, 151512	M4×20 2 pcs	172
BMP1520W	126	180	-	160	BCAP • R, BCPC • K • R 162110, 162113	M4×20 2 pcs	243
BMP1525W	127	231	-	210	BCAP • R, BCPC • K • R 162610, 162613	M4×20 2 pcs	352
BMP1722W	137	191	-	160	BCAP • R, BCPC • K • R 172210	M4×20 2 pcs	286
BMP1727W	137	241	-	210	BCAP • R, BCPC • K • R 172711	M4×20 2 pcs	212
BMP1928W	150	240	120	210	BCAP • R, BCPC • K • R 192810, 192814	M5×20 4 pcs	350
BMP2020W	170	174	120	150	BCAP • R, BCPC • K • R 212110, 212113	M4×20 4 pcs	336
BMP2030W	159	256	129	226	BCAP • R, BCPC • K • R 203013, 203015, 203018	M5×20 4 pcs	482
BMP2535W	210	300	180	270	BCAP • R, BCPC • K • R 253515, 253518	M5×20 4 pcs	688
BMP2828W	240	240	210	210	BCAP • R, BCPC • K • R 282813	M5×20 4 pcs	565
BMP2838W	240	340	210	310	BCAP • R, BCPC • K • R 283813	M5×20 4 pcs	893
BMP3030W	249	249	219	219	BCAP • R, BCPC • K • R 303015, 303018	M5×20 4 pcs	659
BMP3040W	258	355	228	324	BCAP • R, BCPC • K • R 304012, 304015, 304018	M5×20 4 pcs	965
BMP3535W	300	300	270	270	BCAP • R, BCPC • K • R 353515, 353518	M5×20 4 pcs	964
BMP3545W	301	395	274	365	BCAP • R, BCPC • K • R 354512, 354516, 354520	M5×20 4 pcs	1,314
BMP4050W	355	455	328	428	BCAP BCPC • K 405016, 405020	M5×20 4 pcs	1,754
BMP4060W	355	552	328	525	BCAP BCPC • K 406018, 406023	M5×20 4 pcs	2,015.5
BMP5060W	455	556	426	526	BCAP • R, BCPC • K • R 506018, 506025	M5×20 6 pcs	2,650
BMP5070W	455	656	426	626	BCAP • R, BCPC • K • R 507018, 507025	M5×20 6 pcs	3,152.5
BMP6080W	556	756	526	726	BCAP • R, BCPC • K • R 608018, 608028	M6×20 8 pcs	4,434

■ K = BCPK series, R = BCAR • BCPR series.

BFL series

PLASTIC MOUNTING BRACKET

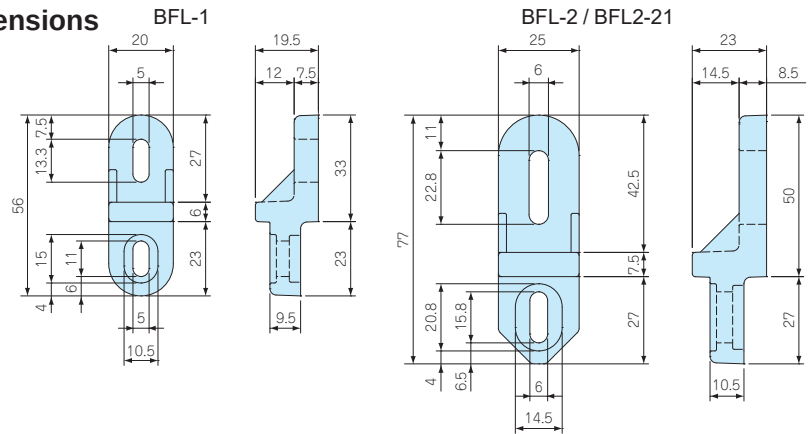


Color G

Color S

- 2 different colored types to match box colors.
- Tough and strong glass fiber filled polycarbonate.

BFL dimensions



Color Type

Code	Color	Suitable models
G	White gray	BCAP • BCAR
S	Light gray	BCPC • BCPK • BCPR

Components

■ DXF/DWG/PDF drawings available on our website.

Part name	Pcs	Material / Finish
Mounting bracket	4	Glass fiber filled polycarbonate • ABS
Screw	4	Stainless steel / Unfinished

Product no. / Details

Product no.	Suitable models	Screw
BFL-1□	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1621, 1626, 1722, 1727, 212113	Self-tapping M4-12 bind head
BFL-2□	BCAP • R, BCPC • K • R 1928, 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060, 5060	M5-12 bind head
BFL-2-21□	BCAP • R, BCPC • K • R 212110	Self-tapping M4-12 bind head

■ Please suffix color code at the end of the product number.

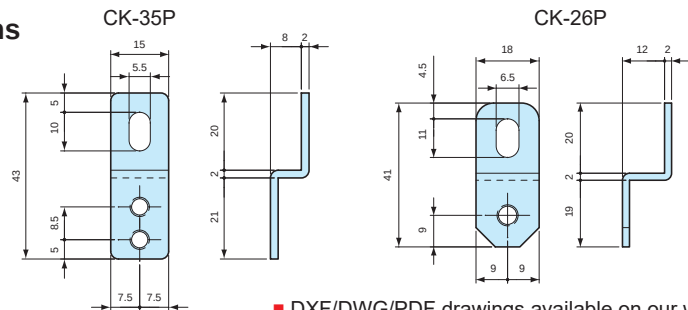
*Not suitable for BCAP1515 models. Use CK-35P (Stainless steel) instead.

CK series

STAINLESS STEEL MOUNTING BRACKET



CK dimensions



Components

■ DXF/DWG/PDF drawings available on our website.

Part name	Pcs	Material	Finish
Mounting bracket	4	Stainless steel SUS304	Barrel finish
Screw	4	Stainless steel	Unfinished

Product no. / Details

Product no.	Suitable models	Screw
CK-35P	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1515, 1621, 1626, 1722, 1727, 2121	Self-tapping M4-10 pan head
CK-26P	BCAP • R, BCPC • K • R 1928, 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060	M5-10 pan head

MT series

PCB MOUNTING SCREW

- PCB mounting screws for inner bosses of BCAP • BCAR • BCPC • BCPK • BCPR series.



Product no. / Details

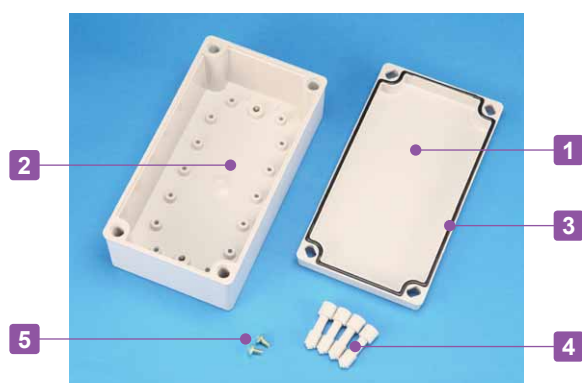
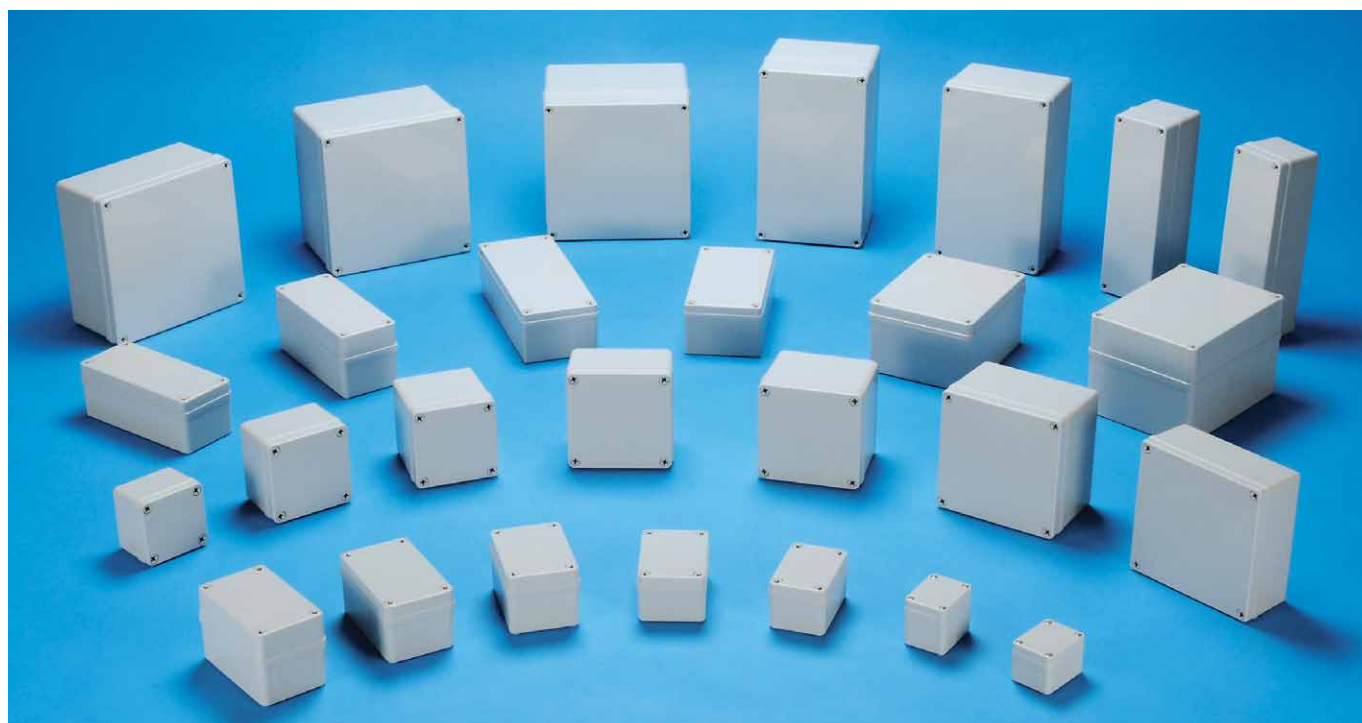
Product no.	Screw details	Material	Finish	Pack of
MT4-8T	Self-tapping M4-8 bind head	Steel	Trivalent chromate	20
MT5-8T	Self-tapping M5-8 bind head	Steel	Trivalent chromate	20

Product no. / Details

Product no.	Suitable models	Recommended torque
MT4-8T	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1515, 1621, 1626, 1722, 1727, 1928, 2121	0.7N • m
MT5-8T	BCAP • R, BCPC • K • R 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060, 5060, 5070, 6080	1.4N • m

BCAS SERIES

IP65 PLASTIC PULL BOX



IP65

Technical Data

Protection class: IP65
 Operating temperature: -10°C ~ +60°C
 Recommended torque:
 1N · m ~ 1.5N · m
 (1N · m for BCAS050604G, BCAS050605G)

- Small-sized frontal screw fastening type waterproof box.
- Available in 39 different sizes.
- Applicable for various uses as wiring pull box, terminal junction box, switch box and so on.

Components

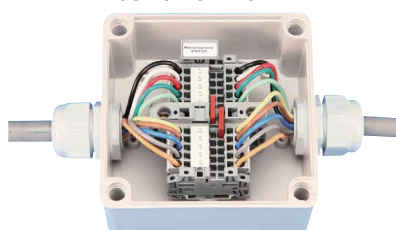
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB	White gray
2	Body	1	ABS UL94HB	White gray
3	Gasket	1	Polyurethane	Black
4	Cover screw	4	Nylon · Stainless steel (BCAS050604G and BCAS050605G only)	White gray · Unfinished
5	Tapping screw (for mounting plate)	2 ~ 4	Steel	Trivalent chromate

APPLICATION EXAMPLE

SWITCH BOX



TERMINAL JUNCTION BOX



AIR PIPE CONTROLLER



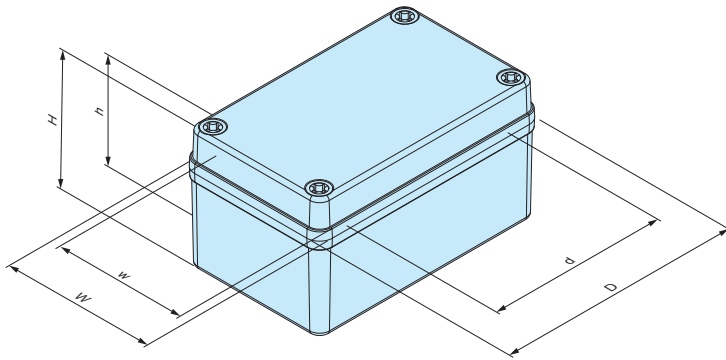
METEOROLOGICAL MONITOR TRANSMITTER



Product by Midori Engineering Laboratory (Japan)

BCAS-1

BCAS dimensions



■ Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.

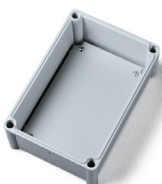
◎ : Guide markings for installation of optional latch/hinge parts.



Product no. / Dimensions

Product no.	Dimensions (External)			Dimensions (Internal)			Weight (g)
	W	D	H	w	d	h	
BCAS050604G	50	65	45	42.5	40	33	69
BCAS050605G	50	65	55	42.5	40	43	76
BCAS060905G	65	95	55	54.5	58	41.5	124
BCAS071005G	75	105	55	65	68	41.3	148
BCAS080806G	80	80	60	69.5	43	46.4	133
BCAS081104G	80	110	45	70	73	31.6	138
BCAS081107G	80	110	70	68.5	73	56.7	165
BCAS081108G	80	110	85	68	74	71.4	191
BCAS081110G	80	110	100	68	74	86.2	227
BCAS081307G	80.5	130	70	69.5	93	56.5	188
BCAS081308G	80	130	85	68.5	93	71.5	222
BCAS081807G	80	180	70	69.5	142.5	57	233
BCAS081808G	80	180	85	69.5	142.5	71.5	275
BCAS082507G	80	250	70	69	212.5	56.5	294
BCAS082508G	80	250	85	69	212.5	71.5	348
BCAS101007G	101.5	101.5	75	89.7	61.3	61.5	212
BCAS101010G	101.5	101.5	100	88.7	60.3	86.5	253
BCAS101807G	100	185	70	88	146.5	56.7	298
BCAS102007G	100	200	70	90.5	163.5	56.5	282
BCAS102307G	100	230	70	90.5	193.5	56.4	336
BCAS121207G	125	125	75	112	86.5	61.5	252
BCAS121210G	125	125	100	113	86.5	86.5	311
BCAS141709G	143	173	95	132	133	81.3	416
BCAS142309G	140	230	95	127	191	81.5	485
BCAS151507G	150	150	75	138.5	112	61.6	322
BCAS151510G	150	150	100	137.5	112	86.6	398
BCAS152004G	150	200	45.5	140.4	162.2	32.5	335
BCAS152007G	150	200	75.5	138.4	162	61.9	423
BCAS152010G	150	200	100.5	138	161.5	86.9	473
BCAS152013G	150	200	130.5	137	160	117.5	582
BCAS152016G	150	200	160	137	160	146.8	631
BCAS152510G	150	250	100	138.5	213	86.1	565
BCAS152513G	150	250	130	138.5	213	116.4	687
BCAS161607G	160	160	70	148	121.5	56.5	334
BCAS202010G	201	201	100	188	163	85.7	604
BCAS202013G	201	201	130	188	161	116.5	685
BCAS202016G	201	201	160	187	162.5	146	801
BCAS202019G	201	201	190	187	162.5	176.3	907.5
BCAS212310G	210	230	100.3	197.8	193.2	87.1	644.5

Accessories (Optional parts)



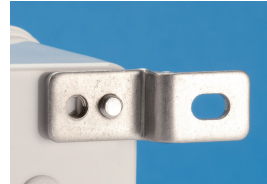
Mounting plate BMP series
See page BCAS-3 ~ BCAS-4



Latch • Hinge BCL55 • BCH55
See page BCAS • BCAL-ACC-1



Spare cover screw CB series
See page BCAS • BCAL-ACC-3



Mounting bracket CK series
See page BCAS • BCAL-ACC-2



Cable gland
See cable gland pages

BCAL SERIES

IP65 PLASTIC BOX



Technical Data

IP65

Protection class: IP65
 Operating temperature: -10°C ~ +60°C
 Recommended torque: 1N • m ~ 1.5N • m



- Large-sized frontal screw fastening type waterproof box.
- 11 different sizes available.
- Applicable for uses in various fields such as FA, control box, network communication, and so on.
- 2 different top cover models (ABS-White gray • Polycarbonate-Transparent) are available.
- Guide markings are available for installation of optional latch/hinge parts.

◎ : Guide markings

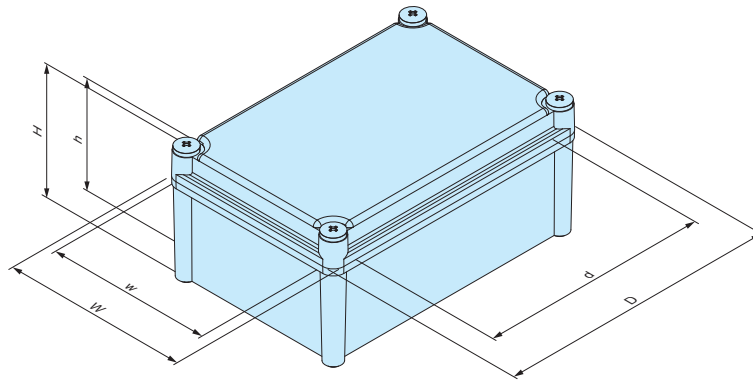


Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB • Polycarbonate (UL94V-0)	White gray • Transparent
2	Body	1	ABS UL94HB	White gray
3	Gasket	1	Polyurethane	Black
4	Cover screw	4 ~ 6	Nylon	White gray • Unfinished
5	Tapping screw (for mounting plate)	4	Steel	Trivalent chromate

BCAL dimensions

■ Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.



Product no. / Dimensions

Product no.				Dimensions (External)			Dimensions (Internal)			Weight (g)
G type		T type		W	D	H	w	d	h	
Top cover	Body	Top cover	Body							
● White gray		○ Transparent	● White gray							
BCAL191913G		BCAL191913T		190	190	128	167	140	111.5	722
BCAL192813G		BCAL192813T		190	280	128	166	229	111.5	896
BCAL192818G		BCAL192818T		190	280	178	164	230	162	1,009
BCAL193813G		BCAL193813T		190	380	128	167	329	111	1,143
BCAL193818G		BCAL193818T		190	380	178	165	327.5	162	1,258
BCAL282813G		BCAL282813T		280	280	128	256	229	112	1,148
BCAL283413G		BCAL283413T		280	340	128	255.5	287	111.8	1,441
BCAL283813G		BCAL283813T		280	380	128	256	329	111.5	1,423
BCAL283818G		BCAL283818T		280	380	178	254	324	161.5	1,745
BCAL285613G		BCAL285613T		280	560	128	255	507	112	2,272
BCAL385618G		BCAL385618T		380	560	178	354	505	159.7	2,948

Accessories (Optional parts)



Mounting plate BMP series
See page BCAL-3



Latch • Hinge BCL65 • BCH65
See page BCAS • BCAL-ACC-1



Spare Cover screw CB28 series
See page BCAS • BCAL-ACC-3



Mounting bracket CK-26P
See page BCAS • BCAL-ACC-2



Cable gland
See cable gland pages

APPLICATION EXAMPLE

CONTROL BOX

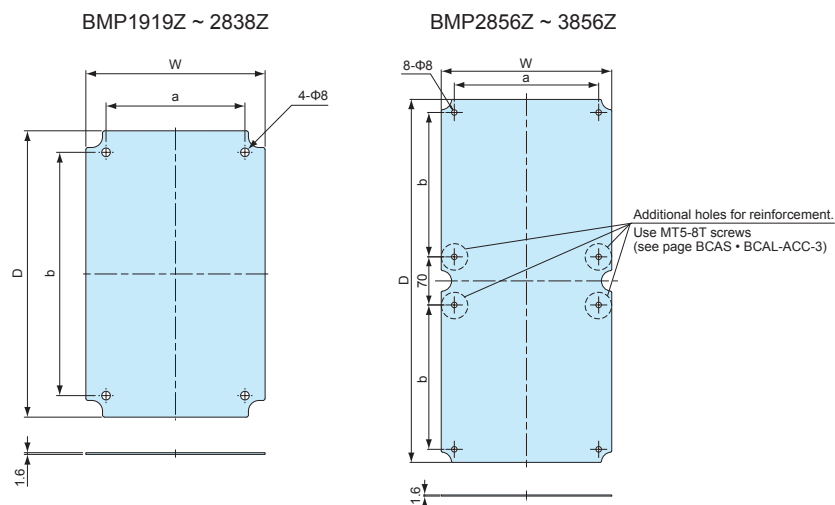


INCLINOMETER for Bridge Construction Product by Akasakatec Inc. (Japan)



BMP-Z SERIES**STEEL MOUNTING PLATE**

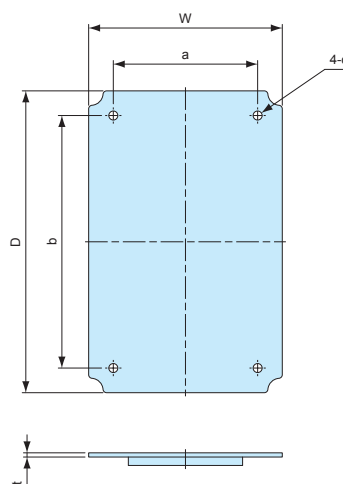
■ DXF/DWG/PDF drawings available on our website.



- Strong but easily customizable.
- Material/Finish : Steel t=1.6mm / Zinc coated

Product no. / Dimensions

Product no.	W	D	a	b	Suitable box	Weight (g)
BMP1919Z	159	159	120	120	BCAL191913	303
BMP1928Z	157	247	120	210	BCAL192813, 192818	462.5
BMP1938Z	159	347	120	310	BCAL193813, 193818	676.5
BMP2828Z	246	246	210	210	BCAL282813	727.5
BMP2834Z	246	306	210	270	BCAL283413	920
BMP2838Z	246	346	210	310	BCAL283813, 283818	1,018
BMP2856Z	248	528	210	210	BCAL285613	1,571
BMP3856Z	348	528	310	210	BCAL385618	2,210

BMP-P SERIES**PLASTIC MOUNTING PLATE**

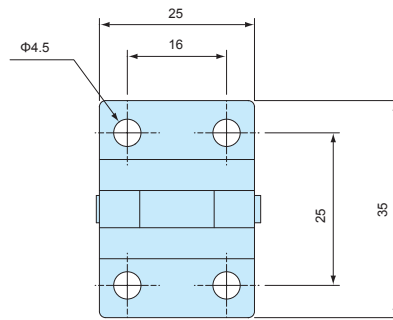
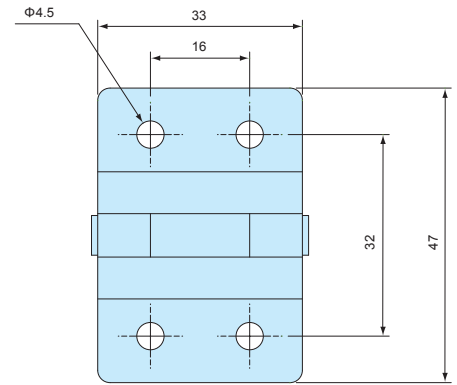
- Not available for BCAL283413, 285613, and 385618 models.
- Material/Color : ABS / White gray

Product no. / Dimensions

Product no.	W	D	a	b	c (Φ)	t	Suitable box	Weight (g)
BMP1919P	159	159	120	120	Φ8	4	BCAL191913	104
BMP1928P	158.5	248	120	210	Φ8	3.5	BCAL192813, 192818	162
BMP1938P	159	348	120	310	Φ8	4.5	BCAL193813, 193818	236
BMP2828P	248.5	248.5	210	210	Φ8	4	BCAL282813	237
BMP2838P	248	347.5	209	309.5	Φ8	4	BCAL283813, 283818	368

BCH SERIES**HINGE** for BCAS • BCAL

■ Refer to ☉ guide markings on BCAS • BCAL box when installing.

**BCH55****BCH65****Components**

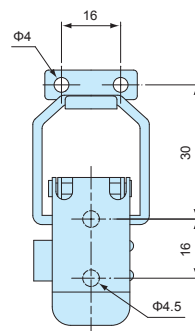
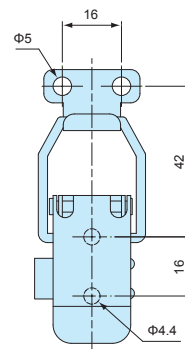
Part name	Pcs	Material	Color / Finish
Hinge	1	Stainless steel SUS304	Unfinished
Bracket	2	Stainless steel SUS304	Unfinished
Gasket	2	EPDM	Black

Product no. / Suitable box

Product no.	Suitable box	Included screw
BCH55	BCAS series Not available for BCAS050604, 050605, 060905, 071005, 080806, 081104, 101807, 102007, 102307, 152004, and 161607 models.	Truss head M4-10
BCH65	BCAL series	Truss head M4-10

BCL SERIES**LATCH** for BCAS • BCAL

■ Refer to ☉ guide markings on BCAS • BCAL box when installing.

**BCL55****BCL65****Components**

Part name	Pcs	Material	Color / Finish
Latch	1	Stainless steel SUS304	Unfinished
Hook	1	Stainless steel SUS304	Unfinished
Bracket	2	Stainless steel SUS304	Unfinished
Gasket	2	EPDM	Black

Product no. / Suitable box

Product no.	Suitable box	Included screw
BCL55	BCAS series Not available for BCAS050604, 050605, 060905, 071005, 080806, 081104, 101807, 102007, 102307, 152004, and 161607 models.	Truss head M4-10
BCL65	BCAL series	Truss head M4-10

BCM SERIES

BLIND PLUG for BCAS • BCAL



- Blind plug for BCAS • BCAL when installing hinges and latches.
Not usable when using cover screws.

Components

Part name	Material	Color
Blind plug	ABS	White gray

Product no. / Suitable box

Product no.	Suitable box	Pack of
BCM-1	BCAS series (Not available for BCAS050604, 050605 models)	1
BCM-2	BCAL series	1

CK SERIES

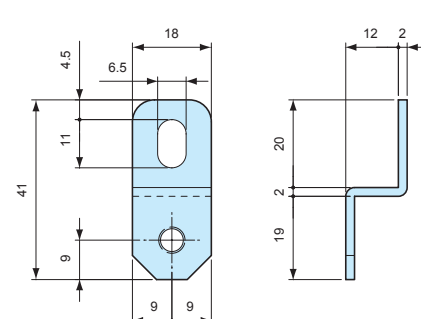
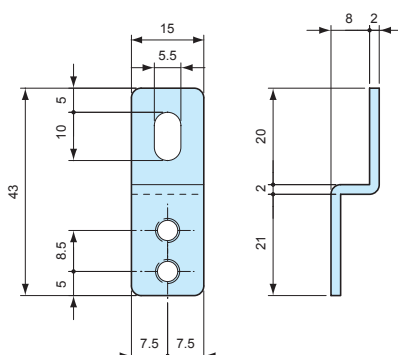
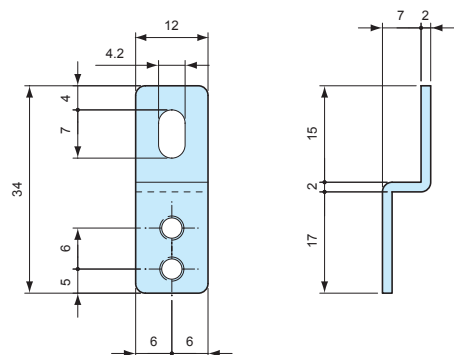
STAINLESS STEEL MOUNT BRACKET



CK-34Z dimensions

CK-35P dimensions

CK-26P dimensions



- CK-34Z model requires the use of MT4-10 screw.

Product no. / Suitable box

Product no.	Material	Finish	Suitable box	Included screw	Pack of
CK-34Z	Stainless steel SUS304	Barrel finish	BCAS series (Not applicable for BCAS050604, 050605 models)	—	4
CK-35P	Stainless steel SUS304	Barrel finish	BCAS050604G, BCAS050605G	Pan head tapping M4-10	4
CK-26P	Stainless steel SUS304	Barrel finish	BCAL series	Pan head M5-10	4

MT4-10

MOUNTING SCREW

- Use together with CK-34Z.

Product no. / Feature

Product no.	Material	Finish	Pack of
MT4-10 (Pan head M4-10)	Stainless steel	Unfinished	4

MT SERIES**PCB MOUNTING SCREW**

■ Mounting screw for the bosses without insert-nut.

Product no. / Feature

Product no.	Material	Finish	Pack of
MT4-8T (Binding head tapping M4-8)	Steel	Trivalent chromate	20
MT5-8T (Binding head tapping M5-8)	Steel	Trivalent chromate	20

Suitable box chart

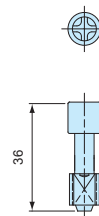
Product no.	Suitable box	Tightening torque
MT4-8T	BCAS071005, 081104, 081107, 081108, 081110, 081307, 081308, 081807, 081808, 082507, 082508, 101007, 101010, 101807, 102007, 102307, 121207, 121210, 141709, 142309, 151507, 151510, 152004, 152007, 152010, 152013, 152016, 152510, 152513, 161607, 202010, 202013, 202016, 202019, and 212310 models.	0.7N • m
MT5-8T	BCAL series	1.4N • m

CB SERIES**SPARE COVER SCREW for BCAS**

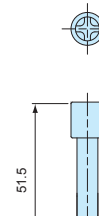
CB20

CB35

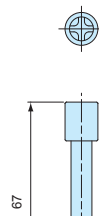
CB50



36



51.5



67

CB20

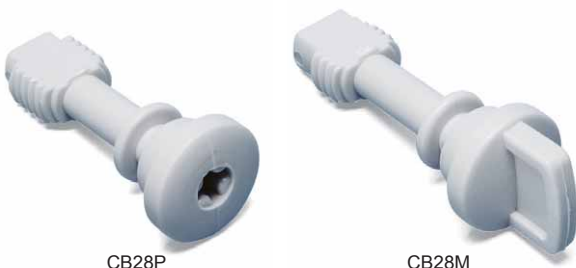
CB35

CB50

Product no. / Feature / Suitable box

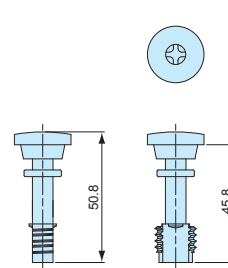
Product no.	Material	Color	Pack of
CB20	Fiberglass • Nylon	White gray	1
CB35	Fiberglass • Nylon	White gray	1
CB50	Fiberglass • Nylon	White gray	1

Product no.	Suitable box
CB20	BCAS060905, 071005, 080806, 081104, 081107, 081108, 081307, 081807, 082507, 101007, 101010, 101807, 102007, 102307, 121207, 121210, 141709, 142309, 151507, 151510, 152004, 152007, 152010, 152013, 152510, 161607, 202010, 202013, 202016, and 212310 models TMB-15PS, 20P, 20PL
CB35	BCAS081110, 081308, 081808, and 082508 models
CB50	BCAS152016, 152513, and 202019 models

CB SERIES**SPARE COVER SCREW for BCAL**

CB28P

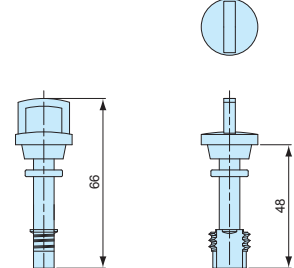
CB28M



50.8

45.8

CB28P



66

48

CB28M

Product no. / Feature / Suitable box

Product no.	Material	Color	Suitable box	Pack of
CB28P	Fiberglass • Nylon	White gray	BCAL series	1
CB28M	Fiberglass • Nylon	White gray	BCAL series	1

SSK SERIES

POLE MOUNTING BRACKET

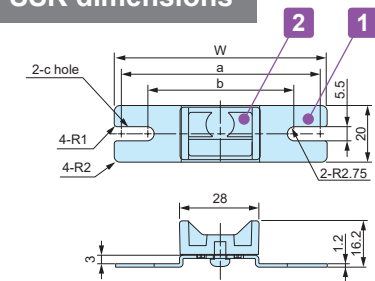


- Stainless steel pole mounting bracket for SPCM • SPCP and BCAL • BCAS series.
- Easy pole mount with the use of SSK-B mounting screw and PKB mounting belt.
- DXF/DWG/PDF drawings available on our website.
- SSK-P models includes plastic mounting brackets.

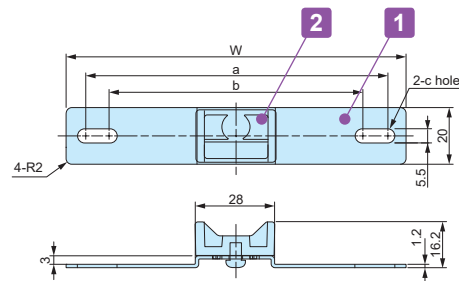


PKB series

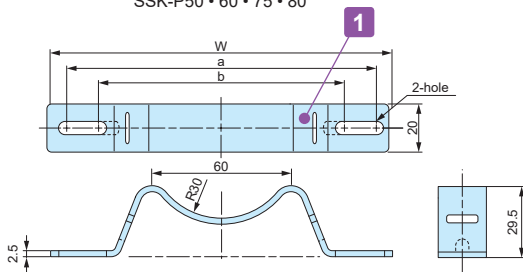
SSK dimensions



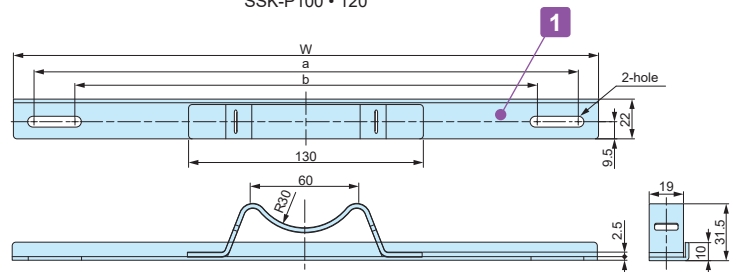
SSK-P50 • 60 • 75 • 80



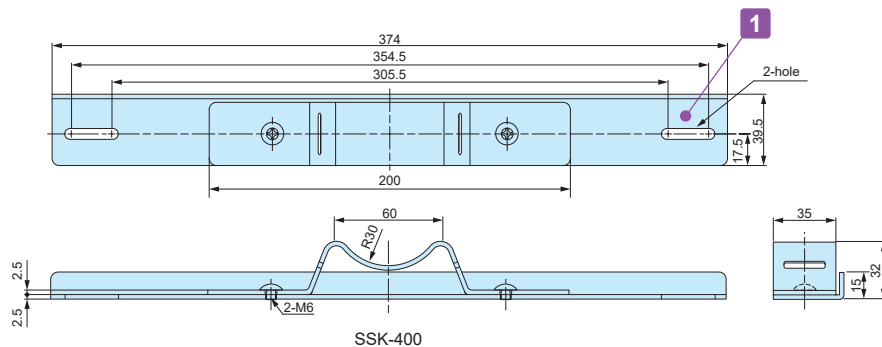
SSK-P100 • 120



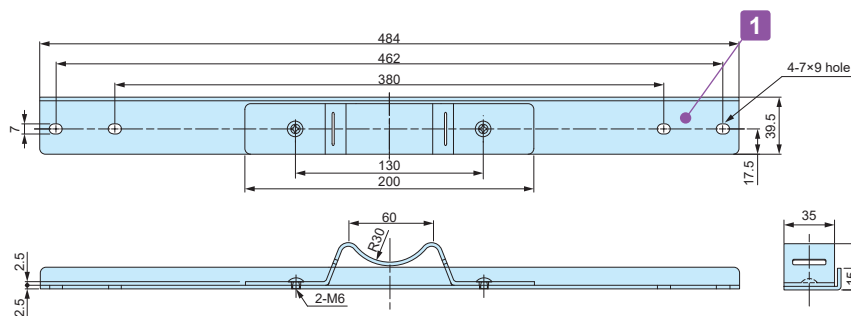
SSK-160 ~ 250



SSK-280 ~ 350



SSK-400



SSK-530

SSK-1

Components

No.	Part name	Pcs	Material	Color / Finish
1	Bracket	2	Stainless steel SUS304	Barrel finish
2	Plastic bracket (SSK-P models only)	2	ASA UL94HB	White gray

■ Screws included with SSK brackets are for BCAP • BCAR • BCPK • BCPR series use only. For other series, please utilize SSK-B screw set.

Product no. / Dimensions

Product no.	W	a	b	c	Suitable mounting belt	Pack of
SSK-P50	50	44.5	37.5	5.5× 9	PKB-10PM, 10P PKB-10S	2
SSK-P60	60	54.5	47.5	5.5× 9	PKB-10PM, 10P PKB-10S	2
SSK-P75	75	69.5	55.5	5.5×12.5	PKB-10PM, 10P PKB-10S	2
SSK-P80	80	74.5	64.5	5.5×10.5	PKB-10PM, 10P PKB-10S	2
SSK-P100	100	88.1	76.5	5.5×11.3	PKB-10PM, 10P PKB-10S	2
SSK-P120	120	106.5	88.5	5.5×14.5	PKB-10PM, 10P PKB-10S	2
SSK-160	142	129.5	106.5	—	PKB-10PM, 10P PKB-10S	2
SSK-170	152	142.3	101	—	PKB-10PM, 10P PKB-10S	2
SSK-200	174	161.5	112.5	—	PKB-10PM, 10P PKB-10S	2
SSK-210	192	180.5	131.5	—	PKB-10PM, 10P PKB-10S	2
SSK-250	230	215.5	166.5	—	PKB-10PM, 10P PKB-10S	2
SSK-280	260	244.5	195.5	—	PKB-10PM, 10P PKB-10S	2
SSK-300	280	264.5	215.5	—	PKB-10PM, 10P PKB-10S	2
SSK-350	324	302.5	253.5	—	PKB-10PM, 10P PKB-10S	2
SSK-400	374	354.5	305.5	—	PKB-20S	2
SSK-530	484	462	380	7×9	PKB-20S	2

SSK-B SERIES

MOUNTING SCREW SET for SSK



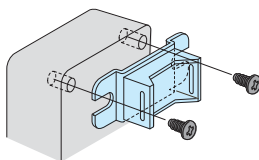
- Mounting screw set for use with SSK pole mounting bracket.
- See chart on page SSK-3 for appropriate bracket/screw/box combination.
- Material / Finish : Stainless steel / Unfinished.

Product no. / Dimensions

Product no.	Included screws	Suitable box	Pcs
SSK-B4-15N	M4-15 Pan head with nut	BCAS060905 ~ 212310	4
SSK-B4-25N	M4-25 Pan head with nut	SPCP • SPCM series	4
SSK-B5-10	M5-10 Pan head	BCAL series	4

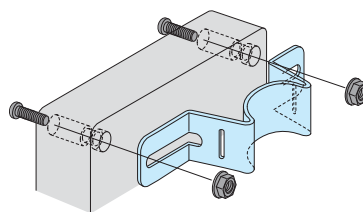
■ Installation Example

BCAS050604, 050605



Use screws included with SSK-P

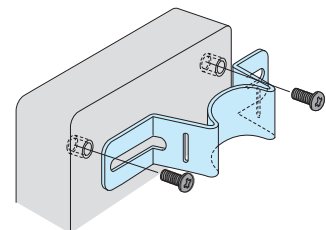
M4 / M5 Pan head with nut fastening



SSK-B4-15N

SSK-B4-25N

Pan head screw into insert nut



SSK-B5-10

POLE MOUNTING BRACKET / SCREW SET MATCHING CHART

SPCM • SPCP series

Box Product no.		SSK Product no.		Screw set Product no.
		Vertical mount	Horizontal mount	
SPCP SPCM	081304, 081305 081306, 081308 081310, 081313	SSK-P75	SSK-160	SSK-B4-25N
	101004, 101006	SSK-P100	SSK-P100	SSK-B4-25N
	131304, 131305 131306, 131308 131310, 131313	SSK-160	SSK-160	SSK-B4-25N
	131804, 131805 131806, 131808 131810, 131813, 131815	SSK-160	SSK-200	SSK-B4-25N
	181808, 181810 181813, 181815	SSK-200	SSK-200	SSK-B4-25N
	182508, 182510, 182515	SSK-200	SSK-280	SSK-B4-25N

BCAL series

Box Product no.		SSK Product no.		Screw set Product no.
		Vertical mount	Horizontal mount	
BCAL	191913 ※	SSK-P120	SSK-200	SSK-B5-10
	192813, 192818	SSK-200	SSK-250	SSK-B5-10
	193813, 193818	SSK-200	SSK-350	SSK-B5-10
	282813	SSK-250	SSK-280	SSK-B5-10
	283413	SSK-280	SSK-280	SSK-B5-10
	283813, 283818	SSK-280	SSK-350	SSK-B5-10
	285613	SSK-280	SSK-530	SSK-B5-10
	385618	SSK-400	SSK-530	SSK-B5-10

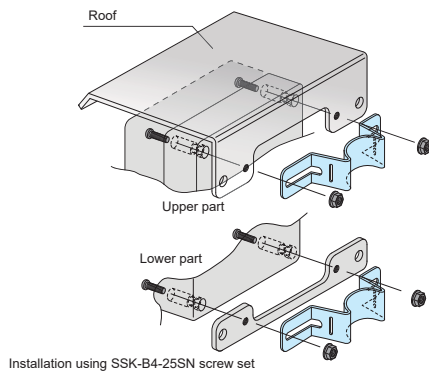
※Use screws included with SSK bracket for vertical mount

BCAS series

Box Product no.		SSK Product no.		Screw set Product no.
		Vertical mount	Horizontal mount	
BCAS	050604, 050605	SSK-P50	SSK-P60	Use screws included with SSK bracket
	060905	SSK-P60	SSK-P100	SSK-B4-15N
	071005 ※	SSK-P75	SSK-P100	SSK-B4-15N
	080806	SSK-P75	SSK-P75	SSK-B4-15N
	081104, 081107 081108, 081110	SSK-P75	SSK-P120	SSK-B4-15N
	081307, 081308	SSK-P75	SSK-160	SSK-B4-15N
	081807, 081808	SSK-P75	SSK-210	SSK-B4-15N
	082507, 082508	SSK-P75	SSK-280	SSK-B4-15N
	101007, 101010	SSK-P100	SSK-P100	SSK-B4-15N
	101807	SSK-P100	SSK-210	SSK-B4-15N
	102007	SSK-P100	SSK-250	SSK-B4-15N
	102307	SSK-P100	SSK-250	SSK-B4-15N
	121207, 121210	SSK-P120	SSK-200	SSK-B4-15N
	141709	SSK-160	SSK-200	SSK-B4-15N
	142309	SSK-160	SSK-250	SSK-B4-15N
	151507, 151510	SSK-170	SSK-170	SSK-B4-15N
	152004, 152007 152020, 152013, 152016	SSK-170	SSK-250	SSK-B4-15N
	152510, 152513	SSK-170	SSK-280	SSK-B4-15N
	161607	SSK-170	SSK-170	SSK-B4-15N
	202010, 202013 202016, 202019	SSK-250	SSK-250	SSK-B4-15N
	212310	SSK-250	SSK-250	SSK-B4-15N

※Use screws included with SSK bracket for vertical mount

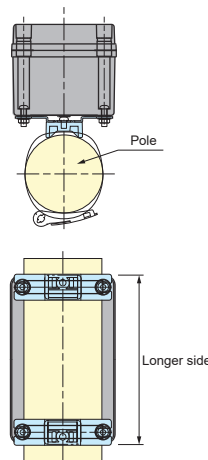
- For installation of SR series outdoor roof on SPCM • SPCP series
SR series (For SPCM • SPCP - see page SPCP • SPCM-ACC-2)



- Select SSK bracket depending on mounting type (Vertical or Horizontal).

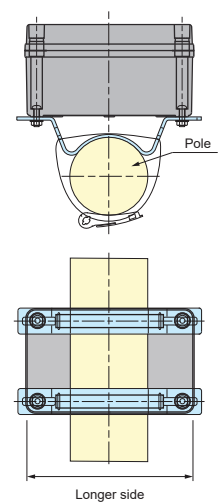
Vertical mount

(Longer vertical side)



Horizontal mount

(Longer horizontal side)



WPMB-M4-3 SERIES

POLE MOUNTING BRACKET



- Pole mount bracket made from weather resistant ASA material.
- Suitable for both for vertical and horizontal mounting.
- Hole milling is required for bracket installation.
- IPX7 protection can be maintained through the use of sealing washers.
- Pole mount is possible with the use of PKB series mounting belt.

Components

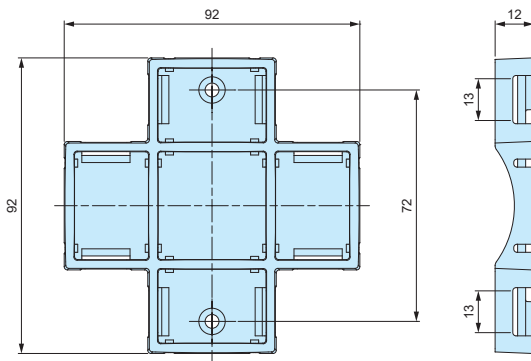
No.	Part name	Pcs	Material	Color / Finish
1	Bracket	1	ASA UL94HB	White gray • Dark gray
2	Sealing washer	2	NBR, SPCC	Black
3	Screw (M4-10 Pan head)	2	Stainless steel	Unfinished
4	Hexagonal nut (M4 x 3 types)	2	Stainless steel	Unfinished

Product no. / Dimensions

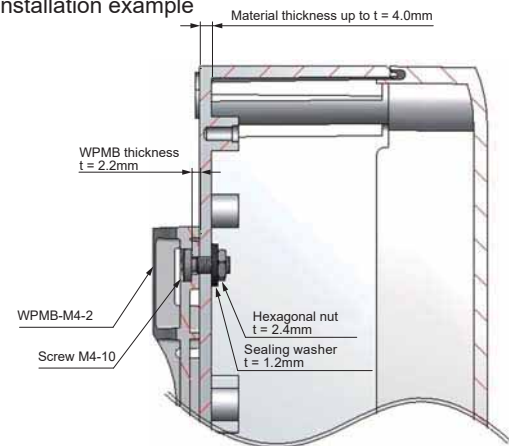
Product no.		Material thickness	Tightening torque	Tensile strength	Weight (g)
• White gray	• Dark gray				
WPMB-M4-3G	WPMB-M4-3D	Up to t = 4.0mm	0.45N • m	5 kg	26.5

■ Listed tightening torque values are for reference only. Actual required torque may differ.

■ DXF/DWG/PDF drawings available on our website.



Installation example



PKB SERIES

POLE MOUNTING BELT

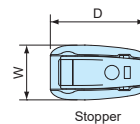


PKB-10PM, 10P

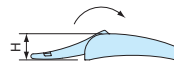
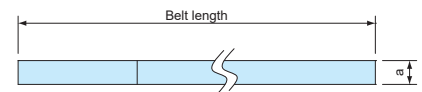


PKB-10S, 20S

- New shorter belt type PKB-10PM is available for $\Phi 25$ to $\Phi 60$ mm poles. Other belt types are for $\Phi 60$ to $\Phi 400$ mm poles.
- Designed for one time use only (not reusable).
- Strong stainless steel clamping type and easy installation plastic type are available.
- Use SSK • WPMB mounting bracket for installation onto a pole.



Stopper



■ Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.

Components

Part name	Pcs	Material	Color / Finish
Stopper	2	POM • Stainless steel SUS304	Black • Barrel finish
Belt	2	PET • Stainless steel SUS430	Gray • Bright Annealed finish

Product no. / Dimensions

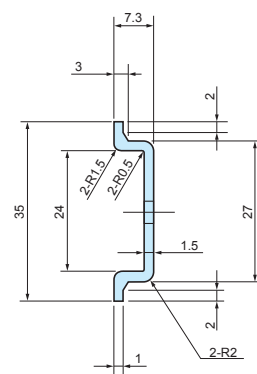
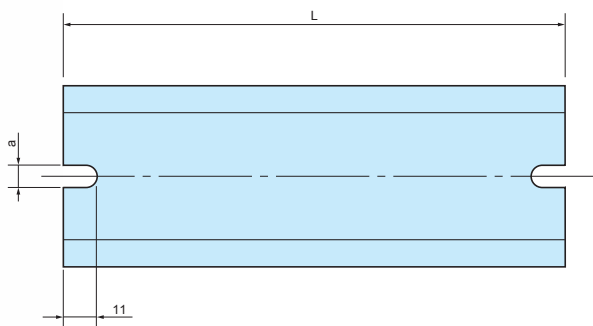
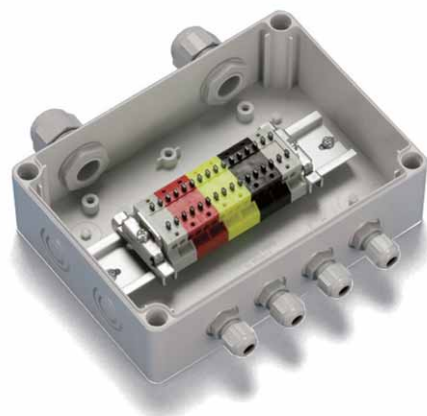
Product no.	W	D	H	a	b	Belt material	Belt length	Tensile strength (horizontal)	Weight (g)	Pack of
NEW PKB-10PM	24	23	11	10	0.5	PET	500mm	0.8 kN	14	2
PKB-10P	23	40	11	10	0.5	PET	1,500mm	1.3 kN	31.8	2
PKB-10S	(16.5)	(49.5)	12	10	0.3	Stainless steel	1,500mm	1.4 kN	101.6	2
PKB-20S	(27.4)	(49.5)	12	20	0.3	Stainless steel	1,500mm	2.9 kN	182.2	2

FDR SERIES

DIN-RAIL



- DIN rail for installation of terminals, relays or switches inside enclosures.
- Available in different models and lengths to fit a wide variety of mounting boss pitch.
- FDR-1000 is available if customized length is required.



Feature

Material	Finish
Extruded Aluminium A6063S-T5	Silver anodized

Product no. / Dimensions

Product no.	L	a	Matching boss pitch
FDR- 50	50	4.2	32 ~ 42
57	57	4.2	39 ~ 49
66	66	4.2	48 ~ 58
77	77	4.2	59 ~ 69
80	80	4.2	62 ~ 72
87	87	4.2	69 ~ 79
92	92	4.2	74 ~ 84
100	100	4.2	82 ~ 92
106	106	4.2	88 ~ 98
110	110	4.2	92 ~ 102
120	120	4.2	102 ~ 112
128	128	4.2	110 ~ 120
137	137	4.2	119 ~ 129
142	142	4.2	124 ~ 134
146	146	4.2	128 ~ 138
150	150	4.2	132 ~ 142
168	168	4.2	150 ~ 160
170	170	4.2	152 ~ 162
186	186	4.2	168 ~ 178
202	202	4.2	184 ~ 194
205	205	4.2	187 ~ 197
223	223	4.2	205 ~ 215
226	226	4.2	208 ~ 218
235	235	4.2	217 ~ 227
242	242	4.2	224 ~ 234
249	249	4.2	231 ~ 241
283	283	4.2	265 ~ 275
300	300	4.2	282 ~ 292
350	350	4.2	332 ~ 342
450	450	4.2	432 ~ 442
550	550	4.2	532 ~ 542

Product no.	L	a	Matching boss pitch
FDR-B102	102	6.5	86 ~ 92
NEW B124	124	6.5	108 ~ 114
B142	142	6.5	126 ~ 132
B160	160	6.5	144 ~ 150
B165	165	6.5	149 ~ 155
B176	176	6.5	160 ~ 166
B183	183	6.5	167 ~ 173
B223	223	6.5	207 ~ 213
B260	260	6.5	244 ~ 250
B283	283	6.5	267 ~ 273
B303	303	6.5	287 ~ 293
B338	338	6.5	322 ~ 328
B360	360	6.5	344 ~ 350
B376	376	6.5	360 ~ 366
B383	383	6.5	367 ~ 373
B463	463	6.5	447 ~ 453
B560	560	6.5	544 ~ 550
B623	623	6.5	607 ~ 613
FDR-1000	1000	—	—

■ FDR-1000 does not have mounting holes.

Matching DIN-Rail Chart

BC□□ series

Product no.	Matching DIN-Rail
091207	FDR - 80
091208	80
101507	110
101508	110
112107	170
112110	170
112607	223
112610	223
131508	120
131808	150
131810	150
151509	120
151512	120
162110	170
162113	170
162610	223
162613	223
172211	170
172711	223

BDN series

Product no.	Matching DIN-Rail
6- 8- 5	FDR - 50
7-10- 4	—
9- 9- 6	FDR - 80
9-13- 5	120
10-14- 7	128
11-16- 6	150
12-22- 8	205
16-26- 9	242

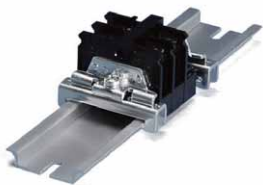
BCAS series

Product no.	Matching DIN-Rail
071005	FDR - 92
080806	66
081104	92
081107	92
081108	92
081110	92
081307	110
081308	110
081807	168
081808	168
082507	235
082508	235
101007	77
101010	77
101807	150
102007	170
102307	202
121207	80
121210	80
141709	146
142309	205
151507	120
151510	120
152004	170
152007	170
152010	170
152013	170
152016	170
152510	226
152513	226
161607	137

SPCM • SPCP series

Product no.	Matching DIN-Rail
081304	FDR - 50/100
081305	50/100
081306	50/100
081308	50/100
081310	50/100
081313	50/100
101004	80
101006	80
131304	100
131305	100
131306	100
131308	100
131310	100
131313	100
131804	100/150
131805	100/150
131806	100/150
131808	100/150
131810	100/150
131813	100/150
131815	100/150
181808	150
181810	150
181813	150
181815	150
182508	150/223
182510	150/223
182515	150/223

Accessories (Optional parts)



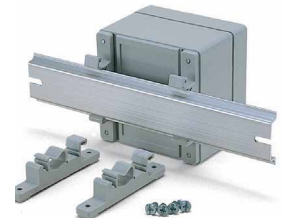
DIN-Rail stopper bracket TKR series
See page DIN-ACC-2



DIN-Rail mounting base DRA series
See page DIN-ACC-1



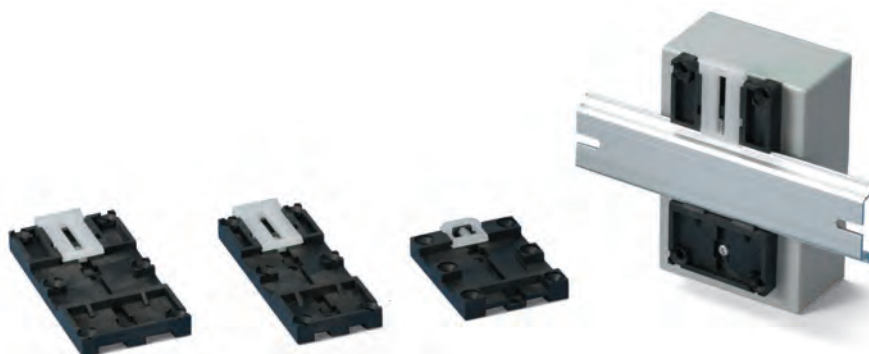
DIN-Rail mounting base DRT series
See page DIN-ACC-1



DIN-Rail mounting feet CKD series
See page DIN-ACC-2

DRA series

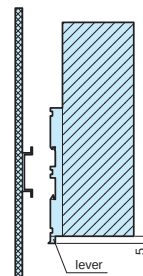
DIN-RAIL MOUNTING BASE



- For installation of enclosures, PCB and other parts onto a DIN rail.
- Simple installation and removal via the pull lever.

■ NOTE

Before installation, please ensure that the lever is not fully hidden behind the enclosure

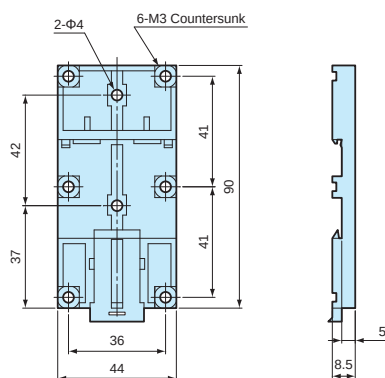


Technical Data

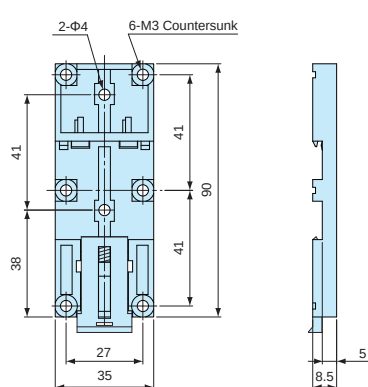
Max load : 5kg

DRA dimensions

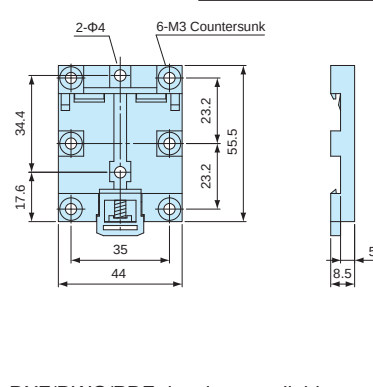
DRA-1



DRA-2



DRA-3



- DXF/DWG/PDF drawings available on our website.

Product no. / Dimensions

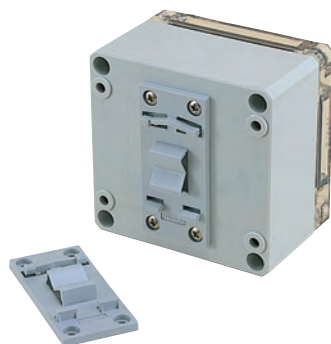
Product no.	Material (body)	Material (lever)	Color	Weight (g)
DRA-1	PPE : SB UL94V-1	Nylon 66 UL94V-2	Black : White	16.4
DRA-2	PPE : SB UL94V-1	Nylon 66 UL94V-2	Black : White	14.5
DRA-3	PPE : SB UL94V-1	Nylon 66 UL94V-2	Black : White	10.4

DRT series

DIN-RAIL MOUNTING BASE

DRT dimensions

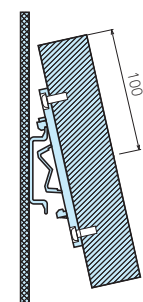
- DXF/DWG/PDF drawings available on our website.



- For installation of enclosures, PCB and other parts onto a DIN rail.
- Simple installation and removal by tilting the case at an angle and sliding it in/out.

■ NOTE

Before installation, please ensure that the length (from top) of the enclosure is equal to, or less than 100mm from the center of the mounting base.



Technical Data

Max load : 1kg
Operating temperature: -20°C ~ +70°C

Product no. / Dimensions

Product no.	Material	Color	Weight (g)
DRT-1	PC/ABS UL94V-0	Light gray	7.3

DIN-RAIL MOUNTING FEET



IP67



- Weatherproof cable gland equipped with high ultraviolet and degradation resistant silicone sealing insert and O-ring.
- Recommended to use outdoors where waterproofing is critical.
- Protection class equivalent to IP67.

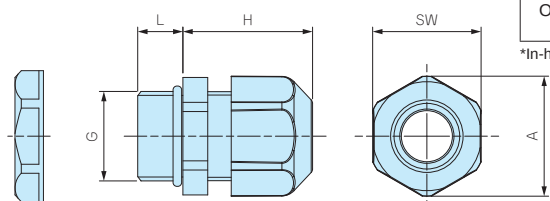
Components

■ PA = Polyamide

No.	Part name	Material
1	Cap	PA66 UL94V-2
2	Sealing insert	Silicone
3	Connector	PA66 UL94V-2
4	O-ring	Silicone
5	Lock nut	PA66 UL94V-2

RMW dimensions

- DXF/DWG/PDF drawings available on our website.



Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

Cap design varies by size



RMW40 or smaller



RMW50

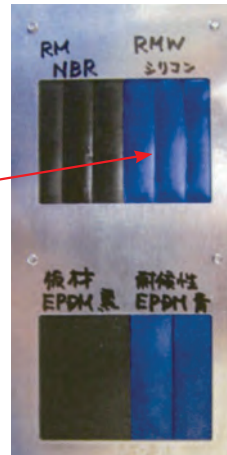
- Lock nut is not included for RMW10S-6.
- Please drill a proper thread hole into the enclosure for installation.

Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RMW8L-2.5B	RMW8L-2.5S	M8×1.25	Φ8.2	1	2.5	13	19.5	12	13.6	1
RMW8L-4B	RMW8L-4S	M8×1.25	Φ8.2	2.5	4	13	19.5	12	13.6	1
RMW10S-6B	RMW10S-6S	M10×1.5	—	3	6	8	20.5	13	14.6	1
RMW10L-6B	RMW10L-6S	M10×1.5	Φ10.2	3	6	13	20.5	13	14.6	1
RMW12S-7B	RMW12S-7S	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.7	1
RMW12L-7B	RMW12L-7S	M12×1.5	Φ12.2	3.5	7	14.5	20.5	16	17.7	1
RMW16S-8B	RMW16S-8S	M16×1.5	Φ16.2	4	8	9	23.5	19.2	21.3	1
RMW16L-8B	RMW16L-8S	M16×1.5	Φ16.2	4	8	15	24	19.2	21.3	1
RMW20S-12B	RMW20S-12S	M20×1.5	Φ20.2	6	12	10	29	24.3	26.8	1
RMW20L-12B	RMW20L-12S	M20×1.5	Φ20.2	6	12	15	28.5	24.3	26.8	1
RMW25L-17B	RMW25L-17S	M25×1.5	Φ25.2	11	17	15	35	33.3	36.8	1
RMW32L-21B	RMW32L-21S	M32×1.5	Φ32.3	13	21	15	38	36.1	39.8	1
RMW40L-27B	RMW40L-27S	M40×1.5	Φ40.3	18	27	18	43.5	46.1	51.2	1
RMW50L-38B	RMW50L-38S	M50×1.5	Φ50.4	27	38	20	50.5	60	66.5	1
RMW10L-6B-P	RMW10L-6S-P	M10×1.5	Φ10.2	3	6	13	20.5	13	14.6	100
RMW12S-7B-P	RMW12S-7S-P	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.7	100
RMW12L-7B-P	RMW12L-7S-P	M12×1.5	Φ12.2	3.5	7	14.5	20.5	16	17.7	100
RMW16S-8B-P	RMW16S-8S-P	M16×1.5	Φ16.2	4	8	9	23.5	19.2	21.3	100
RMW16L-8B-P	RMW16L-8S-P	M16×1.5	Φ16.2	4	8	15	24	19.2	21.3	100
RMW20S-12B-P	RMW20S-12S-P	M20×1.5	Φ20.2	6	12	10	29	24.3	26.8	100
RMW20L-12B-P	RMW20L-12S-P	M20×1.5	Φ20.2	6	12	15	28.5	24.3	26.8	100

RMW series silicone sealing insert weatherproof test report

Object: Cut into a piece of the silicone sealing insert from RMW series and attach it onto an aluminium plate.
For comparison, NBR sealing insert from our RM and EPDM sealing insert from another manufacturer is also attached.



Before



After

Testing conditions

Equipment : 7.5kW Super Xenon Weather Meter SX75 (Suga Test Instruments Co., Ltd.- <http://www.sugatest.co.jp/english/>)
Conditions : JIS B7754 : 1991

Testing with an authorized Xenon arc lamp weathering test equipment under the conditions denoted below.

Irradiance : 180W/m^2 at 300-400nm

Black Panel Temperature : $63\pm 3^\circ\text{C}$ Humidity Range : $50\pm 10\%$

Cycle Conditions : 120 minutes cycle (18 minutes irradiation + water spray - 102 minutes irradiation)

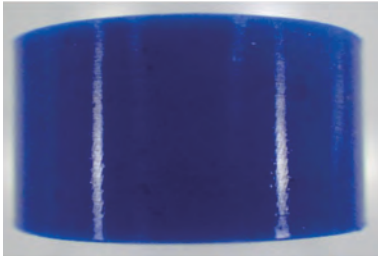
Time period : 2,000 hours (equivalent to a period of 4 years under natural conditions)

Total radiant exposure : 1296MJ/m^2

Test result (visual / touch inspection)

Silicone sealing insert material : No cracks, no gloss transition, no powder - no appearance change at all. Flexibility remains unchanged.

Before



After



NBR material from our RM series : Lost glossiness on the surface and material is stiffened.

Before

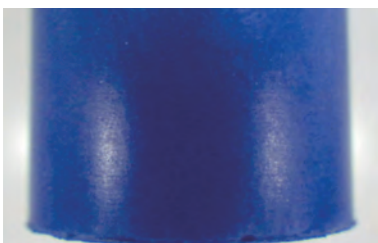


After

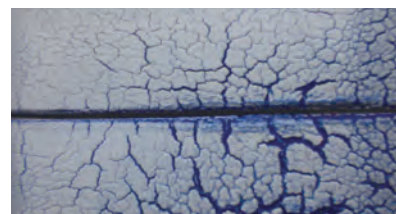


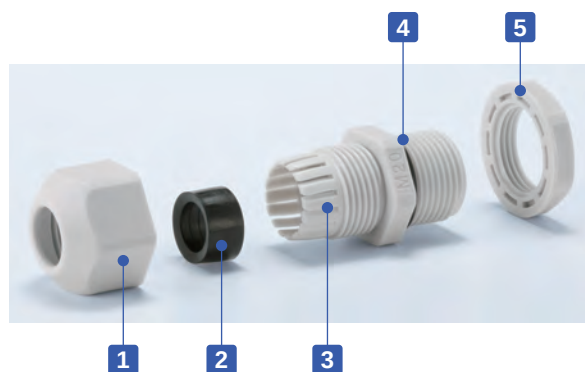
EPDM material from weatherproof cable gland of another manufacturer : Cracked, color drastically faded and powder appeared on the surface.

Before



After





- Low cost cable glands made from polyamide material.
- Wide selection, for M8 ~ M63, suitable for $\Phi 1\text{mm} \sim \Phi 44\text{ mm}$ cable.
- High oil resistant NBR rubber sealing and O-ring.
- Protection class equivalent to IP67.

Technical Data

Protection class : Equivalent to IP67*
Operating temperature : $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

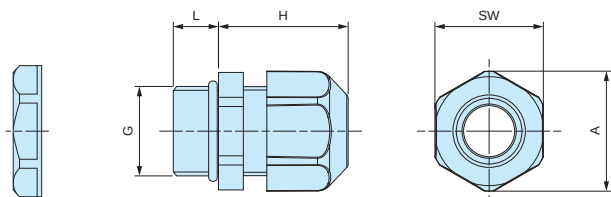
*In-house test

Components

■ PA = Polyamide

No.	Part name	Material
1	Cap	PA66 UL94V-2
2	Sealing insert	NBR
3	Connector	PA66 UL94V-2
4	O-ring	NBR
5	Lock nut	PA66 UL94V-2

RM dimensions ■ DXF/DWG/PDF drawings available on our website.



- Lock nut is not included for RM8S-2.5, 8S-4, and 10S-6 models.

Please drill an appropriate thread hole into the enclosure for installation.

Cap design varies by size



Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RM8S-2.5B	RM8S-2.5S	M8×1.25	—	1	2.5	7.5	19.5	12	13.6	1
RM8L-2.5B	RM8L-2.5S	M8×1.25	$\Phi 8.2$	1	2.5	13	19.5	12	13.6	1
RM8S-4B	RM8S-4S	M8×1.25	—	2.5	4	7.5	19.5	12	13.6	1
RM8L-4B	RM8L-4S	M8×1.25	$\Phi 8.2$	2.5	4	13	19.5	12	13.6	1
RM10S-6B	RM10S-6S	M10×1.5	—	3	6	8	20.5	13	14.6	1
RM10L-6B	RM10L-6S	M10×1.5	$\Phi 10.2$	3	6	13	20.5	13	14.6	1
RM12S-7B	RM12S-7S	M12×1.5	$\Phi 12.2$	3.5	7	9	20.5	16	17.7	1
RM12L-7B	RM12L-7S	M12×1.5	$\Phi 12.2$	3.5	7	14.5	20.5	16	17.7	1
RM16S-8B	RM16S-8S	M16×1.5	$\Phi 16.2$	4	8	9	23.5	19.2	21.3	1
RM16L-8B	RM16L-8S	M16×1.5	$\Phi 16.2$	4	8	15	24	19.2	21.3	1
RM20S-12B	RM20S-12S	M20×1.5	$\Phi 20.2$	6	12	10	29	24.3	26.8	1
RM20L-12B	RM20L-12S	M20×1.5	$\Phi 20.2$	6	12	15	28.5	24.3	26.8	1
RM25L-17B	RM25L-17S	M25×1.5	$\Phi 25.2$	11	17	15	35	33.3	36.8	1
RM32L-21B	RM32L-21S	M32×1.5	$\Phi 32.3$	13	21	15	38	36.1	39.8	1
RM40L-27B	RM40L-27S	M40×1.5	$\Phi 40.3$	18	27	18	43.5	46.1	51.2	1
RM50L-38B	RM50L-38S	M50×1.5	$\Phi 50.4$	27	38	20	50.5	60	66.5	1
RM63L-44B	RM63L-44S	M63×1.5	$\Phi 63.4$	37	44	20	53	68	75.5	1
RM10L-6B-P	RM10L-6S-P	M10×1.5	$\Phi 10.2$	3	6	13	20.5	13	14.6	100
RM12S-7B-P	RM12S-7S-P	M12×1.5	$\Phi 12.2$	3.5	7	9	20.5	16	17.7	100
RM12L-7B-P	RM12L-7S-P	M12×1.5	$\Phi 12.2$	3.5	7	14.5	20.5	16	17.7	100
RM16S-8B-P	RM16S-8S-P	M16×1.5	$\Phi 16.2$	4	8	9	23.5	19.2	21.3	100
RM16L-8B-P	RM16L-8S-P	M16×1.5	$\Phi 16.2$	4	8	15	24	19.2	21.3	100
RM20S-12B-P	RM20S-12S-P	M20×1.5	$\Phi 20.2$	6	12	10	29	24.3	26.8	100
RM20L-12B-P	RM20L-12S-P	M20×1.5	$\Phi 20.2$	6	12	15	28.5	24.3	26.8	100
RM25L-17B-P	RM25L-17S-P	M25×1.5	$\Phi 25.2$	11	17	15	35	33.3	36.8	100

RSP series

STRAIN RELIEF CABLE GLAND



- A total of 14 models available for selection.
- Strain relief cap protects cables by preventing it from bending beyond its limit and breaking.
- Economical price but high waterproofing capability equivalent to IP67.

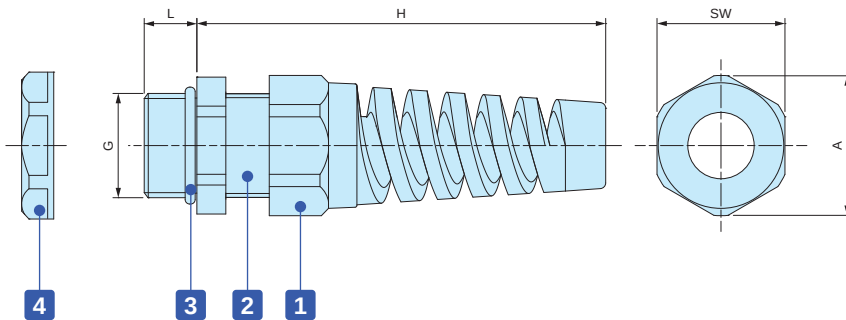
Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

RSP dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

■ PA = Polyamide

No.	Part name	Material
1	Strain relief cap	PA66 UL94V-2
-	Sealing insert	NBR
2	Connector	PA66 UL94V-2
3	O-ring	NBR
4	Lock nut	PA66 UL94V-2

Product no. / Details

Product no.		G		Cable range		L	H	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RSP 8-2.5B	RSP 8-2.5S	M 8×1.25	Φ 8.2	1	2.5	10.5	48	12.1	13.8	1
RSP 8-4B	RSP 8-4S	M 8×1.25	Φ 8.2	2.5	4	10.5	48	12.1	13.8	1
RSP10-6B	RSP10-6S	M10×1.5	Φ10.2	3	6	12.2	54	13.1	14.5	1
RSP12-6B	RSP12-6S	M12×1.5	Φ12.2	3.5	6	9	62	16	17	1
RSP16-8B	RSP16-8S	M16×1.5	Φ16.2	4	8	9	69	19.5	21	1
RSP20-11B	RSP20-11S	M20×1.5	Φ20.2	6	11	10	82	24	26	1
RSP25-16B	RSP25-16S	M25×1.5	Φ25.2	11	16	12	102	33	36	1



- High water protection IP68 (1bar / 30min) polyamide cable gland.
- Wide selection, for M8 ~ M50, suitable for $\Phi 2.5\text{mm}$ ~ $\Phi 42\text{ mm}$ cable.
- Super tough and superior heat resistant PA6GF (glass fiber filled PA6) material on cap and connector.
- Safer halogen free, eco-friendly product.

Technical Data

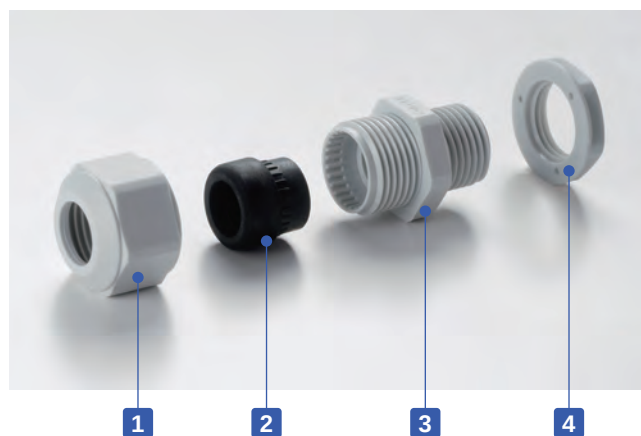
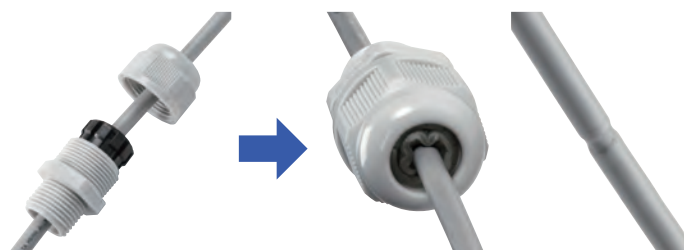
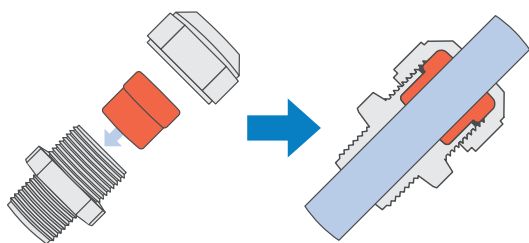
Protection class : IP68 1bar / 30min
 Operating temperature : -20°C ~ $+100^{\circ}\text{C}$
 Compliant with EN50262 Ver. A

AG series

Thicker sealing insert evenly hold a cable by having a larger holding area.
 Remains durable even after repeated tightening / loosening.

Lamellar insert type

If over-tightened, it can cause the rubber bush or cable to deform, which can allow water to seep in.



Components

■ PA6GF = Polyamide6 Glass Fiber Filled

No.	Part name	Material
1	Cap	PA6GF
2	Sealing insert	TPE
3	Connector	PA6GF
4	Lock nut	PA6

■ Lock nut is not included for M8 and M10 sizes.

Please drill an appropriate thread hole into the enclosure for installation.

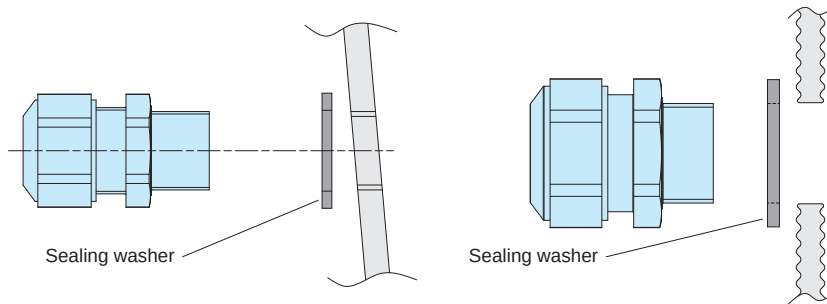
- Appropriate tightening torque varies by each cable diameter. Tighten the cap until top of the sealing insert forms a small bead between the cap and the cable.



■ No optional sealing washer is required when installing on an even surface because of the built-in waterproof rib.

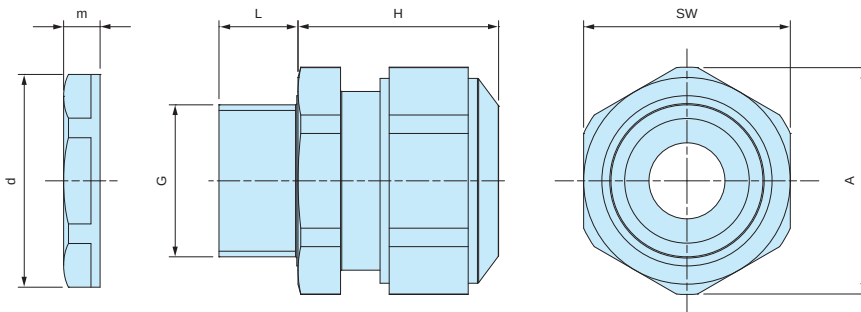
■ An optional sealing washer is required when installing on an uneven surface. (See website for more information on the optional sealing washer AGP series)

Waterproof rib



AG dimensions

■ DXF/DWG/PDF drawings available on our website.



■ Lock nut is not included for M8 and M10 sizes.

Please drill an appropriate thread hole into the enclosure for installation.

Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	d	m	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max							
AG8-3.5B	AG8-3.5S	M8×1.0	—	2.5	3.5	10	17	12	13.2	—	—	1
AG8-5B	AG8-5S	M8×1.0	—	3.5	4.7	10	17	12	13.2	—	—	1
AG10-6B	AG10-6S	M10×1.0	—	4	6	10	19	15	16.5	—	—	1
AG12-5B	AG12-5S	M12×1.5	Φ12.2	3.5	4.7	12	23.5	17	18.7	18.8	5	1
AG12-6.5B	AG12-6.5S	M12×1.5	Φ12.2	5	6.5	12	23	17	18.7	18.8	5	1
AG12-8B	AG12-8S	M12×1.5	Φ12.2	6.5	7.8	12	23	17	18.7	18.8	5	1
AG16-10B	AG16-10S	M16×1.5	Φ16.2	8	10	12	26	21	23.1	24.3	5	1
AG20-15B	AG20-15S	M20×1.5	Φ20.2	11	15	13	27	27	29.7	29	6	1
AG25-16B	AG25-16S	M25×1.5	Φ25.2	12.5	16	13	34	34	37.4	36	6.7	1
AG25-20B	AG25-20S	M25×1.5	Φ25.2	16	20	13	34	34	37.4	36	6.7	1
AG32-25.5B	AG32-25.5S	M32×1.5	Φ32.3	21	25.5	15	36	41	45.6	46	8	1
AG40-28.5B	AG40-28.5S	M40×1.5	Φ40.3	24	28.5	15	41	50	55.4	53.5	9	1
AG40-33B	AG40-33S	M40×1.5	Φ40.3	28.5	33	15	41	50	55.4	53.5	9	1
AG50-37B	AG50-37S	M50×1.5	Φ50.4	33	37	16	45	60	65.5	66	9.6	1
AG50-42B	AG50-42S	M50×1.5	Φ50.4	37	42	16	45	60	65.5	66	9.6	1

RMH series

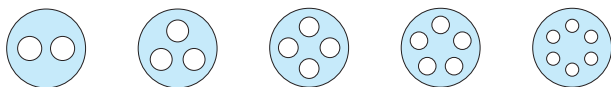
MULTI-HOLE CABLE GLAND



- Multihole cable gland with M threads.
- Multiple cables can be protected with single cable gland.
- Equivalent to IP65 protection class.
- Please use cables of the same diameter.



Up to a maximum of 6 cables can be protected with 1 cable gland.



Technical Data

Protection class : equivalent to IP65
Operating temperature : -20°C ~ +80°C

*In-house test

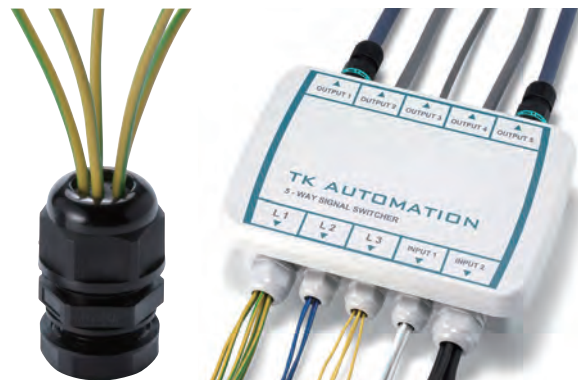
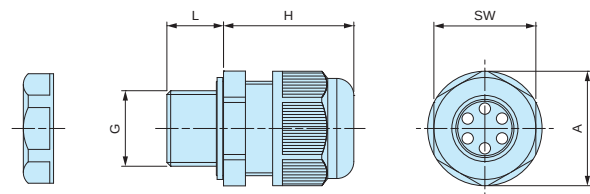
Components

No.	Part name	Material
1	Cap	PA66 UL94V-2
2	Sealing insert	NBR/PA66 UL94V-2
3	Connector	PA66 UL94V-2
4	O-ring	NBR
5	Lock nut	PA66 UL94V-2



RMH dimensions

■ DXF/DWG/PDF drawings available on our website.



Installation Examples

Product no. / Details

Product no.		G		Cable range		No. of holes	L	H	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min.	Max.						
RMH12-2B	RMH12-2S	M12×1.5	Φ12.2	2.5	3	2	9.4	26	18.9	21.2	1
RMH12-3B	RMH12-3S	M12×1.5	Φ12.2	2	2.5	3	9.4	26	18.9	21.2	1
RMH12-4B	RMH12-4S	M12×1.5	Φ12.2	2	2.5	4	9.4	26	18.9	21.2	1
RMH16-2B	RMH16-2S	M16×1.5	Φ16.2	3	4	2	15	29	22	24.7	1
RMH16-3B	RMH16-3S	M16×1.5	Φ16.2	3	4	3	15	29	22	24.7	1
RMH16-4B	RMH16-4S	M16×1.5	Φ16.2	2	3	4	15	29	22	24.7	1
RMH16-5B	RMH16-5S	M16×1.5	Φ16.2	2	2.5	5	15	29	22	24.7	1
RMH16-6B	RMH16-6S	M16×1.5	Φ16.2	1.5	2	6	15	29	22	24.7	1
RMH20-2B	RMH20-2S	M20×1.5	Φ20.2	4.5	6	2	15	34.5	27	30.3	1
RMH20-3B	RMH20-3S	M20×1.5	Φ20.2	4	5	3	15	34.5	27	30.3	1
RMH20-4B	RMH20-4S	M20×1.5	Φ20.2	4	4.5	4	15	34.5	27	30.3	1
RMH20-5B	RMH20-5S	M20×1.5	Φ20.2	3	4	5	15	34.5	27	30.3	1
RMH20-6B	RMH20-6S	M20×1.5	Φ20.2	2	3	6	15	34.5	27	30.3	1
RMH25-2B	RMH25-2S	M25×1.5	Φ25.2	6	8	2	15	37.5	33	37	1
RMH25-3B	RMH25-3S	M25×1.5	Φ25.2	5	7	3	15	37.5	33	37	1
RMH25-4B	RMH25-4S	M25×1.5	Φ25.2	4	6	4	15	37.5	33	37	1
RMH25-5B	RMH25-5S	M25×1.5	Φ25.2	4.5	5.5	5	15	37.5	33	37	1
RMH25-6B	RMH25-6S	M25×1.5	Φ25.2	3	4.5	6	15	37.5	33	37	1
RMH32-2B	RMH32-2S	M32×1.5	Φ32.3	8.5	11	2	15	44	42	46.5	1
RMH32-3B	RMH32-3S	M32×1.5	Φ32.3	9	10	3	15	44	42	46.5	1
RMH32-4B	RMH32-4S	M32×1.5	Φ32.3	8	9	4	15	44	42	46.5	1
RMH32-5B	RMH32-5S	M32×1.5	Φ32.3	6	8	5	15	44	42	46.5	1
RMH32-6B	RMH32-6S	M32×1.5	Φ32.3	5.5	7	6	15	44	42	46.5	1

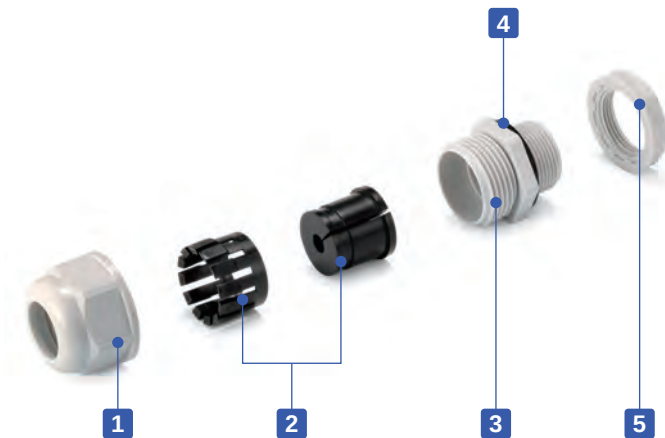


- Split type sealing insert can protect cables with connector.

Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

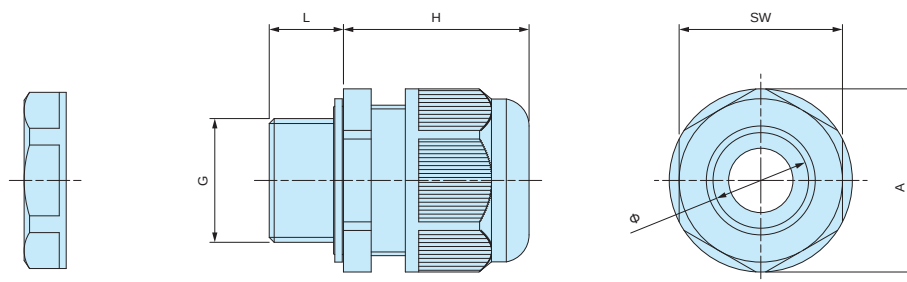


Components

No.	Part name	Material
1	Cap	PA66 (UL94V-2)
2	Sealing Insert	Silicone / PA66 (UL94V-2)
3	Connector	PA66 (UL94V-2)
4	Sealing Washer	Silicone
5	Lock Nut	PA66 (UL94V-2)

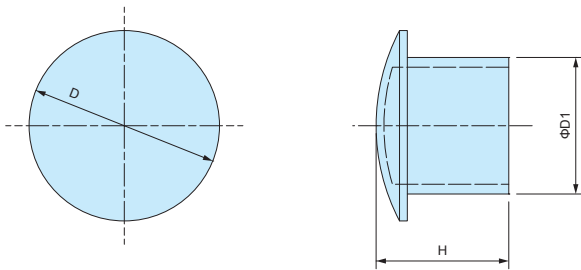
RSC dimensions

- DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	Φ	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max						
RSC25-6.5B	RSC25-6.5S	M25×1.5	Φ25.2	5	6.5	15	37.5	33	37	19	1
RSC25-10.5B	RSC25-10.5S	M25×1.5	Φ25.2	7.5	10.5	15	37.5	33	37	19	1
RSC32-6.5B	RSC32-6.5S	M32×1.5	Φ32.3	5	6.5	15	44	42	46.5	25	1
RSC32-10.5B	RSC32-10.5S	M32×1.5	Φ32.3	7.5	10.5	15	44	42	46.5	25	1

SP SERIES**SEALING PLUG****SP dimensions**

■ Material : Nylon

- Sealing plug for cable glands when not in use.
- Maintain a waterproof seal when plugged into the sealing insert on cable glands.

Product no. / Dimensions

Product no.	D	D1	H	Suitable cable glands	Pack of
SP-12	10.2	6	15.5	RMW12, RM12, RMW16, RM16, RPG7, RPG9	10
SP-16	15.6	9.5	15.5	RMW20, RM20, RPG11, RPG13.5	10
SP-20	19.6	13.5	16.5	RPG16	10
SP-25	24.4	17.5	17	RMW25, RM25, RMW32, RM32, RPG21	5
SP-40	32.5	24.5	17.5	RMW40, RM40, RPG29	5
SP-50	47.2	38.9	17.6	RMW50, RM50	5



- High water protection IP68 (1bar / 30min) polyamide cable gland.
- Wide selection, for M8 ~ M50, suitable for $\Phi 2.5\text{mm}$ ~ $\Phi 42\text{ mm}$ cable.
- Super tough and superior heat resistant PA6GF (glass fiber filled PA6) material on cap and connector.
- Safer halogen free, eco-friendly product.

Technical Data

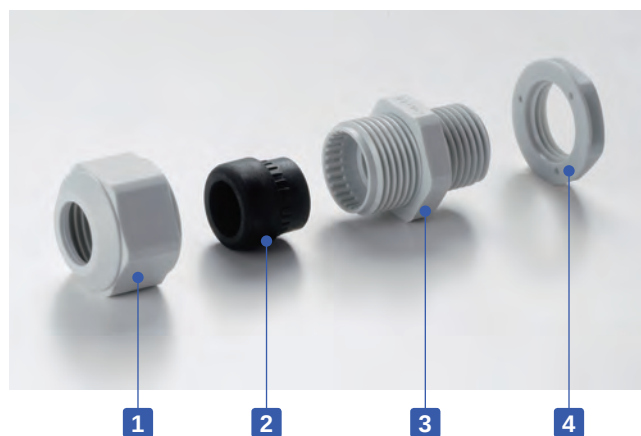
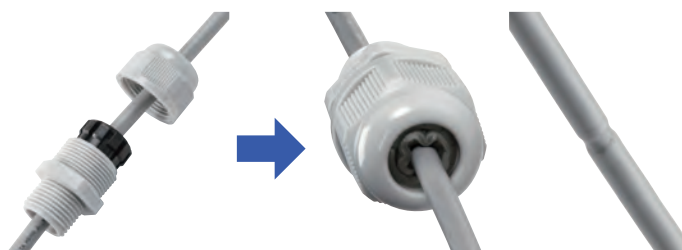
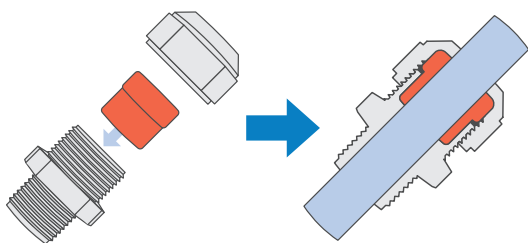
Protection class: IP68 1bar / 30min
 Operating temperature: -20°C ~ +100°C
 Compliant with EN50262 Ver. A

AG series

Thicker sealing insert evenly hold a cable by having a larger holding area.
 Remains durable even after repeated tightening / loosening.

Lamellar insert type

If over-tightened, it can cause the rubber bush or cable to deform, which can allow water to seep in.



Components

■ PA6GF = Polyamide6 Glass Fiber Filled

No.	Part name	Material
1	Cap	PA6GF
2	Sealing insert	TPE
3	Connector	PA6GF
4	Lock nut	PA6

■ Lock nut is not included for M8 and M10 sizes.

Please drill a proper thread hole into the enclosure for installation.

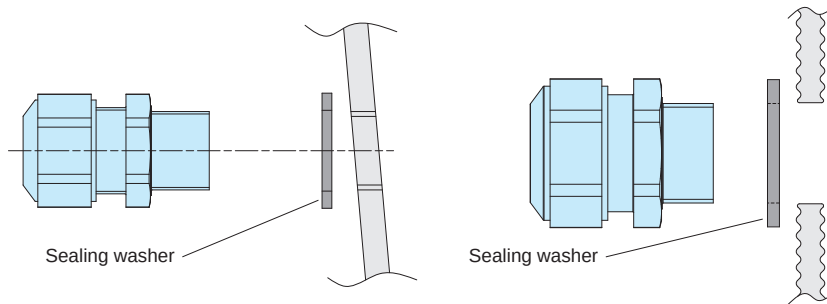
- Proper tightening torque varies by each cable diameter.
 Tighten the cap until top of the sealing insert forms a small bead between the cap and the cable.



■ No optional sealing washer is required when installing on an even surface because of the built-in waterproof rib.

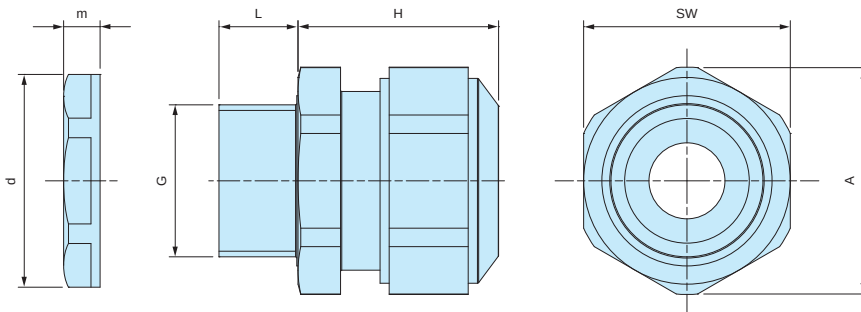
■ An optional sealing washer is required when installing on an uneven surface. (See website for more information on the optional sealing washer)

Waterproof rib



AG dimensions

■ DXF/DWG/PDF drawings available on our website.



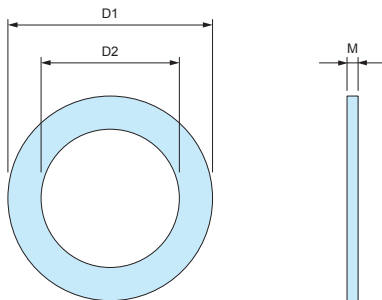
■ Lock nut is not included for M8 and M10 sizes.
Please drill a proper thread hole into the enclosure for installation.

Product no. / Dimensions

Product no.		G		Cable range		L	H Max	SW	A	d	m	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max							
AG8-3.5B	AG8-3.5S	M8×1.0	—	2.5	3.5	10	17	12	13.2	—	—	1
AG8-5B	AG8-5S	M8×1.0	—	3.5	4.7	10	17	12	13.2	—	—	1
AG10-6B	AG10-6S	M10×1.0	—	4	6	10	19	15	16.5	—	—	1
AG12-5B	AG12-5S	M12×1.5	Φ12.2	3.5	4.7	12	23.5	17	18.7	18.8	5	1
AG12-6.5B	AG12-6.5S	M12×1.5	Φ12.2	5	6.5	12	23	17	18.7	18.8	5	1
AG12-8B	AG12-8S	M12×1.5	Φ12.2	6.5	7.8	12	23	17	18.7	18.8	5	1
AG16-10B	AG16-10S	M16×1.5	Φ16.2	8	10	12	26	21	23.1	24.3	5	1
AG20-15B	AG20-15S	M20×1.5	Φ20.2	11	15	13	27	27	29.7	29	6	1
AG25-16B	AG25-16S	M25×1.5	Φ25.2	12.5	16	13	34	34	37.4	36	6.7	1
AG25-20B	AG25-20S	M25×1.5	Φ25.2	16	20	13	34	34	37.4	36	6.7	1
AG32-25.5B	AG32-25.5S	M32×1.5	Φ32.3	21	25.5	15	36	41	45.6	46	8	1
AG40-28.5B	AG40-28.5S	M40×1.5	Φ40.3	24	28.5	15	41	50	55.4	53.5	9	1
AG40-33B	AG40-33S	M40×1.5	Φ40.3	28.5	33	15	41	50	55.4	53.5	9	1
AG50-37B	AG50-37S	M50×1.5	Φ50.4	33	37	16	45	60	65.5	66	9.6	1
AG50-42B	AG50-42S	M50×1.5	Φ50.4	37	42	16	45	60	65.5	66	9.6	1

AGP SERIES**SEALING WASHER for AG • AGSP**

- Sealing washer for AG series.
- Made from oil resistant NBR material.
- Use in the case of installation on a rough or uneven surfaces.
- Selectable in 7 sizes (from M12 to M50)
- Sealing washer is not necessary for installation on flat surfaces.

AGP Dimensions

- Material : NBR

**Product no. / Dimensions**

Product no.	D1	D2	M	Suitable cable gland	Pack of
AGP-12	20	12	1.6	AG12	10
AGP-16	23.5	16.5	2.0	AG16	10
AGP-20	29	20	2.0	AG20	10
AGP-25	37	25	2.0	AG25	10
AGP-32	44	32	2.2	AG32	5
AGP-40	52	40	2.2	AG40	5
AGP-50	64	50	3.1	AG50	5



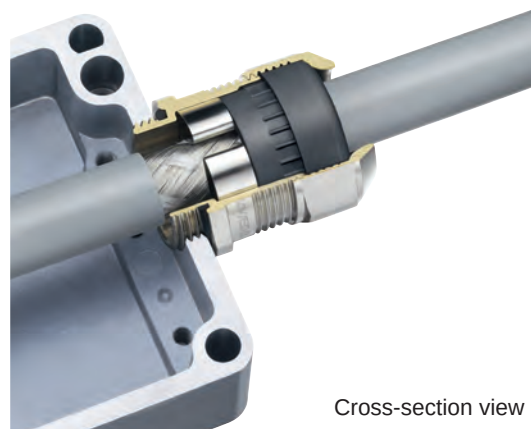
- Optimal contact spring provides excellent shield contact and the smallest possible transfer impedance.
- Clawed lock nut makes a good EMC shield contact possible on conductive enclosures.
- Shape of the contact spring not only allows for a large clamping range to the shield but also enables easy and faster installation and re-installation.
- 2-piece detachable sealing inserts can be adapted to the wider existing cable diameter on site.
(AGE12 available only with 1-piece sealing insert)

Technical Data

Protection class : IP68 2bar / 30min, IP69K
 Operating temperature : -60°C ~ +100°C
 Compliant with IEC62444 Var. A

Cable Range

No.	Sealing insert type	
	Assembled	Detached
AGE16-10.5	Φ 6 ~ Φ 7.5	Φ 7.5 ~ Φ10.5
AGE20-15	Φ 8 ~ Φ10.5	Φ10.5 ~ Φ15
AGE25-20	Φ12.5 ~ Φ15	Φ15 ~ Φ20
AGE32-25	Φ17 ~ Φ20	Φ20 ~ Φ25



Cross-section view

Components

No.	Part name	Material	Color / Finish
1	Cap	Brass	Nickel plated
2	Sealing insert	TPE	Black
3	Connector	Brass	Nickel plated
4	Contact spring	Stainless steel	Unfinished
-	O-Ring	NBR	Black
5	Lock-nut	Brass	Nickel plated

INSTALLATION Instruction



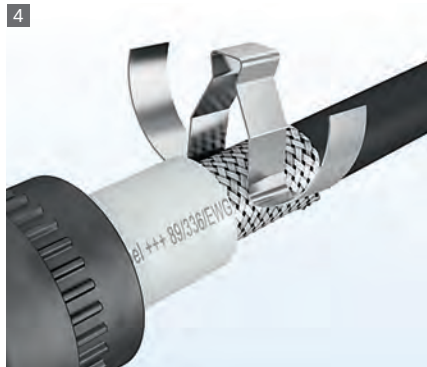
Remove the contact spring from the connector.



Install the connector onto the enclosure.



Strip the cable.



Clip the contact spring on the shielded cable.



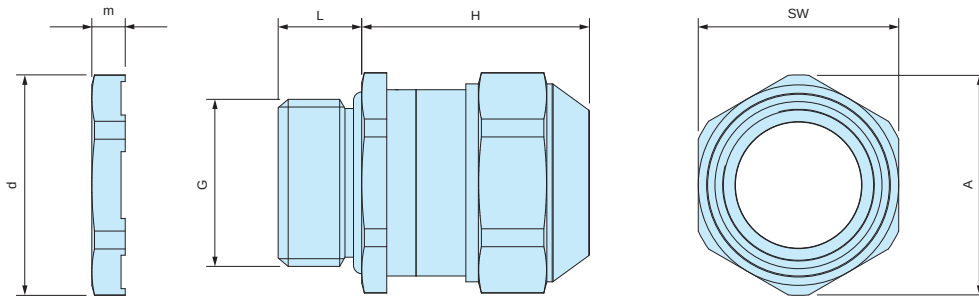
Pass the cable through the sealing insert and cap.



Tighten the cap to complete.

AGE dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	G		Cable range		L	H Max	SW	A	d	m	Pack of
	Thread size	Mounting hole	Min	Max							
AGE12-5	M12×1.5	Φ12.2	3.5	5.0	10	22	15	16.5	16.5	3.5	1
AGE12-6.5	M12×1.5	Φ12.2	5.0	6.5	10	22	15	16.5	16.5	3.5	1
AGE16-10.5	M16×1.5	Φ16.2	6.0	10.5	10	25	18	20	21	3.5	1
AGE20-15	M20×1.5	Φ20.2	8.0	15.0	10	27	24	26.5	26.5	4	1
AGE25-20	M25×1.5	Φ25.2	12.5	20.0	11	33	30	33	33	4	1
AGE32-25	M32×1.5	Φ32.3	17.0	25.0	13	34	36	39.5	39.5	5	1



- Economical metal cable gland.
- Equivalent to IP67 protection class.
- Wide selection available from M12 ~ M32.

Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

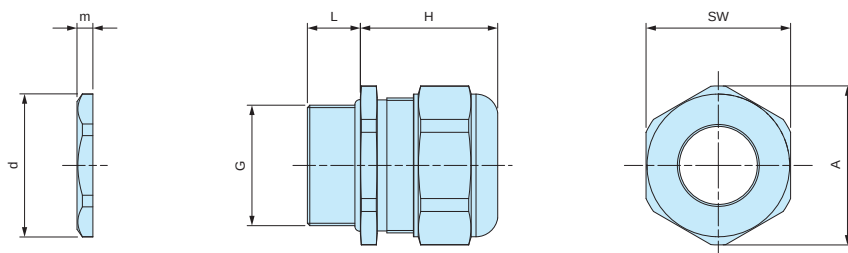


Components

No.	Part name	Material	Color / Finish
1	Cap	Brass	Nickel plated
2	Sealing Insert	TPE	Black
3	Connector	Brass	Nickel plated
—	O-ring	NBR	Black
4	Lock Nut	Brass	Nickel plated

RMC dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	G		Cable range		L	H Max	SW	A	d	m	Pack of
	Thread size	Mounting hole	Min	Max							
RMC12-6.5	M12×1.5	Φ12.2	5	6.5	10	18	15	16.5	15.4	2.5	1
RMC12-7.5	M12×1.5	Φ12.2	6.5	7.5	10	18	15	16.5	15.4	2.5	1
RMC16-8	M16×1.5	Φ16.2	6.5	8	10	23	18	19.7	19.7	2.8	1
RMC16-10.5	M16×1.5	Φ16.2	8	10.5	10	23	18	19.7	19.7	2.8	1
RMC20-11	M20×1.5	Φ20.2	9.5	11	10	23.5	24	26.4	24.2	3.2	1
RMC20-14.5	M20×1.5	Φ20.2	11	14.5	10	23.5	24	26.4	24.2	3.2	1
RMC25-16	M25×1.5	Φ25.2	14	16	11	28.5	30	33	29.7	3.3	1
RMC25-19	M25×1.5	Φ25.2	16	19	11	28.5	30	33	29.7	3.3	1
RMC32-21	M32×1.5	Φ32.3	18	21	13	30.5	36	39.6	37.4	3.5	1
RMC32-25.5	M32×1.5	Φ32.3	21	25.5	13	30.5	36	39.6	37.4	3.5	1

SHP series

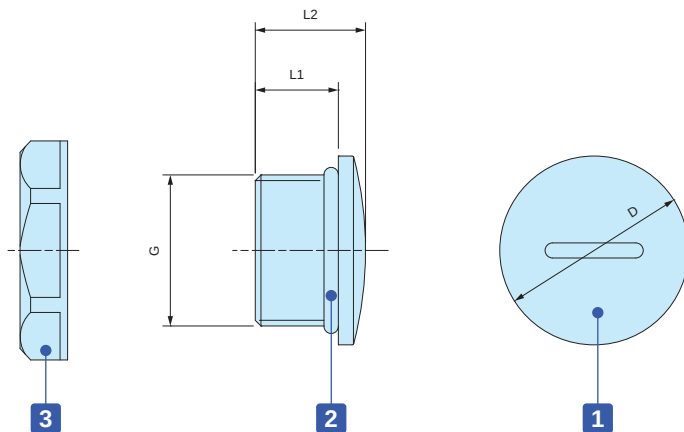
BLIND PLUG with O-ring

IP67



- A hole plug for sealing holes that are not in use.
- IP67 rating is achieved through the use of a lock nut.
- Waterproofing is not guaranteed when directly secured through thread holes.

SHP dimensions



A gloss-like finish distinctive to injection molded products may be visible in certain areas of the black color type. This does not affect the performance of the product.

Components

■ PA = Polyamide

No.	Part name	Material
1	Housing	PA66 (UL94V-2)
2	O-ring	NBR
3	Lock nut	PA66 (UL94V-2)

Product no. / Details

Product no.		G		D	L1	L2	Pack of
● Black	● Light gray	Thread size	Mounting hole				
SHP-12B	SHP-12S	M12×1.5	Φ12.2	Φ16	9	12.2	1
SHP-16B	SHP-16S	M16×1.5	Φ16.2	Φ20	9	12.2	1
SHP-20B	SHP-20S	M20×1.5	Φ20.2	Φ25	11	14.6	1
SHP-25B	SHP-25S	M25×1.5	Φ25.2	Φ30	11	14.5	1
SHP-32B	SHP-32S	M32×1.5	Φ32.3	Φ38	11	15	1
SHP-40B	SHP-40S	M40×1.5	Φ40.3	Φ46	12	16	1

CVP series

VENTILATION PLUG



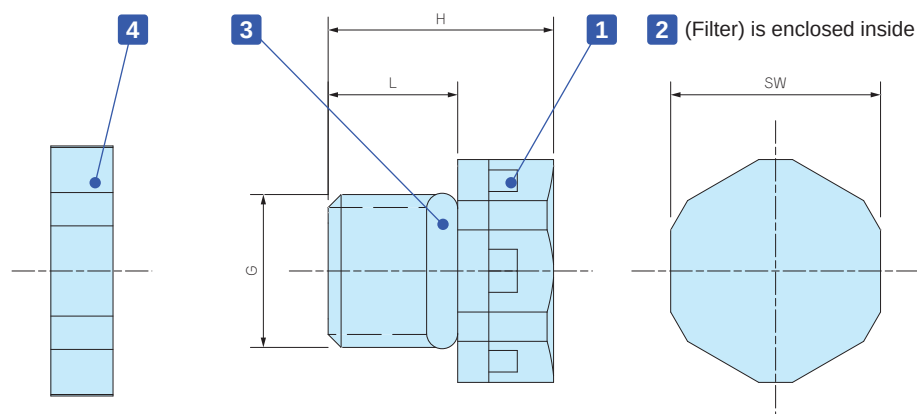
Pressure Equalization / Ventilation



- IP68 protection class rated (water depth 2 meters / 60 mins) yet highly affordable economical ventilation plug.
- Ventilation plug protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- 50 pcs value pack is available for CVP-6, 12 and 16 models.
- Recommended to be installed at the sides of the enclosure.

CVP dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

■ PA = Polyamide

No.	Part name	Material
1	Housing	PA66 (UL94V-2)
2	Filter	PTFE
3	O-ring	Silicone
4	Lock nut	PA66 (UL94V-2)

Technical Data

Product no.	CVP-6W/B	CVP-12W/B	CVP-16W/B	CVP-24W/B
Airflow	600ml / min (dp = 7kPa)	1200ml / min (dp = 7kPa)	1600ml / min (dp = 7kPa)	1600ml / min (dp = 7kPa)
Certification	IP68 (1hours / 2m-depth)			
Operating temperature	-20°C ~ +80°C			

■ Airflow value listed is for reference only; check under actual usage conditions.

Product no. / Details

Product no.		G		SW	H	L	Pack of	Weight (g)
● Off-white	● Black	Thread size	Mount hole					
CVP- 6W	CVP- 6B	M 6 × P0.75	Φ 6.2	10	12.7	8.2	1	0.8
CVP-12W	CVP-12B	M12 × P1.5	Φ12.2	16.2	17.4	10	1	2.7
CVP-16W	CVP-16B	M16 × P1.5	Φ16.2	22	17	10.1	1	4.2
CVP-24W	CVP-24B	M24 × P1.5	Φ24.2	36	23.6	15	1	10.7
CVP- 6W-P	CVP- 6B-P	M 6 × P0.75	Φ 6.2	10	12.7	8.2	50	—
CVP-12W-P	CVP-12B-P	M12 × P1.5	Φ12.2	16.2	17.4	10	50	—
CVP-16W-P	CVP-16B-P	M16 × P1.5	Φ16.2	22	17	10.1	50	—

PMF series

PROTECTIVE VENT

Pressure Equalization / Ventilation

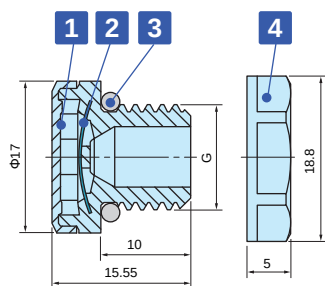


Application Example

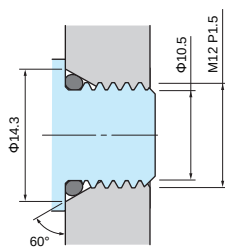
- Protective vent protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- IP68 protection class (water depth 2 meters / 60 mins) with an operating temperature range -40°C ~ +125°C allows them to be used in harsh environments.
- PMF-12 and PMF-12HS models are suitable for up to 5 and 50 liters respectively.
- Recommended to be installed at the sides of the enclosure.
- Use in industrial and electrical / electronic products only; not suitable to be used in medical, food and beverage, and cosmetic industries and related industrial equipment.

PMF dimensions

■ DXF/DWG/PDF drawings available on our website.

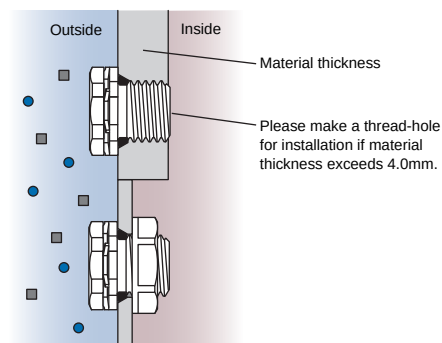


Hole milling drawings



- Recommended for prevention of O-ring deformation during tightening.
If tightened with a lock nut, a standard through-hole is sufficient for installation.

Installation drawings



- If used with a lock nut, material thickness should not exceed 4.0mm.

Technical Data

Product no.	PMF-12	PMF-12HA
Airflow	450ml / min (dp = 7kPa)	4,000ml / min (dp = 7kPa)
Recommended torque	0.6 ~ 0.8N・m	0.6 ~ 0.8N・m
Certifications	IEC60529 (Protection class test) : IP65・IP66・IP67・IP68・IP69K IEC60068-2-1, 2, 14 (Heat resistance test) : - 40°C ~ +125°C IEC60068-2-78 (Humidity test) : 85°C・85% humidity・1,000 hours IEC60068-2-11, 52 (Salt spray test) IEC60068-2-64 (Vibration test) GR-3108-CORE (Corrosive gas test) UL 94V-0 (Flame-resistant)・UL 746C f1	

Product no. / Details

Product no.		Material				G		Lock nut SW
● Light gray	● Black	1 Housing	2 Filter	3 O-ring	4 Lock nut	Thread size	Mount hole	
PMF-12S	PMF-12B	PA66 / 6	PTFE	Silicone	PA66 (UL94V-2)	M12 x P1.5	Φ12.2	17
PMF-12HAS	PMF-12HAB	PA66 / 6	PTFE	Silicone	PA66 (UL94V-2)	M12 x P1.5	Φ12.2	17

PMF-32S

LARGE PROTECTIVE VENT

Pressure Equalization / Ventilation



Application Example

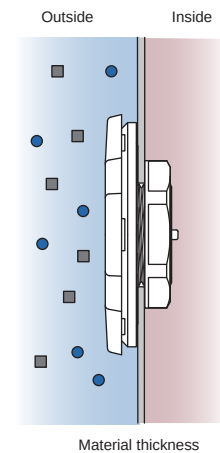
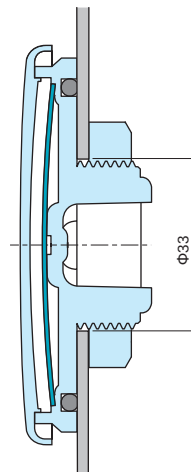
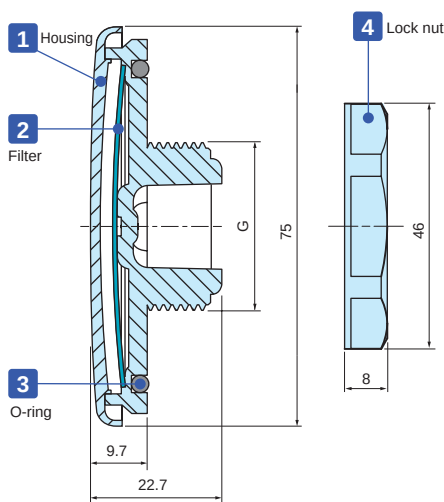
- Maintains exceptionally high airflow in extra-large enclosures with volumes of up to 200 liters in an outdoor environment.
- Protective vent protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- Simple and flat design allows it to be used on a wide variety of enclosure types.
- IP68 protection class rated (water depth 2 meters / 60 mins) with an operating temperature range of -40°C ~ +125°C allows it to be used in harsh environments.
- Compliant with Solar industry testing IEC62108 standards.
- Recommended to be installed at the sides of the enclosure.
- Use in industrial and electrical / electronic products only; not suitable to be used in medical, food and beverage, and cosmetic industries and related industrial equipment.

■ DXF/DWG/PDF drawings available on our website.

PMF-32 dimensions

Hole milling drawings

Installation drawings



■ If used with a lock nut, material thickness should not exceed 5.0mm.

Technical Data

Airflow	16ℓ / min (dp = 1.2kPa)
Recommended torque	5 N • m
Certifications	IEC529, 2nd (Protection class test) : IP66 • IP67 • IP68 • IP69K IEC60068-2-1, 2, 14 (Heat resistance test) : - 40°C ~ +125°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1,000 hours IEC60068-2-11, 52 (Salt spray test) IEC60068-2-64 (Vibration test) IEC62108, 10.8 • 9 (Solar industry test) : Freezing • High temperature tes • Hail impact test GR-3108-CORE (Corrosive gas test) UL94V-0 (Flame-resistant) • UL746C f1

Product no. / Details

Product no.	Material				G			Lock nut SW
	1 Housing	2 Filter	3 O-ring	4 Lock nut	Thread size	Thread diameter	Mount hole	
PMF-32S	Polycarbonate	PTFE	Silicone	PA66	M32 x P1.5	Φ32	Φ33	41.5

CVP-M series

METAL VENTILATION PLUG



Pressure Equalization / Ventilation

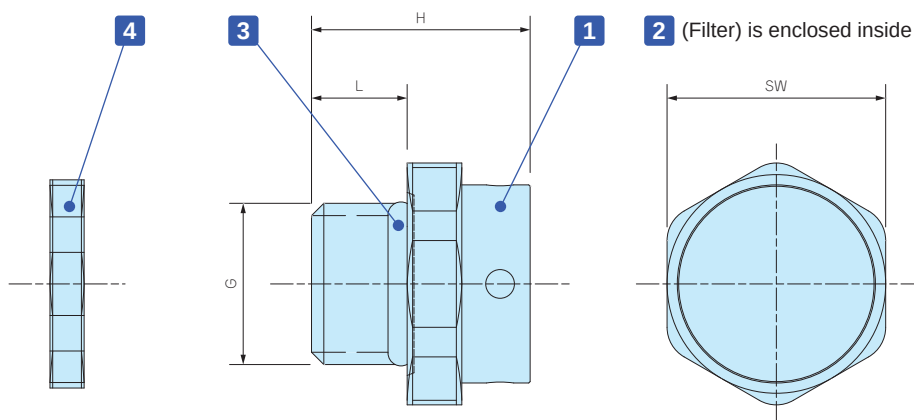
IP68



- High durability yet highly affordable economical metal ventilation plug.
- IP68 protection class rated (water depth 2 meters / 60 mins)
- Ventilation plug protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- Recommended to be installed at the sides of the enclosure.

CVP-M dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

No.	Part name	Material
1	Housing	Brass / Nickel plated
2	Filter	PTFE
3	O-ring	Silicone
4	Lock nut	Brass / Nickel plated

Technical Data

Product no.	CVP-6M	CVP-12M	CVP-20M
Airflow	400ml / min (dp = 7kPa)	1200ml / min (dp = 7kPa)	1600ml / min (dp = 7kPa)
Certification	IP68 (1 hour / 2m depth)		
Operating temperature	-40°C ~ +100°C		

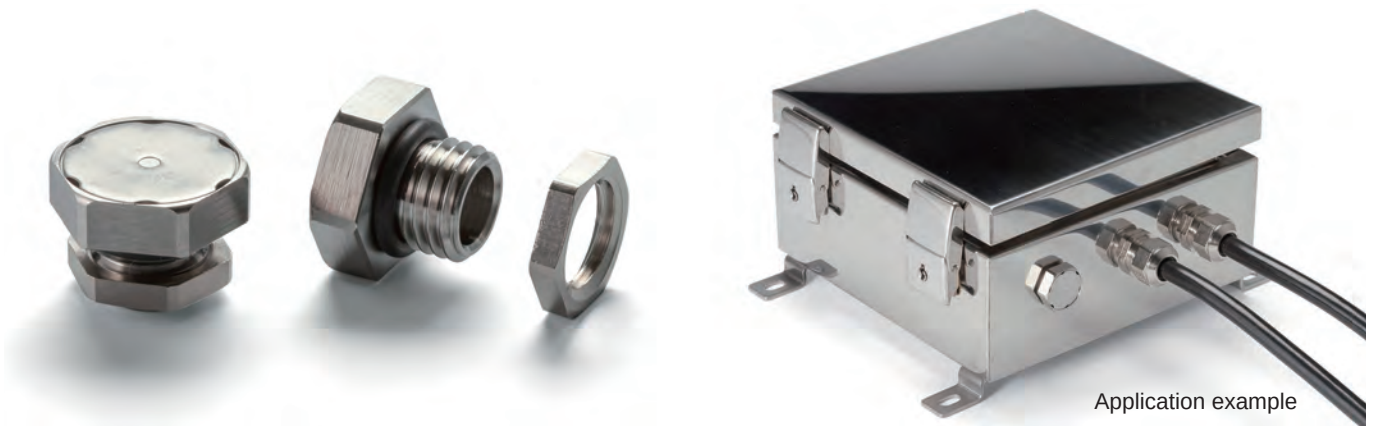
■ Airflow value listed is for reference only; check under actual usage conditions.

Product no. / Details

Product no.	G		SW	H	L	Weight (g)
● Silver	Thread size	Mount hole				
CVP- 6M	M 6 × P1	Φ 6.2	10	15	7	6.2
CVP-12M	M12 × P1.5	Φ12.2	16	16	7	14
CVP-20M	M20 × P1.5	Φ20.2	22	18.9	10	40.2

PMF-12M

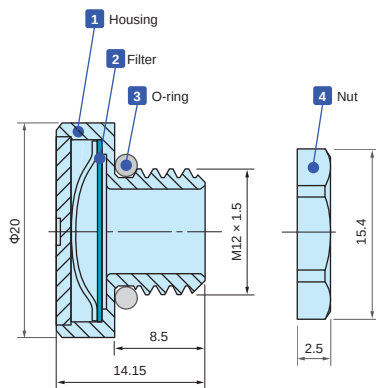
STAINLESS STEEL PROTECTIVE VENT



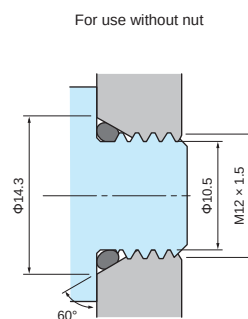
Application example

- Stainless steel protective vent for superior durability and chemical resistance.
- IP68 protection class (water depth 2 meters / 60 mins) and -40°C ~ +125°C operating temperature range allows it to be used in various environments.
- Suitable for enclosures with capacities of 20 litres or under.
- For outdoor use, installation on the side of the enclosure unit is recommended.

PMF-12M dimensions

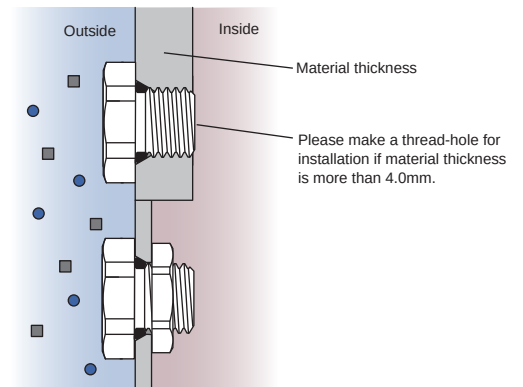


Hole milling drawings



- While Φ12.2mm through-hole is sufficient for installation, 60° angle tapered hole is recommended to prevent deformation of the O-ring.

Installation drawings



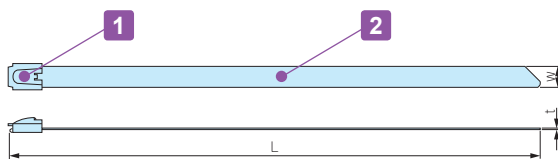
- If used with a lock nut, material thickness should not exceed 4.0mm.

Technical Data

Airflow	1600ml / min (dp = 7 kPa)
Recommended Torque	0.6 ~ 1.2 N • m
Certifications	IEC60529 (Protection class test) : IP66 • IP67 • IP68 • IP69K IEC60068-2-1, 2, 14 (Heat resistance test) : -40°C ~ +125°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1000 hours IEC60068-2-64 (Vibration test)

Product no. / Details

Product no.	Material				G		Nut SW
● Metallic	1 Housing	2 Filter	3 O-ring	4 Nut	Thread size	Mount hole	
PMF-12M	Stainless steel	PTFE	Silicone	Brass • Nickel plated	M12 x 1.5	Φ12.2	14

SCT series**STAINLESS STEEL TIES for POLE MOUNTING**

- Corrosion resistant stainless steel (SUS304) cable tie.
- Can be used to bundle cables or mounting enclosures to poles.
- Self-locking bracket allows easy mounting / cable bundling.
- Designed for one time use only (not reusable).

- Suitable for easy mounting.
- Wear gloves or other protections while installation.

Components

No.	Part name	Pcs	Material	Finish
1	Bracket	1	Stainless steel SUS304	Polished
2	Strap	1	Stainless steel SUS304	Polished

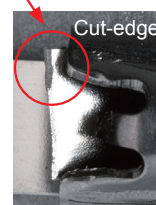
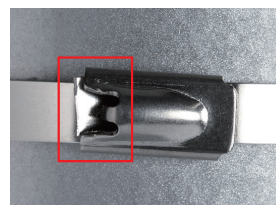
Product no. / Details

Product no.	W	L	t	Pack of
SCT 4.6- 100	4.6	100	0.25	10
SCT 4.6- 150	4.6	150	0.25	10
SCT 4.6- 200	4.6	200	0.25	10
SCT 4.6- 300	4.6	300	0.25	10
SCT 4.6- 500	4.6	500	0.25	2
SCT 4.6-1000	4.6	1,000	0.25	2
SCT 4.6-1500	4.6	1,500	0.25	2
SCT 7.9- 100	7.9	100	0.25	10
SCT 7.9- 150	7.9	150	0.25	10
SCT 7.9- 200	7.9	200	0.25	10
SCT 7.9- 300	7.9	300	0.25	10
SCT 7.9- 500	7.9	500	0.25	2
SCT 7.9-1000	7.9	1,000	0.25	2
SCT 7.9-1500	7.9	1,500	0.25	2

G3388**TIGHTEN GUN for SCT**

- Tool for cutting and tightening stainless steel strap.

*Be careful of the sharp cut-edge of strap.



Note: Tighten gun is not subject to RoHS regulations.

Product no.

G3388