

PROTECTION CLASS (IP RATING)

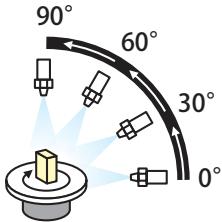
IP67
is

●IEC60529 standard is a system for classifying the degrees of protection provided by the enclosures of electrical equipment, such as against dust and water.

IP  

First digit : Solid particle protection

No.	Protection against ingress of solid foreign objects	Protection against access to hazardous parts
0	No Protection	No Protection
1	 Ø50mm Protected against solid objects over 50mm.	 50 Protected against accidental touch by a large surface of the body, such as by hands. (Tested with a 50mm diameter steel ball.)
2	 Ø12.5mm Protected against solid objects over 12.5mm.	 12 Protected against accidental touch by fingers or similar objects (Tested with a 12mm diameter, 80mm long articulated finger)
3	 Ø2.5mm Protected against solid objects over 2.5mm.	 2.5 Protected against accidental touch by tools or thick wires. (Tested with a 2.5mm diameter, 100mm long bar)
4	 Ø1mm Protected against solid objects over 1.0mm.	 1.0
5	 Protected against dust; limited ingress, no harmful deposits.	Protected against accidental touch by most wires and screws. (Tested with a 1.0mm diameter, 100mm long wire)
6	 Complete protection against dust.	

69K		80 to 100 barrel steam jets at 80°C (±5°C) from a 0°, 30°, 60°, and 90° angle, at a distance of 100 ~ 150mm for 30 sec x 5 sets
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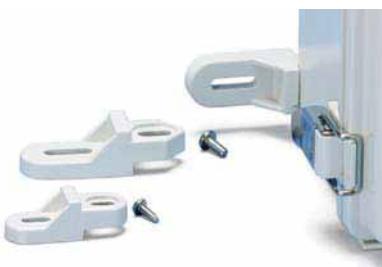
Second digit: Liquid ingress protection

No.	Protection against ingress of liquid
0	No Protection
1	Dripping water (vertically falling drops) for 10 minutes.
2	Vertically dripping water when tilted at 15° for 10 minutes (2.5 minutes per position).
3	Spraying water (at any angle) of 0.07l/min up to 60° from the vertical for 10 minutes.
4	Spraying water of 0.07l/min from all directions for 10 minutes.
5	Jets of water projected by a φ6.3 nozzle of 12.5l / min from all directions at 1 min / 1m ² for at least 3 minutes.
6	Powerful jets of water projected by a φ12.3 nozzle of 100l / min from all directions at 1 min / 1m ² for at least 3 minutes.
7	Immersion, up to 1 meter depth (for 30 mins).
8	Immersion (test depth and duration beyond IPX7 requirements)

A point of note for Waterproof Boxes

- For outdoor use, direct sunlight will accelerate the degradation of the box. For more information, please see page Outdoor Use - 1.
- For customers planning to attach their own original mounting brackets onto the waterproof boxes, it is recommended to mill larger holes with enough clearance to attach the bracket. If the milled hole and clearance is too small, it may cause irreparable damage to the box.
- Waterproof boxes made of Polycarbonate or ABS plastic material may be damaged if certain types of washing chemicals, solvents, oils, or thread locking adhesives are present on the box. Furthermore, paint not suitable to be used on plastic materials may also cause damage.

IP65 LATCH-HINGED PLASTIC BOX



Stainless steel and plastic mounting brackets are available.
See page 256



BCAR • BCPR series comes with an attachable BRF series outdoor roof.
See page 245 ~ 246 and 251 ~ 252



Pole mounting bracket for pole installation
See page 257 ~ 258



Dust protection cap (for lock/key type)
See page 252



Cable gland
For waterproofing enclosure openings for cables and wires
See cable gland pages



Mounting plate
3 types of mounting plates are available (plastic / steel / wood)
See page 253 ~ 255



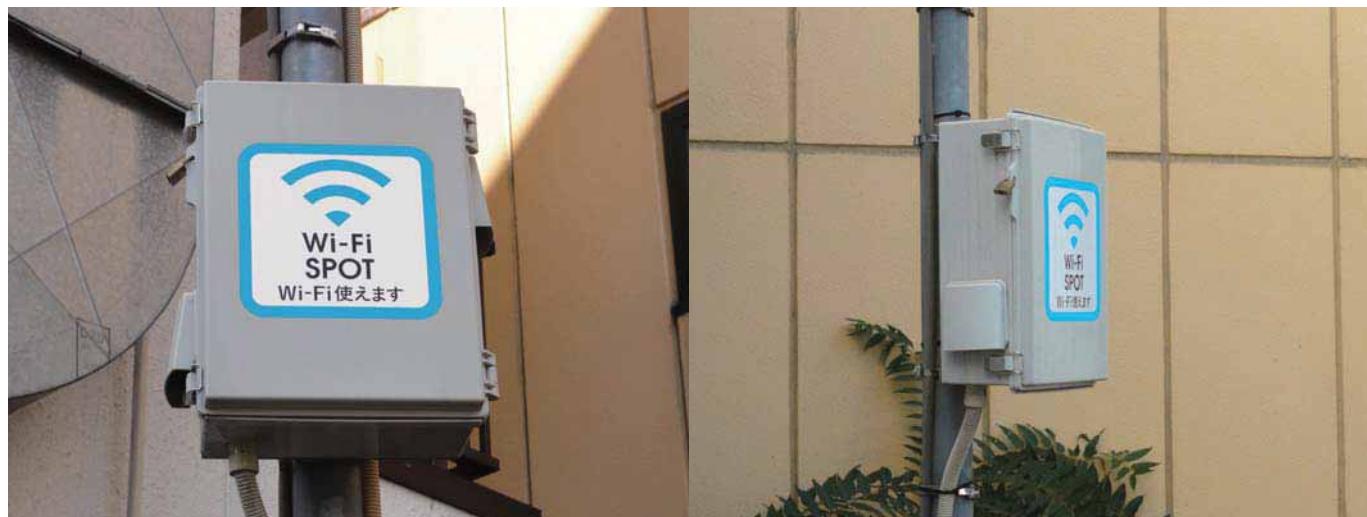
Ventilation cover
For heat dissipation and prevention of condensation build-up
See page 262

APPLICATION EXAMPLE

Universal plastic enclosure series suitable for a wide range of applications such as FA/control, electrical switchboard, network communication and so on.

OUTDOOR WiFi SPOT

Product by Spectra Quest Lab. (Japan)

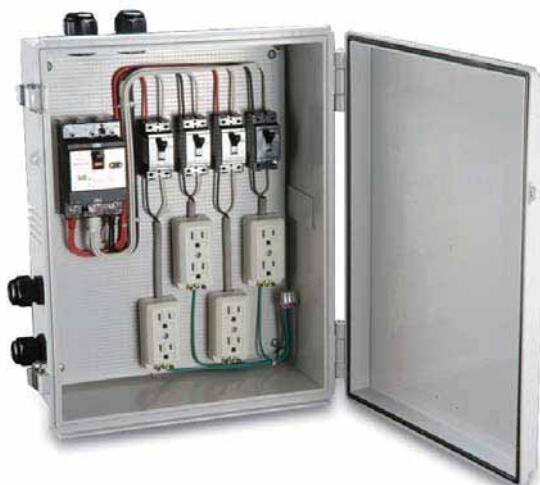


SOLAR POWER JUNCTION BOX

Product by Kansai Denki (Japan)

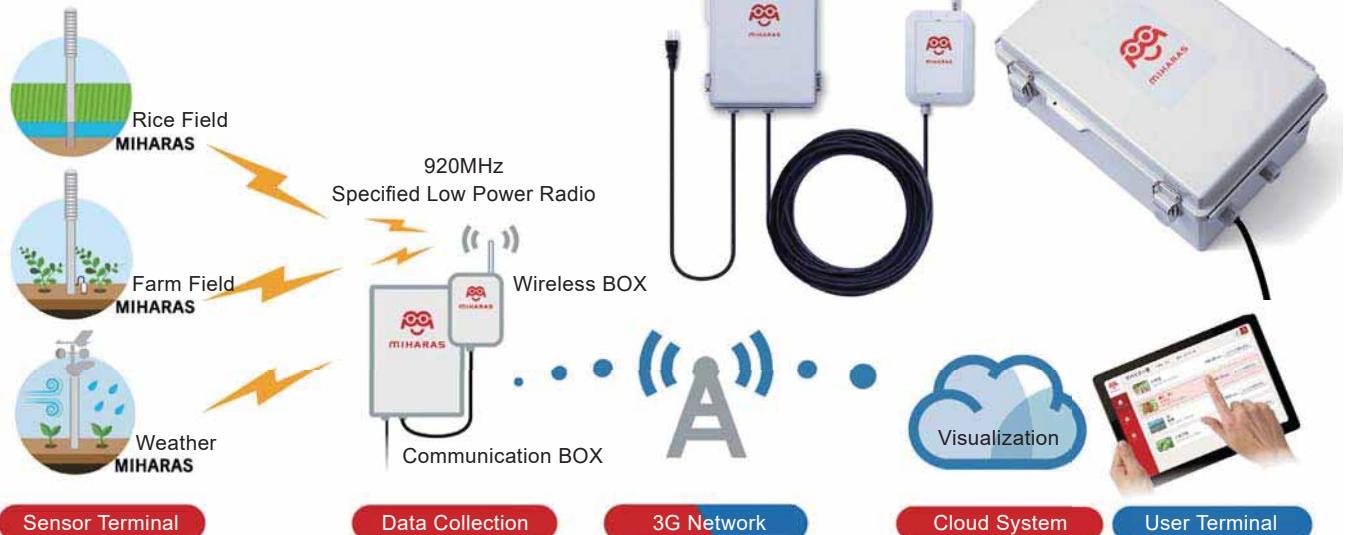


POWER SWITCHBOARD BOX



IOT SENSOR DATA LOGGER for AGRICULTURE

Product by Nishimu Electronics Industries (Japan)



Environmental Data Measurement and Controller Unit

Product by eSOL (Japan)



"SenSu" COMMUNICATION UNIT with SENSOR

Product by DATA TECHNOLOGY (Japan)



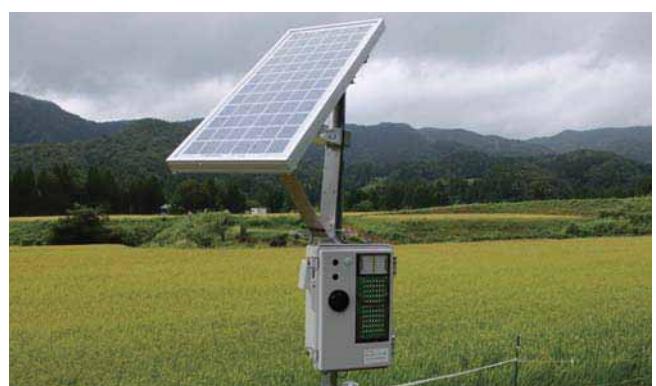
NETWORK SENSOR SYSTEM for AGRICULTURE

Product by CM Engineering (Japan)



WILDLIFE DAMAGE MONITORING SYSTEM

Product by CM Engineering (Japan)

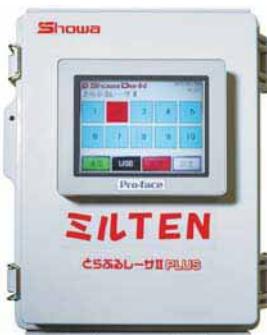


VALVE CONTROLLER

Product by EXEN (Japan)

**BUILDING SURVEILLANCE UNIT**

Product by Showa Denki (Japan)

**DIGITAL PRESSURE GAUGE**

Product by KRONE CORPORATION (Japan)

**RADIATION MONITOR****POWER SAVER for AIR CONDITIONING**

Product by Synapse (Japan)

ANEMOMETER

Product by Fieldpro (Japan)

**WATER GAUGE**

Product by Fieldpro (Japan)

**GROUND EXTENSOMETER**

Product by GeotechService (Japan)

MONITORING CAMERA

Product by ACE PROMOTION (Japan)

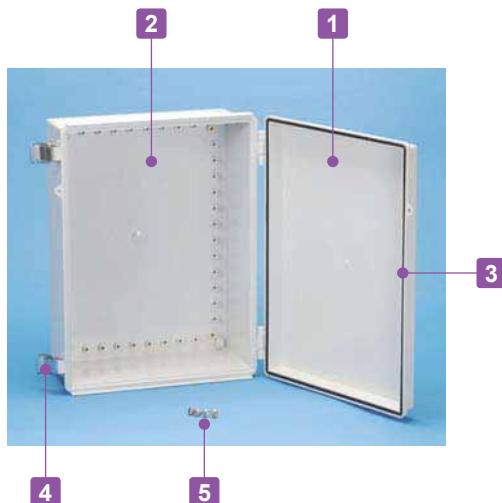


BCAP SERIES

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 mark is only applicable for BCPC series

- 50 different sizes available.
- 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 resistance properties.
- Applicable for various uses in fields such as FA, network communication, power switchbox controls and so on.

Components: BCAP series

■ Box UL class = UL94HB

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS • Polycarbonate	White gray • Transparent
2	Base	1	ABS	White gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw	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

■ Box UL class = UL94V-0

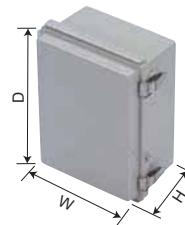
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate	Light gray
2	Base	1	Glass fiber filled polycarbonate	Light gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw	2 ~ 8	Steel	Trivalent chromate

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

Color Type

Color code	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. / Dimensions

Product no.	W	D	H	Weight (g)	
				G	T
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
BCAP172211□	170	220	110.5	530	556
BCAP172711□	170	270	110.5	670	680
BCAP192810□	190	280	100.5	722	746
BCAP192814□	190	280	141	877	901
BCAP203013□	200	300	131.5	920	951
BCAP203015□	200	300	151.5	958	984
BCAP203018□	200	300	180.5	1,066	1,084
BCAP212110□	210	210	100	630	656
BCAP212113□	210	210	130	704	726
BCAP253515□	250	350	151	1,261	1,332
BCAP253518□	250	350	181.5	1,397	1,464
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	121	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	255	6,911	-
BCAP608018G	630	830	188	8,131	-
BCAP608028G	630	830	288	9,570	-

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

BCPC Product no. / Dimensions

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
BCPC172211S	170	220	110.5	649
BCPC172711S	170	270	110.5	775
BCPC192810S	190	280	100.5	858
BCPC192814S	190	280	141	1,028
BCPC203013S	200	300	131.5	1,053
BCPC203015S	200	300	151.5	1,127
BCPC203018S	200	300	180.5	1,258
BCPC212110S	210	210	100	742
BCPC212113S	210	210	130	827
BCPC253515S	250	350	151	1,491
BCPC253518S	250	350	181.5	1,676
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	121	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	255	8,200
BCPC608018S	630	830	188	9,820
BCPC608028S	630	830	288	11,550

■ Refer to page 247 ~ 250 for detailed dimensions.

Accessories (Optional parts)

Mounting plate BMP series
See page 253 ~ 255Mounting bracket CK • BFL series
See page 256Pole mounting bracket SSK series
See page 257 ~ 258Cable gland
See cable gland pagesVentilation part
See page 259 ~ 262

BCPK SERIES

IP65 POLYCARBONATE PLASTIC BOX with LOCK



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.
- Transparent type is not available for BCPK507018, 507025, 608018, and 608028 models.

Box size
BCPK091207 ~ 172711
BCPK212110 and 212113

Box size
BCPK192810 ~ 203018
BCPK253515 and 608028

Components

■ Box UL class = UL94V-0

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

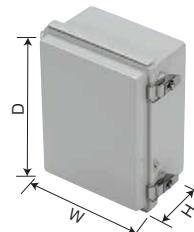
■ Stainless steel mounting brackets are included together with the following models: 506018, 506025, 507018, 507025, 608018, and 608028.

■ Quantity of keys provided vary by the number of locks present.

Color Type

Color code	Cover color / Material	Base color / Material
BCPK S	Light gray / Polycarbonate	Light gray / Glass fiber filled polycarbonate
NEW BCPK T	Transparent / Polycarbonate	Light gray / Glass fiber filled polycarbonate

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



Product no. / Dimensions

Product no.	W	D	H	Weight (g)	
				S	T
BCPK091207□	90	120	70	242	237
BCPK091208□	90	120	85	264	261
BCPK101507□	100	150	70	339	337
BCPK101508□	100	150	85	360	355
BCPK112107□	110	210	75	437	444
BCPK112110□	110	210	100	501	509
BCPK112607□	110	260	75	520	528
BCPK112610□	110	260	100.5	585	594
BCPK131508□	135	155	85	430	421
BCPK131808□	135	185	85.5	474	475
BCPK131810□	135	185	100.5	471	478
BCPK151509□	150	150	90	419	422
BCPK151512□	150	150	120.5	507	508
BCPK162110□	160	210	100	563	572
BCPK162113□	160	210	130	630	639
BCPK162610□	160	260	100	728	738
BCPK162613□	160	260	130	805	825
BCPK172211□	170	220	110.5	664	681
BCPK172711□	170	270	110.5	771	794
BCPK192810□	190	280	100.5	875	900
BCPK192814□	190	280	141	1,065	1,094
BCPK203013□	200	300	131.5	1,090	1,119
BCPK203015□	200	300	151.5	1,182	1,214
BCPK203018□	200	300	180.5	1,295	1,330
BCPK212110□	210	210	100	743	756
BCPK212113□	210	210	130	822	847
BCPK253515□	250	350	151	1,559	1,606
BCPK253518□	250	350	181.5	1,670	1,720
BCPK282813□	280	280	130.5	1,391	1,433
BCPK283813□	280	380	130	1,811	1,733
BCPK303015□	300	300	151	1,670	1,682
BCPK303018□	300	300	181	1,782	1,795
BCPK304012□	300	400	121	1,858	1,872
BCPK304015□	300	400	150	1,912	1,926
BCPK304018□	300	400	181	2,083	2,098
BCPK353515□	350	350	150	2,067	1,999
BCPK353518□	350	350	181	2,175	2,163
BCPK354512□	350	450	120	2,442	2,429
BCPK354516□	350	450	160	2,863	2,848
BCPK354520□	350	450	201	3,156	3,140
BCPK405016□	400	500	160	3,149	3,152
BCPK405020□	400	500	201	3,725	3,729
BCPK406018□	400	600	181	4,159	4,164
BCPK406023□	400	600	231	4,639	4,645
BCPK506018□	530	630	185	5,339	6,151
BCPK506025□	530	630	255	7,136	8,220
BCPK507018S	530	730	188	7,470	—
BCPK507025S	530	730	255	8,260	—
BCPK608018S	630	830	188	9,880	—
BCPK608028S	630	830	288	11,610	—

■ BCPK507018, 507025, 608018, 608028 models are only available as S color type. ■ Refer to page 247 ~ 250 for detailed dimensions.

Accessories (Optional parts)

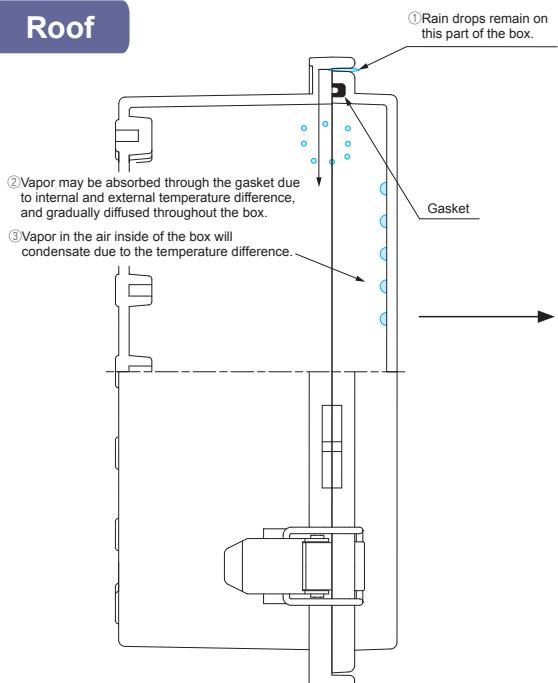
Dust protection cap BCC series
See page 252Mounting plate BMP series
See page 253 ~ 255Mounting bracket CK • BFL series
See page 256Cable gland
See page 265 ~ 272Ventilation part
See page 259 ~ 262

PLASTIC WATERPROOF BOX

OUTDOOR USE

*Below are application examples for outdoor use of plastic waterproof boxes. Depending on the usage environment, effectiveness may vary.

Roof



When installing waterproof box outdoors, installation under a roof, or attaching a roof accessory is recommended to prevent condensation inside the box.

This is especially so for transparent lid models which are affected by direct sunlight, causing the temperature inside of the box to be higher than non-transparent lid models.

Higher internal temperature (compared to the external part of the box) may cause vapor absorption, hence the importance of attaching a roof accessory.



■ Without roof attachment



■ With roof attachment

Protective Vent • Louver • Ventilation

Use to prevent condensation, as well as for ventilation. (Suitable parts vary depending on environment).



Protective Vent
PMF Series
See PMF pages



Louver
V Series
See V • VF pages



Ventilation Parts
VF series
See V • VF pages



Weather Resistant Coating

Weather resistant paint coating to protect against color fade and degradation. (ABS Plastic / 1 year exposure)

■ Before



■ After with coating



■ After without coating

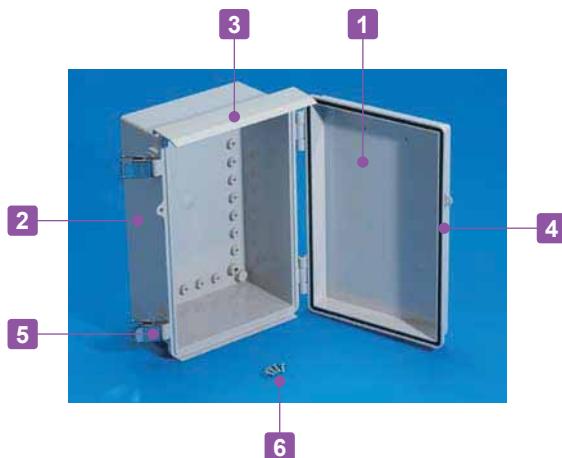
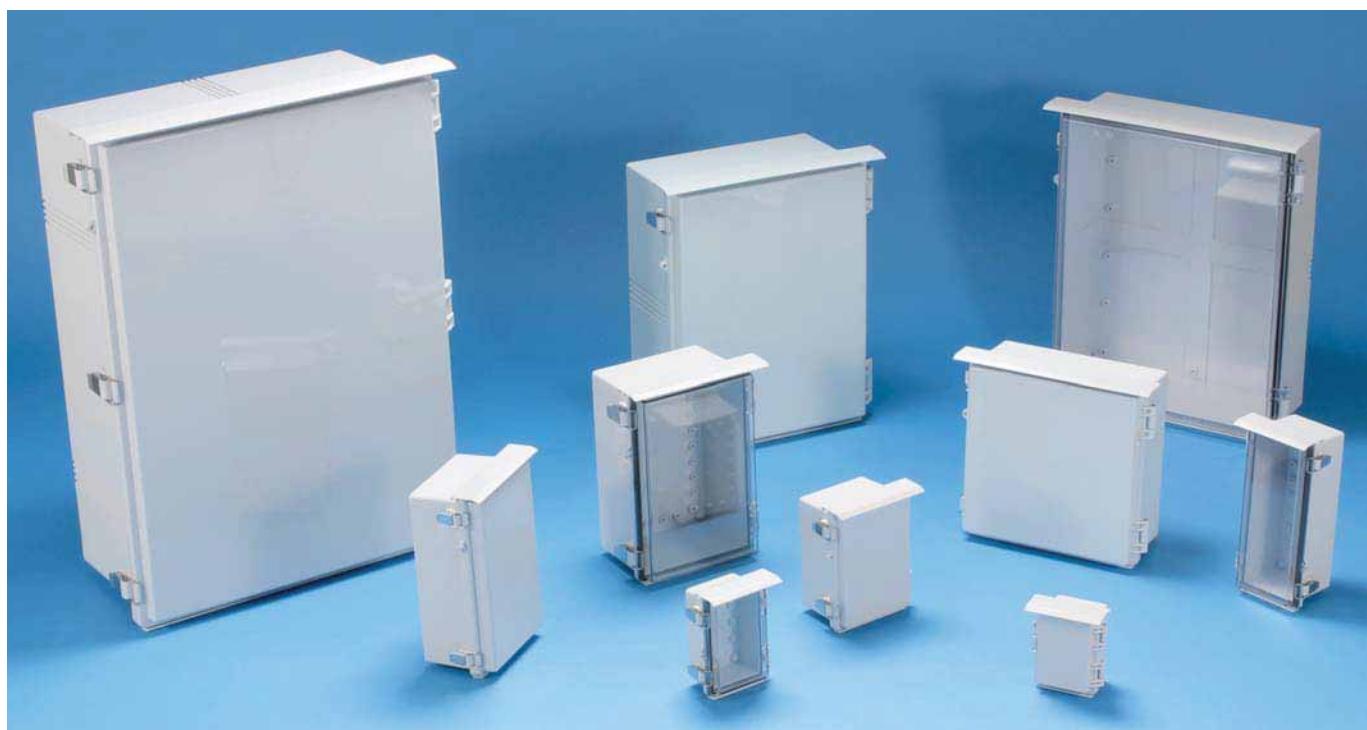


BCAR SERIES

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.
- 45 different sizes available.
- BCAR series is made of white gray ABS with 2 different cover type (white gray ABS and transparent polycarbonate).
- BCPR series is made of light gray UL94V-0 polycarbonate, which has good heat resistance properties.
- Transparent cover type is not available for BCAR507018, 507025, 608018, and 608028 models.

Components: BCAR series

■ Box UL class = UL94HB

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS • Polycarbonate	White gray • Transparent
2	Base	1	ABS	White gray
3	Roof	1	PVC	White gray
4	Gasket	1	Polyurethane	Black
5	Latch	1~3	Stainless steel	Unfinished
6	Screw	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

■ Box UL class = UL94V-0

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate	Light gray
2	Base	1	Glass fiber filled polycarbonate	Light gray
3	Roof	1	PVC	Light gray
4	Gasket	1	Polyurethane	Black
5	Latch	1~3	Stainless steel	Unfinished
6	Screw	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

Code	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. / Dimensions

Product no.	W	D	H	Weight (g)	
				G	T
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
BCAR172211□	170	220	110.5	560	586
BCAR172711□	170	270	110.5	700	710
BCAR192810□	190	280	100.5	755	778
BCAR192814□	190	280	141	909	933
BCAR203013□	200	300	131.5	957	989
BCAR203015□	200	300	151.5	995	1,022
BCAR203018□	200	300	180.5	1,104	1,122
BCAR212110□	210	210	100	666	692
BCAR212113□	210	210	130	740	762
BCAR253515□	250	350	151	1,307	1,378
BCAR253518□	250	350	181.5	1,443	1,510
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	121	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	255	7,037	—
BCAR608018G	630	830	188	8,279	—
BCAR608028G	630	830	288	9,719	—

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

BCPR Product no. / Dimensions

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
BCPR172211S	170	220	110.5	677
BCPR172711S	170	270	110.5	803
BCPR192810S	190	280	100.5	889
BCPR192814S	190	280	141	1,060
BCPR203013S	200	300	131.5	1,091
BCPR203015S	200	300	151.5	1,165
BCPR203018S	200	300	180.5	1,296
BCPR212110S	210	210	100	777
BCPR212113S	210	210	130	862
BCPR253515S	250	350	151	1,537
BCPR253518S	250	350	181.5	1,722
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	121	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	255	8,420
BCPR608018S	630	830	188	10,040
BCPR608028S	630	830	288	11,770

■ Refer to page 247 ~ 250 for detailed dimensions.

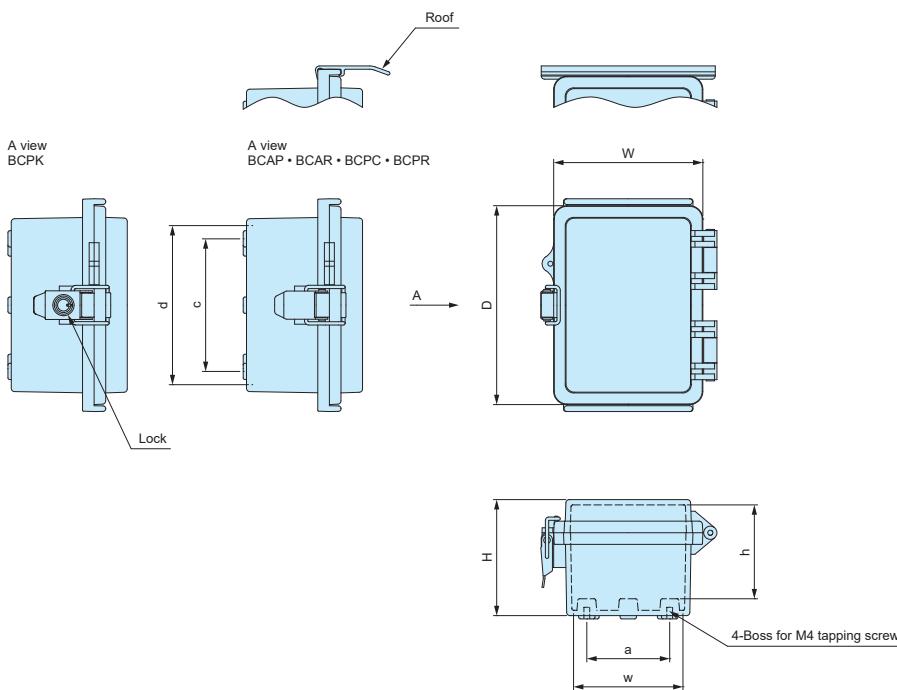
Accessories (Optional parts)

Mounting plate BMP series
See page 253 ~ 255Mounting bracket CK • BFL series
See page 256Pole mounting bracket SSK series
See page 257 ~ 258Cable gland
See cable gland pagesVentilation part
See page 259 ~ 262

BCAP • BCAR • BCPC • BCPK • BCPR dimensions

091207, 091208

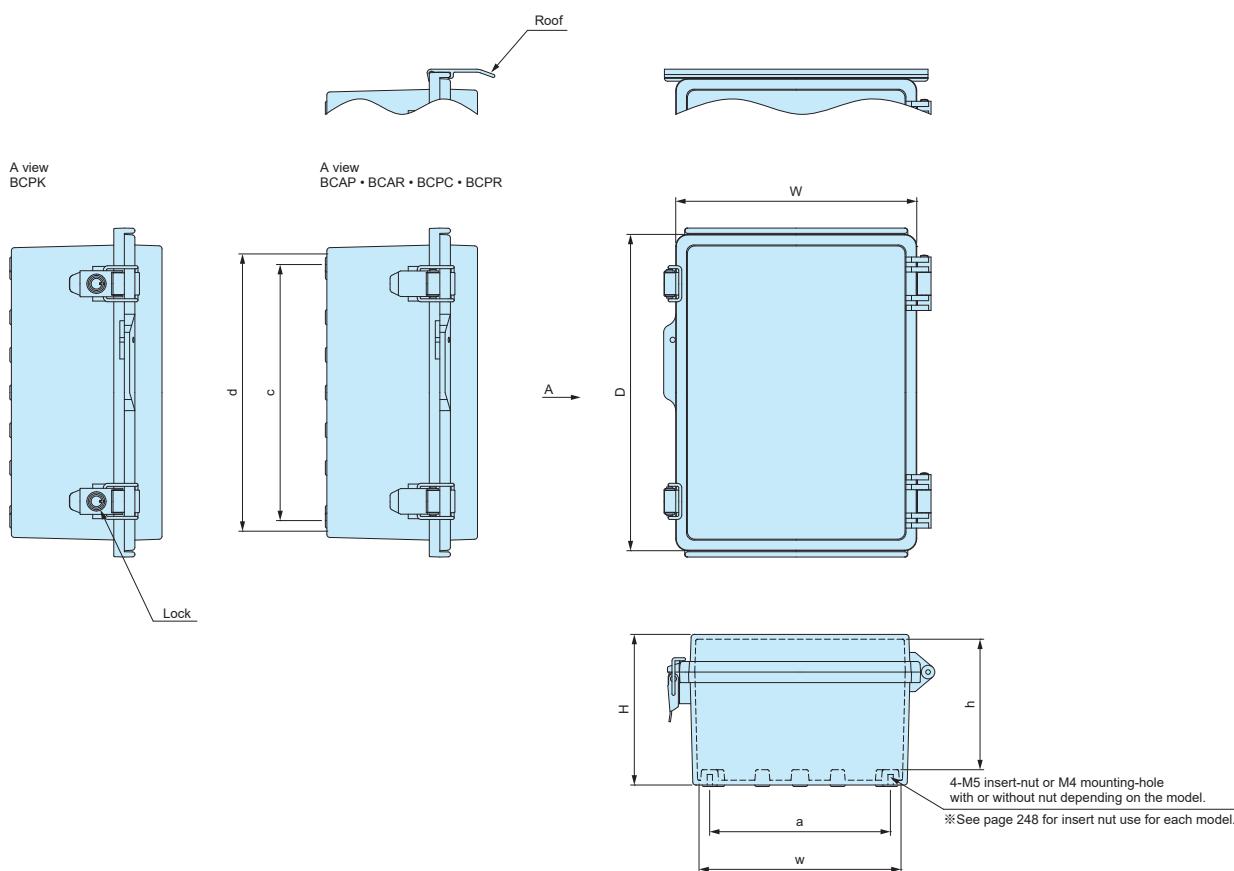
Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.



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

101507 ~ 405020

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





- Inner bosses vary according to box size.
Refer to DXF/DWG/PDF drawings for more details.

APPLICATION EXAMPLE



SURVEILLANCE VIDEO DATA CLOUD ROUTER

Product by LIVELOCK TECHNOLOGIES (Japan)

Product no.	W	D	H	Available range			Bottom hole pitch		Insert nut
				w	d	h	a	c	
BCAP • R, BCPC • K • R101507	100	150	70	76	126	56.5	60	110	without
BCAP • R, BCPC • K • R101508	100	150	85	75.5	125.5	71.5	60	110	without
BCAP • R, BCPC • K • R112107	110	210	75	85.8	185.8	61.5	70	170	without
BCAP • R, BCPC • K • R112110	110	210	100	84.9	184.9	86.5	70	170	without
BCAP • R, BCPC • K • R112607	110	260	75	85.8	235.8	61.5	70	220	without
BCAP • R, BCPC • K • R112610	110	260	100.5	85.1	234.9	87.2	70	220	without
BCAP • R, BCPC • K • R131508	135	155	85	110.5	130.5	71.5	95	115	without
BCAP • R, BCPC • K • R131808	135	185	85.5	110.4	160.4	72.2	95	145	without
BCAP • R, BCPC • K • R131810	135	185	100.5	110.4	160.4	87.1	95	145	without
BCAP, BCPC • K 151509	150	150	90	125.7	125.7	75.5	120	120	without
BCAP, BCPC • K 151512	150	150	120.5	124	124	106	117	117	without
BCAP • R, BCPC • K • R162110	160	210	100	134	184	86.6	120	170	without
BCAP • R, BCPC • K • R162113	160	210	130	134	184	116.5	120	170	without
BCAP • R, BCPC • K • R162610	160	260	100	135.1	235.1	86.6	120	220	without
BCAP • R, BCPC • K • R162613	160	260	130	134	234	116.6	120	220	without
BCAP • R, BCPC • K • R172211	170	220	110.5	144.9	194.9	96.1	132	182	without
BCAP • R, BCPC • K • R172711	170	270	110.5	144.9	244.9	96.1	132	232	without
BCAP • R, BCPC • K • R192810	190	280	100.5	165.3	255.3	84.1	148	238	with
BCAP • R, BCPC • K • R192814	190	280	141	164.2	254.2	124.6	148	238	with
BCAP • R, BCPC • K • R203013	200	300	131.5	173.5	273.5	115.1	152	252	with
BCAP • R, BCPC • K • R203015	200	300	151.5	173.5	273.5	135.1	152	252	with
BCAP • R, BCPC • K • R203018	200	300	180.5	172.4	272.3	164.1	152	252	with
BCAP • R, BCPC • K • R212110	210	210	100	185.1	185.1	86.6	170	170	without
BCAP • R, BCPC • K • R212113	210	210	130	184	184	116.6	170	170	without
BCAP • R, BCPC • K • R253515	250	350	151	222.5	322.5	135.3	206	306	with
BCAP • R, BCPC • K • R253518	250	350	181.5	222.5	322.5	165.8	206	306	with
BCAP • R, BCPC • K • R282813	280	280	130.5	254	254	113.6	238	238	with
BCAP • R, BCPC • K • R283813	280	380	130	254	354	113.6	238	338	with
BCAP • R, BCPC • K • R303015	300	300	151	273	273	134.3	256	256	with
BCAP • R, BCPC • K • R303018	300	300	181	272.5	272.5	164.3	256	256	with
BCAP • R, BCPC • K • R304012	300	400	121	274.1	374.6	104.6	252	352	with
BCAP • R, BCPC • K • R304015	300	400	150	273.5	373.5	133.6	252	352	with
BCAP • R, BCPC • K • R304018	300	400	181	272.5	372.5	164.6	252	352	with
BCAP • R, BCPC • K • R353515	350	350	150	323.6	323.6	133.6	302	302	with
BCAP • R, BCPC • K • R353518	350	350	181	322.5	322.5	164.6	302	302	with
BCAP • R, BCPC • K • R354512	350	450	120	316.7	416.7	103.5	302	402	with
BCAP • R, BCPC • K • R354516	350	450	160	308.7	414.7	142.6	302	402	with
BCAP • R, BCPC • K • R354520	350	450	201	306.9	412.8	183.6	302	402	with
BCAP, BCPC • K 405016	400	500	160	360.4	466.6	144	352	452	with
BCAP, BCPC • K 405020	400	500	201	359.4	465.5	184	352.5	452.5	with

BCAP • BCAR • BCPC • BCPK • BCPR dimensions

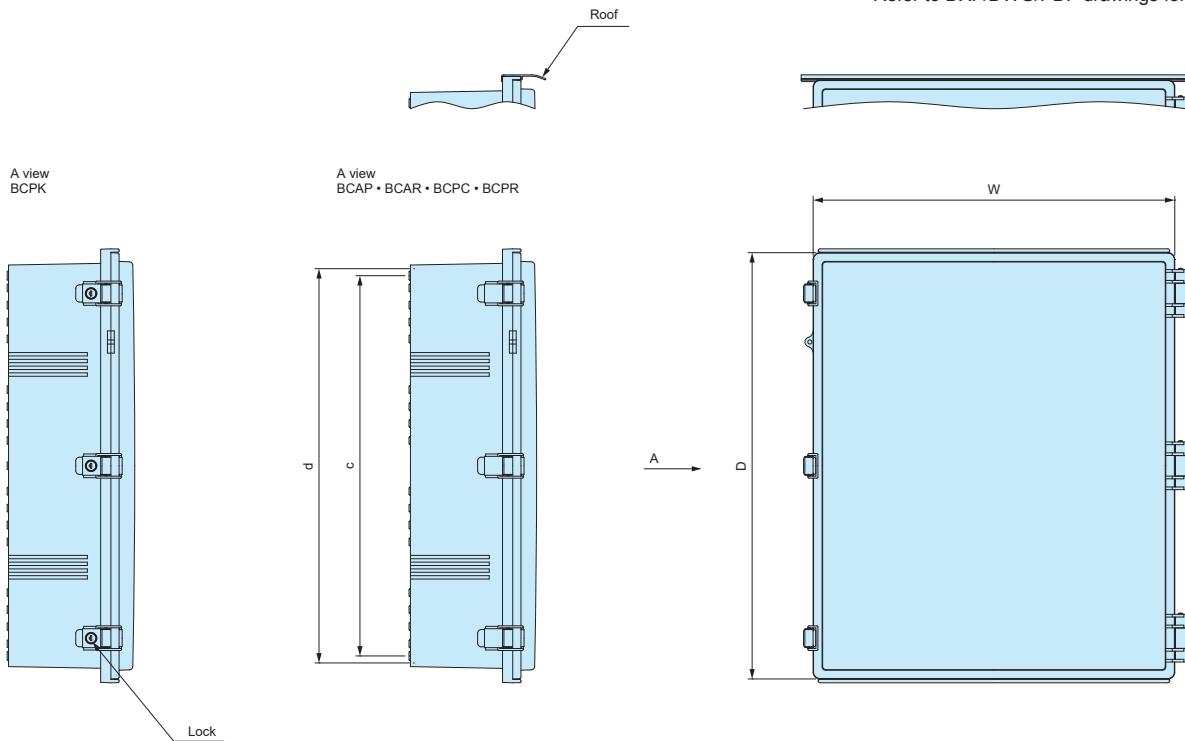
406018 ~ 507025

Not available for BCAR • BCPR 406018 and 406023 models.

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

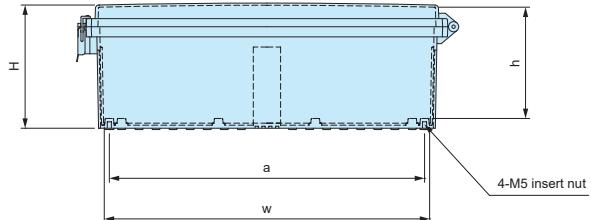


■ Inner bosses vary according to box size.
Refer to DXF/DWG/PDF drawings for more details.


Attention when locking the latch

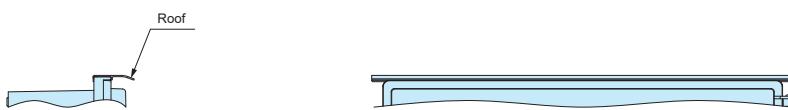
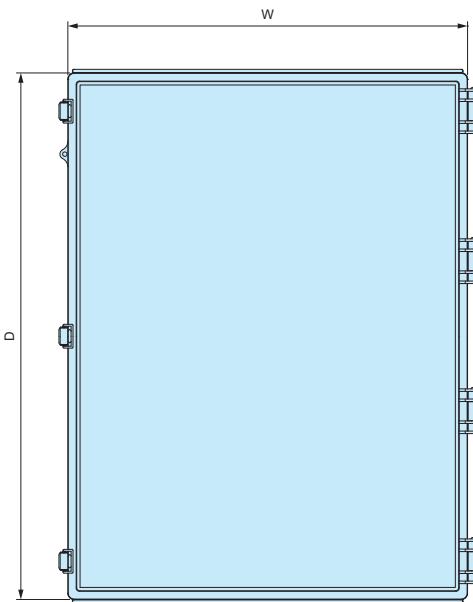
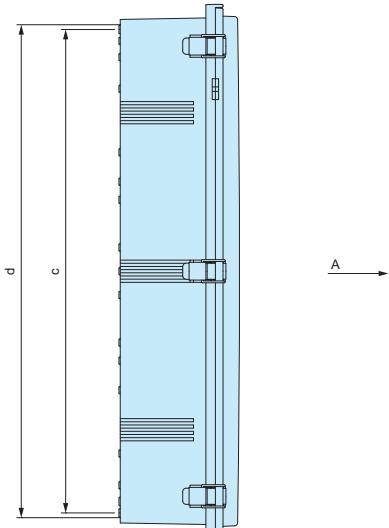
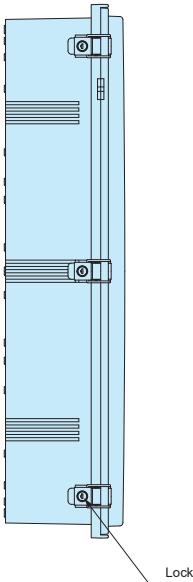
1. Close latches on both ends first.
2. Close center latch next.

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



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

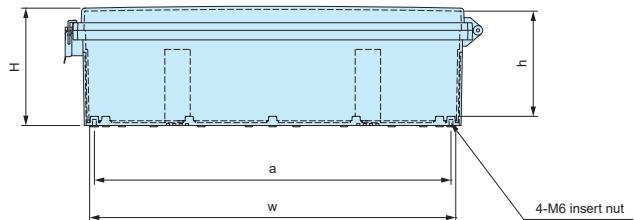
608018, 608028

A view
BCPKA view
BCAP • BCAR • BCPC • BCPR

Attention when locking the latch

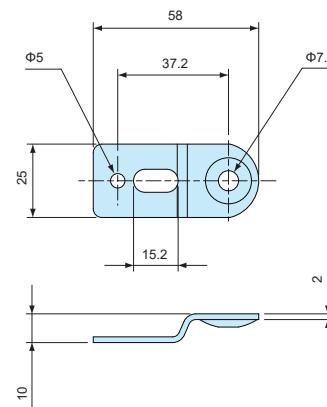
1. Close latches on both ends first.
2. Close center latch next.

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



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

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



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

NOTICE**BCAP • BCPC • BCPK • BCAR • BCPR Series**
Changes to Hinge Design

- Change : Hinge design.

Current (Old) Hinge Design**New Hinge Design**

- Affected series / models

BCAP Series	BCPC Series	BCPK Series		BCAR Series		BCPR Series	
BCAP112107G	BCAP112107T	BCPC112107S	BCPK112107S	BCPK112107T	BCAR112107G	BCAR112107T	BCPR112107S
BCAP112110G	BCAP112110T	BCPC112110S	BCPK112110S	BCPK112110T	BCAR112110G	BCAR112110T	BCPR112110S
BCAP112607G	BCAP112607T	BCPC112607S	BCPK112607S	BCPK112607T	BCAR112607G	BCAR112607T	BCPR112607S
BCAP112610G	BCAP112610T	BCPC112610S	BCPK112610S	BCPK112610T	BCAR112610G	BCAR112610T	BCPR112610S
BCAP406018G	BCAP406018T	BCPC406018S	BCPK406018S	BCPK406018T	BCAR203013G	BCAR203013T	BCPR203013S
BCAP406023G	BCAP406023T	BCPC406023S	BCPK406023S	BCPK406023T	BCAR203015G	BCAR203015T	BCPR203015S
BCAP203013G	BCAP203013T	BCPC203013S	BCPK203013S	BCPK203013T	BCAR203018G	BCAR203018T	BCPR203018S
BCAP203015G	BCAP203015T	BCPC203015S	BCPK203015S	BCPK203015T	BCAR304012G	BCAR304012T	BCPR304012S
BCAP203018G	BCAP203018T	BCPC203018S	BCPK203018S	BCPK203018T	BCAR304015G	BCAR304015T	BCPR304015S
BCAP304012G	BCAP304012T	BCPC304012S	BCPK304012S	BCPK304012T	BCAR304018G	BCAR304018T	BCPR304018S
BCAP304015G	BCAP304015T	BCPC304015S	BCPK304015S	BCPK304015T	BCAR354512G	BCAR354512T	BCPR354512S
BCAP304018G	BCAP304018T	BCPC304018S	BCPK304018S	BCPK304018T	BCAR354516G	BCAR354516T	BCPR354516S
BCAP354512G	BCAP354512T	BCPC354512S	BCPK354512S	BCPK354512T	BCAR354520G	BCAR354520T	BCPR354520S
BCAP354516G	BCAP354516T	BCPC354516S	BCPK354516S	BCPK354516T	BCAR507018G		BCPR507018S
BCAP354520G	BCAP354520T	BCPC354520S	BCPK354520S	BCPK354520T	BCAR507025G		BCPR507025S
BCAP507018G		BCPC507018S	BCPK507018S				
BCAP507025G		BCPC507025S	BCPK507025S				

- Effective date : Once present inventory has run out / been depleted.
- Note : No changes to item product number, color, finish, or pricing.

BRF SERIES

OUTDOOR ROOF



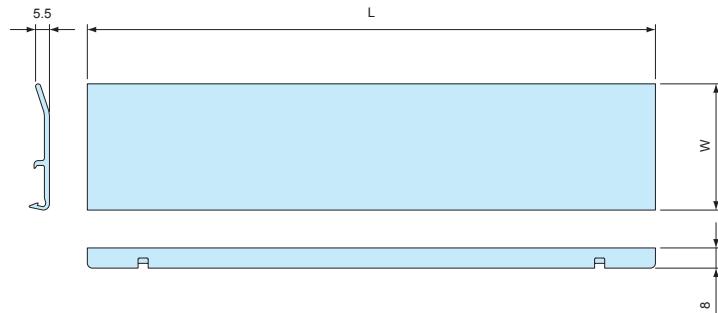
- Recommended to be used for outdoor environments for protection against rain etc.
- Snap-in easy installation.
- Available for BCAP and BCPC • BCPK series except 151509, 151512, 405016, 405020, 406018, and 406023 models.

Color Type

Color code	Material	Color / Finish	Suitable series
G	PVC	White gray / Unpainted	BCAP
S	PVC	Light gray / Painted	BCPC • BCPK

BRF dimensions

Roof for 091207 ~ 353518

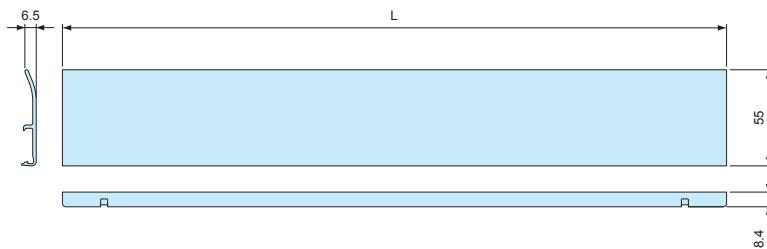


Product no. / Dimensions

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

Product no.	Suitable box	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 172211 172711	185	45
BRF-190□	BCAP • BCPC • BCPK 192810 192814	205	45
BRF-210□	BCAP • BCPC • BCPK 212110 212113	225	45
BRF-200□	BCAP • BCPC • BCPK 203013 203015 203018	225	50
BRF-250□	BCAP • BCPC • BCPK 253515 253518	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. / Dimensions

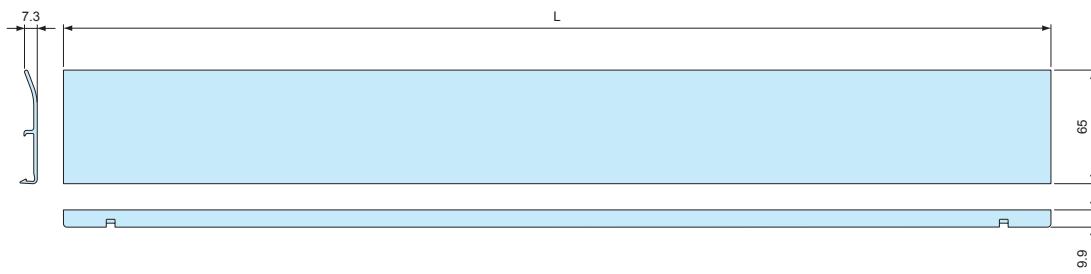
■ Please suffix color code at the end of the product number.

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

■ S color type is light gray painted.

Roof for 506018 ~ 608028

Accessories (Optional parts)



Product no. / Dimensions

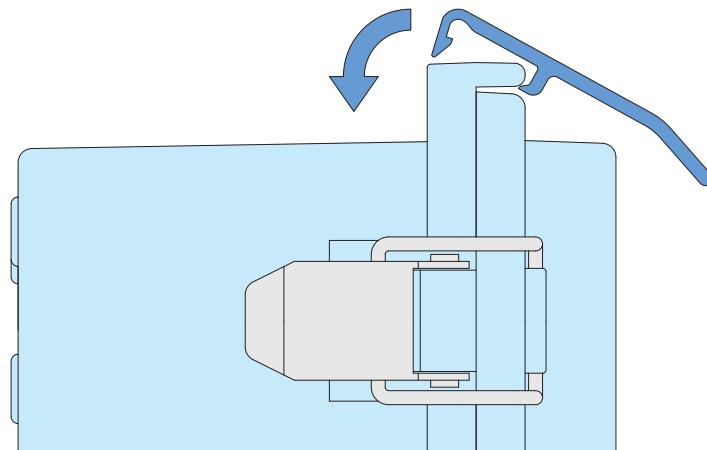
■ Please suffix color code at the end of the product number.

Product no.	Suitable box	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**

- Prevent 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 enclosure.

Product no. / Dimensions

Product no.	Material	Color	Sales unit
BCC-1	Silicone	Black	1 pc

Suitable Box

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

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

BMP-Z SERIES

STEEL MOUNTING PLATE

- Tough but easily customizable.
- Large sized (BMP5060Z, 5070Z and 6080Z) plates have a 90° bent edge.

- Customization services (machining, punch press or clinching nut insertion) are available. See website for more details.



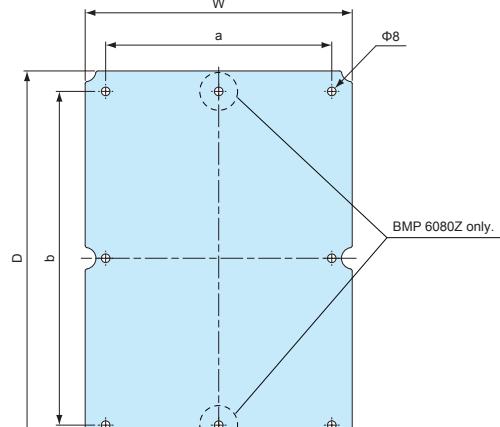
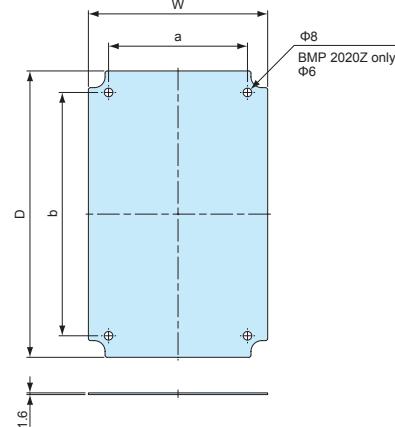
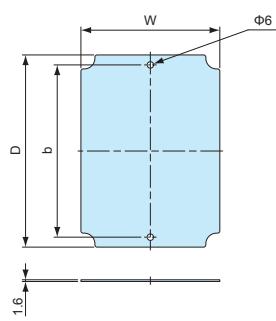
BMP0912Z ~ 1727Z



BMP1928Z ~ 4060Z



BMP5060Z ~ 6080Z



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

Components

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

Product no. / Dimensions

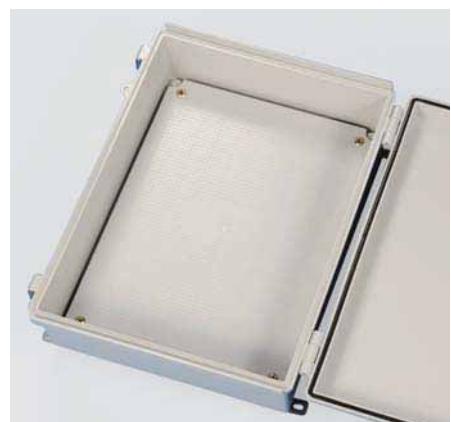
Product no.	W	D	a	b	Suitable box	Weight (g)
BMP0912Z	58	88	—	69	BCAP • R, BCPC • K • R 091207, 091208	53
BMP0813Z	68	118	—	99	BCAP • R, BCPC • K • R 101507, 101508	87
BMP1121Z	77	177	—	158	BCAP • R, BCPC • K • R 112107, 112110	159
BMP1126Z	77	227	—	208	BCAP • R, BCPC • K • R 112607, 112610	210
BMP1315Z	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 • R, BCPC • K • R 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 172211	308
BMP1727Z	137	237	—	210	BCAP • R, BCPC • K • R 172711	391
BMP1928Z	157	247	120	210	BCAP • R, BCPC • K • R 192810, 192814	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	519
BMP2535Z	215	315	180	270	BCAP • R, BCPC • K • R 253515, 253518	816
BMP2828Z	246	246	210	210	BCAP • R, BCPC • K • R 282813	727.5
BMP2838Z	246	346	210	310	BCAP • R, BCPC • K • R 283813	1,018
BMP3030Z	264	264	219	219	BCAP • R, BCPC • K • R 303015, 303018	826.5
BMP3040Z	265	365	228	325	BCAP • R, BCPC • K • R 304012, 304015, 304018	1,154
BMP3535Z	315	315	270	270	BCAP • R, BCPC • K • R 353515, 353518	1,196.5
BMP3545Z	301	401	274	365	BCAP • R, BCPC • K • R 354512, 354516, 354520	1,443
BMP4050Z	354	454	328	428	BCAP • R, BCPC • K • R 405016, 405020	1,998
BMP4060Z	354	551	328	525	BCAP • R, BCPC • K • R 406018, 406023	2,328
BMP5060Z	474	574	426	526	BCAP • R, BCPC • K • R 506018, 506025	3,286
BMP5070Z	472	672	426	626	BCAP • R, BCPC • K • R 507018, 507025	3,864
BMP6080Z	565	765	526	726	BCAP • R, BCPC • K • R 608018, 608028	5,288.5

■ K = BCPK series / R = BCAR • BCPR series

BMP-P SERIES

PLASTIC MOUNTING PLATE

- Lightweight ABS plastic mounting plate.
- Flat plate: BMP0811P ~ BMP1515P
Ribbed plate: BMP1520P ~ BMP4050P
- DXF/DWG/PDF drawings available on our website.

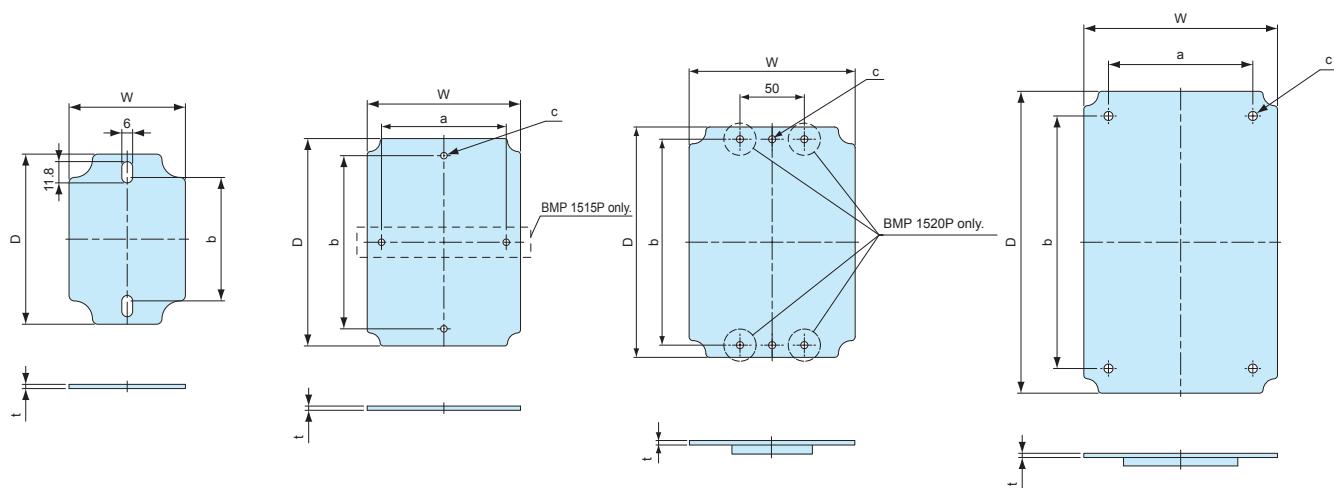


BMP0811P (Flat)

BMP0813P, 1515P (Flat)

BMP1520P, 1525P (Ribbed)

BMP1928P ~ 4050P (Ribbed)



Components

Part name	Material	Color
Mounting plate	ABS	White gray

Product no. / Dimensions

Product no.	W	D	a	b	t	c (Φ)	Suitable box	Weight (g)
BMP0811P	64.5	94.3	—	68.4	3.5	—	BCAP • R, BCPC • K • R 091207, 091208	21
BMP0813P	64.5	114.5	—	99	3	Φ6	BCAP • R, BCPC • K • R 101507, 101508	24
BMP1121P	76.5	176	—	158	3	Φ6	BCAP • R, BCPC • K • R 112107, 112110	40
BMP1126P	76.5	226	—	208	3	Φ6	BCAP • R, BCPC • K • R 112607, 112610	53
BMP1315P	101.5	121.5	—	110	3.5	Φ5.5	BCAP • R, BCPC • K • R 131508	36
BMP1217P	109.5	160	—	140	4	Φ6	BCAP • R, BCPC • K • R 131808, 131810	62
BMP1515P	123	123	110	110	3.5	Φ6	BCAP • BCPC • K 151509, 151512	52
BMP1520P	129	179	—	160	3.5	Φ5.5	BCAP • R, BCPC • K • R 162110, 162113, 172211	92
BMP1525P	129	228.5	—	210	3.5	Φ6	BCAP • R, BCPC • K • R 162610, 162613, 172711	112
BMP1928P	158.5	248	120	210	3.5	Φ8	BCAP • R, BCPC • K • R 192810, 192814	162
BMP2020P	178.5	178.5	120	150	3.5	Φ5.5	BCAP • R, BCPC • K • R 212110, 212113	125
BMP2030P	166.5	266	128	225.5	4	Φ8	BCAP • R, BCPC • K • R 203013, 203015, 203018	188
BMP2535P	215.5	315	180	268.5	4	Φ8	BCAP • R, BCPC • K • R 253515, 253518	292
BMP2828P	248.5	248.5	210	210	4	Φ8	BCAP • R, BCPC • K • R 282813	237
BMP2838P	248	347.5	209	309.5	4	Φ8	BCAP • R, BCPC • K • R 283813	368
BMP3030P	262.5	262.5	219	219	4	Φ7.5	BCAP • R, BCPC • K • R 303015, 303018	281
BMP3040P	264.5	364	227	323	4	Φ8	BCAP • R, BCPC • K • R 304012, 304015, 304018	437
BMP3535P	313.5	313.5	269.5	269.5	4	Φ8	BCAP • R, BCPC • K • R 353515, 353518	424.5
BMP3545P	305	405.5	273	364	4	Φ8	BCAP • R, BCPC • K • R 354512, 354516, 354520	539
BMP4050P	357	457	328	428	4	Φ8.5	BCAP • BCPC • K 405016, 405020	725.5

■ K = BCPK series / R = BCAR • BCPR series



TAKACHI ELECTRONICS ENCLOSURE CO., LTD.

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Tel. +81-48-222-5409 / Fax. +81-48-222-7652

November 11, 2019

Notice

BMP-P series Plastic Mounting Plate Changes to Underside (bottom) Shape

■ Affected models

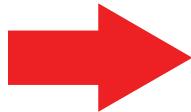
Product Number	Status
BMP0811P	Pending (est. 2nd Quarter 2020)
BMP0818P	Pending (est. 2nd Quarter 2020)
BMP1126P	Pending (est. 3rd Quarter 2020)
BMP1212P	Pending (est. 2nd Quarter 2020)
BMP1217P	Changed

■ Changes : Underside shape/construction

Current shape



New shape



- Purpose : For the reinforcement and strengthening of small-sized plastic mounting plate(s).
- Effective date : Once present stock has run out.
- Note : There will be no changes to product number, color, or pricing.

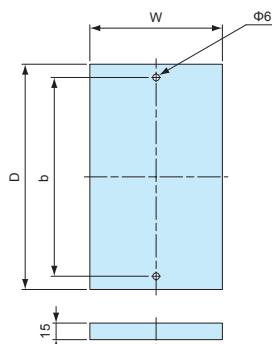
BMP-W SERIES

WOODEN MOUNTING PLATE

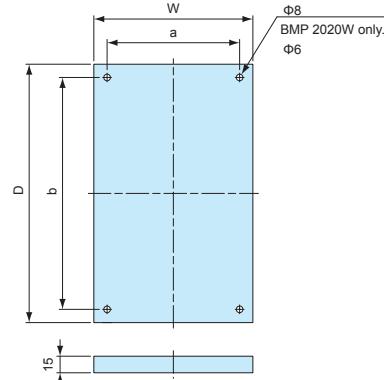
- Easy installation with tapping screws.
- Easily customizable hard wooden plate.
- Plate comes with scales printed on for easy references.
- DXF/DWG/PDF drawings available on our website.



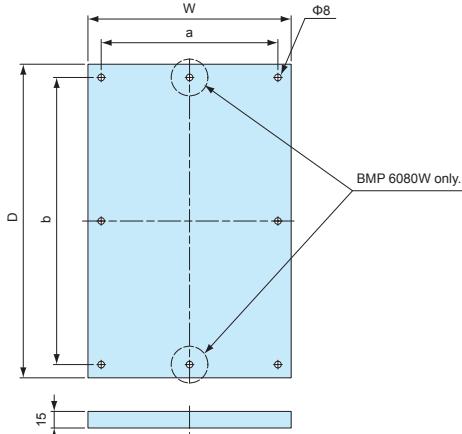
BMP0912W ~ 1727W



BMP1928W ~ 4060W



BMP5060W ~ 6080W



Components

Part name	Pcs	Material	Color / Finish
Mounting plate	1	Wood board t=15	Scaled sheet
Screw	2 ~ 8	Steel	Trivalent chromate

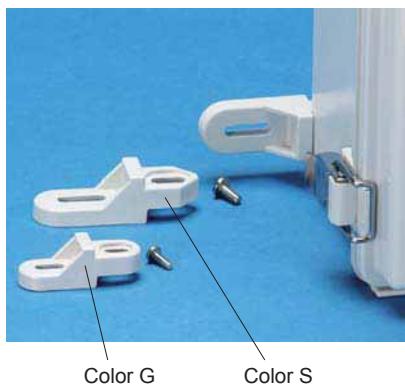
Product no. / Dimensions

Product no.	W	D	a	b	Suitable box	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 172211	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	456	556	426	526	BCAP • R, BCPC • K • R 506018, 506025	M5-20 × 6 pcs	2,650
BMP5070W	456	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	M5 / M6-20 × 8 pcs	4,434

■ K = BCPK series / R = BCAR • BCPR series

BFL SERIES

PLASTIC MOUNTING BRACKET

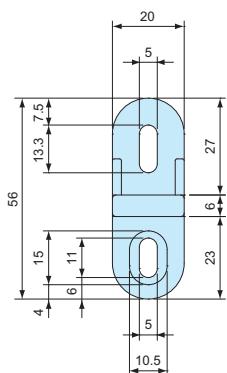


- 2 different colored type to match box colors.
- Tough and strong glass fiber filled polycarbonate.

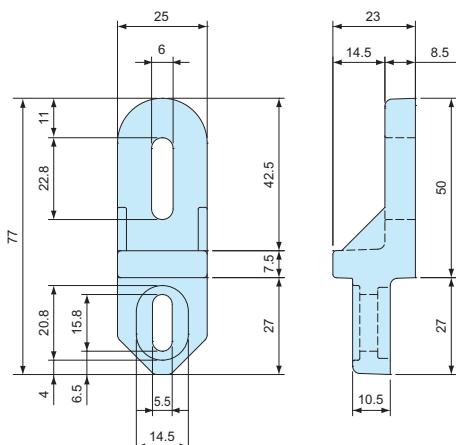
Color Type

G	White gray	BCAP • BCAR
S	Light gray	BCPC • BCPK • BCPR

BFL-1



BFL-2 / BFL-2-21



Product no. / Dimensions

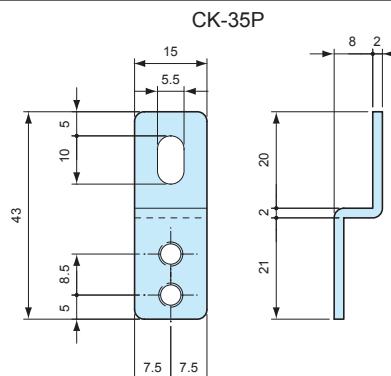
Product no.	Suitable box	Screw
BFL-1□	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1621, 1626, 1722, 1727, 212113	M4-12
BFL-2□	BCAP • R, BCPC • K • R 1928, 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060, 5060	M5-12
BFL-2-21□	BCAP • R, BCPC • K • R 212110	M4-12

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

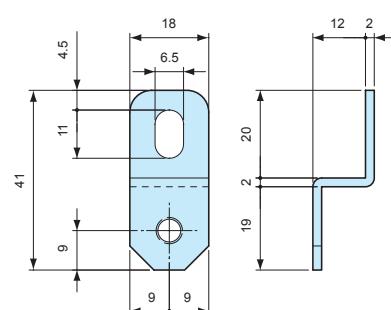
※Not suitable for BCAP1515 model. Use CK-35P (Stainless steel) instead.

CK SERIES

STAINLESS STEEL MOUNTING BRACKET



CK-26P



Components

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

Product no. / Dimensions

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

MT SERIES

PCB MOUNTING SCREW

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

Product no. / Dimensions

Product no.	Material	Finish	Pack of
MT4-8T	Steel M4	Trivalent chromate	20
MT5-8T	Steel M5	Trivalent chromate	20

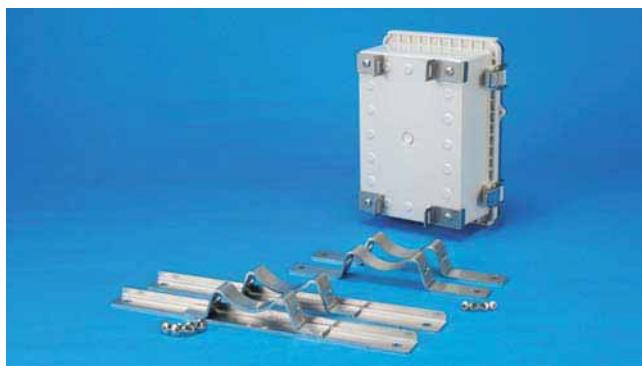
Suitable Box

MT4-8T	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1515, 1621, 1626, 1722, 1727, 1928, 2121	7kgf•cm (0.7N•m)
MT5-8T	BCAP • R, BCPC • K • R 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060, 5060, 5070, 6080	14kgf•cm (1.4N•m)



SSK SERIES

POLE MOUNTING BRACKET



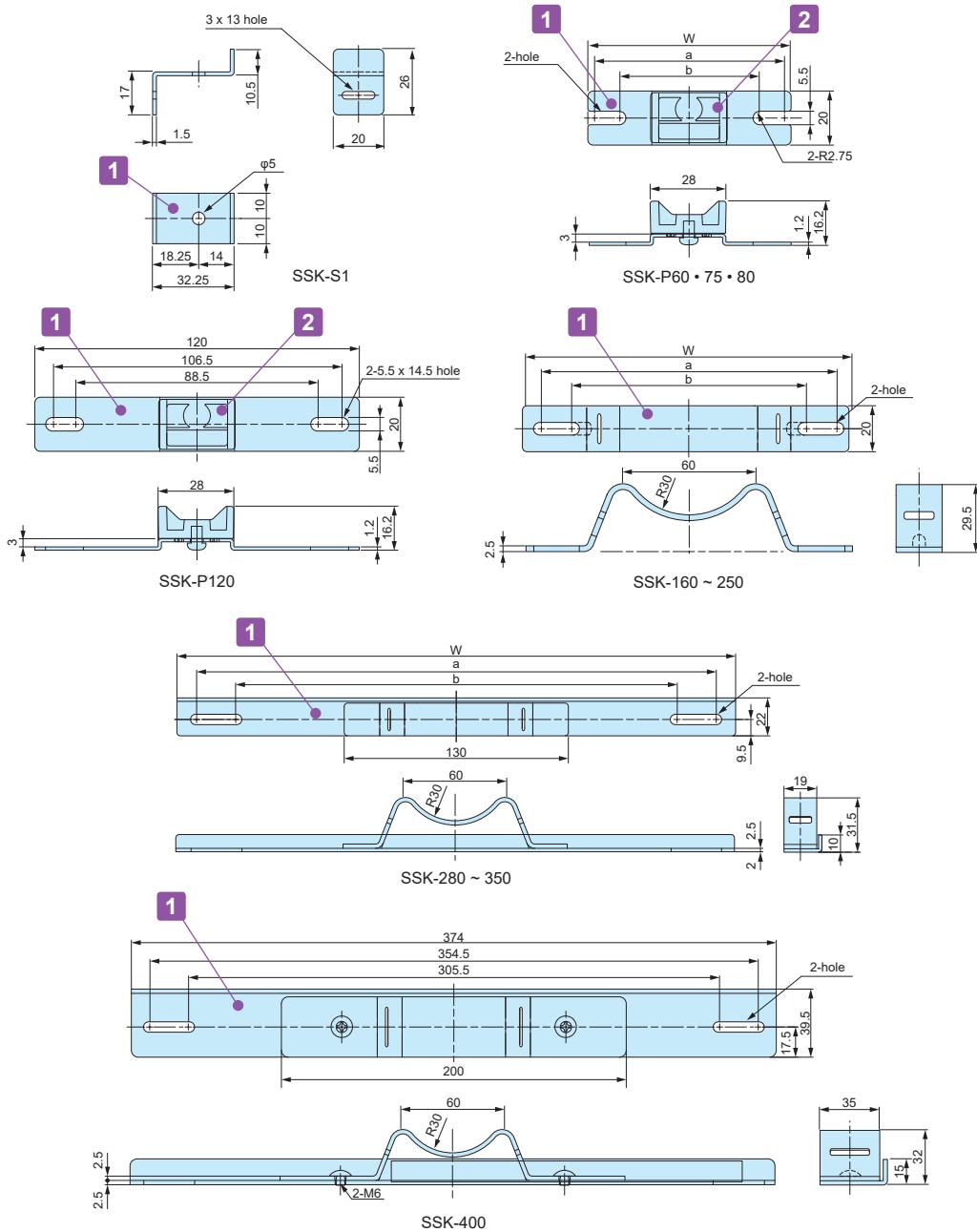
- Stainless steel pole mounting bracket for BCAP • BCAR and BCPC • BCPK • BCPR series.
- No hole milling is required for maintaining the IP rating of the enclosure.
- Use PKB mounting belt to install onto a pole (See page 258 for PKB series).
- DXF/DWG/PDF drawings available on our website.

APPLICATION EXAMPLE



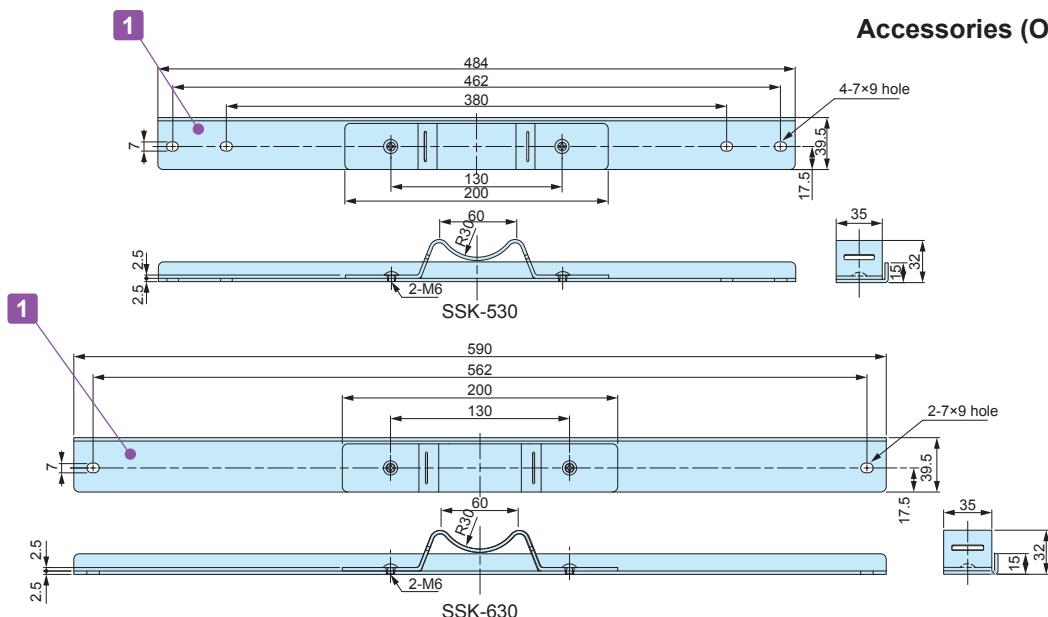
WEATHER STATION DATA LOGGER
Product by Sakaki Corporation (Japan)

SSK dimensions



WATER LEVEL DETECTOR
Product by Aspect System (Japan)

Accessories (Optional parts)



Components

No.	Part name	Pcs	Material	Color / Finish
1	Bracket	2 / 4	Stainless Steel SUS304	Barrel finish
2	Plastic bracket (SSK-P type only)	2	ASA UL94HB	White gray (RAL7035)
-	Screw	4	Stainless Steel SUS304	Unfinished

Product no. / Dimensions

Product no.	W	a	b	c	Box size	Belt to use with	Pack of
SSK-S1	32.25	18.25	14	-	0912, 1015, 1121, 1126, 1315, 1318, 1621, 1626, 1722, 1727, 2121	PKB-10P, PKB-10S	4
SSK-P60	60	54.5	46.5	5.5x9	0912	PKB-10P, PKB-10S	2
SSK-P75	75	69.5	53.5	5.5x12.5	1015	PKB-10P, PKB-10S	2
SSK-P80	80	74.5	64.5	5.5x10.5	1121, 1126	PKB-10P, PKB-10S	2
SSK-P120	120	106.5	88.5	5.5x14.5	1315, 1318	PKB-10P, PKB-10S	2
SSK-160	142	129.5	101	-	1515, 1621, 1626	PKB-10P, PKB-10S	2
SSK-170	152	142.3	101	-	1722, 1727	PKB-10P, PKB-10S	2
SSK-200	174	161.5	112.5	-	1928, 2030	PKB-10P, PKB-10S	2
SSK-210	192	180.5	131.5	-	2121	PKB-10P, PKB-10S	2
SSK-250	230	215.5	166.5	-	2535	PKB-10P, PKB-10S	2
SSK-280	260	244.5	195.5	-	2828, 2838	PKB-10P, PKB-10S	2
SSK-300	280	264.5	215.5	-	3030, 3040	PKB-10P, PKB-10S	2
SSK-350	324	302.5	253.5	-	3535, 3545	PKB-10P, PKB-10S	2
SSK-400	374	354.5	305.5	-	4050, 4060	PKB-20S	2
SSK-530	484	462	380	7x9	5060, 5070	PKB-20S	2
SSK-630	590	562	-	7x9	6080	PKB-20S	2

PKB SERIES

POLE MOUNTING BELT

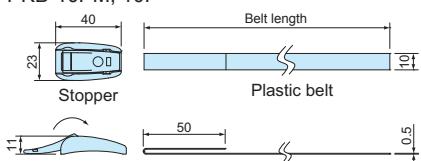


PKB-10PM, 10P

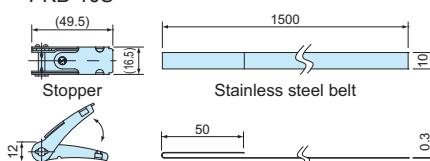


PKB-10S, 20S

PKB-10PM, 10P



PKB-10S



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	0.8kN	14	2
PKB-10P	23	40	11	10	0.5	PET	1,500mm	1.3kN	31.8	2
PKB-10S	(16.5)	(49.5)	12	10	0.3	Stainless steel	1,500mm	1.4kN	101.6	2
PKB-20S	(27.4)	(49.5)	12	20	0.3	Stainless steel	1,500mm	2.9kN	182.2	2

■ 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.

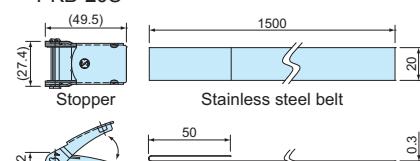
■ Designed for one time use only (not reusable).

■ Strong stainless steel clamping type and easy installation plastic type are available.

■ Use SSK mounting bracket for installation onto a pole.

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

PKB-20S



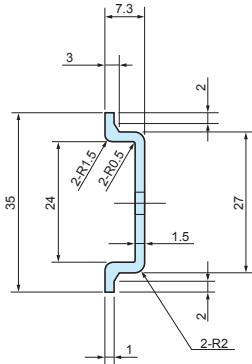
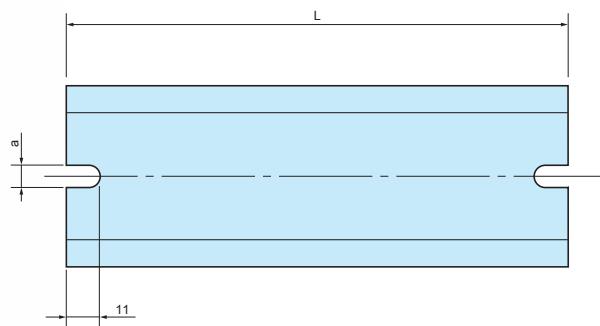
FDR SERIES

DIN-RAIL

NEW SIZE



- 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
BCAP	112610	223
BCPC	131508	120
BCPK	131808	150
BCAR	131810	150
BCPR	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
BDN	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
BCAS	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
SPCM	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)

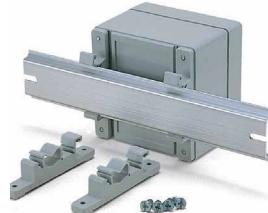

DIN-Rail stopper bracket TKR series
See page DIN-ACC-2



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

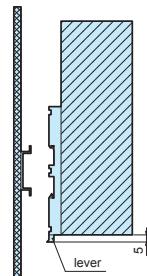
DRA SERIES

DIN-RAIL MOUNTING BASE



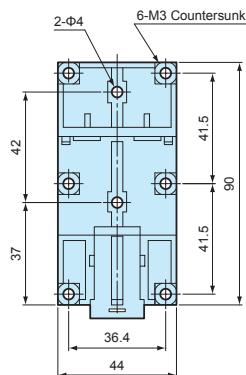
■ NOTE

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

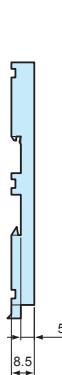


- For installation of enclosures, PCB and other parts onto a DIN rail.
- Simple installation and removal via the pull lever.

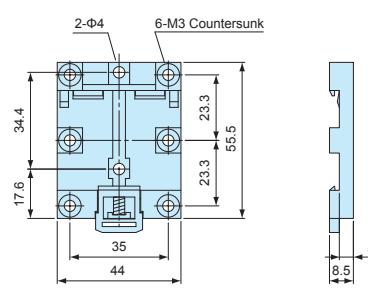
DRA-1



DRA-2



DRA-3

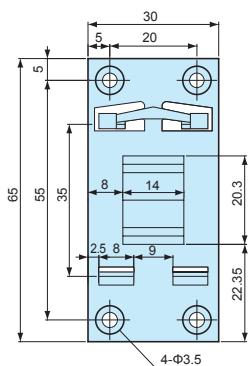


Product no. / Dimensions

Product no.	Material (body)	Material (lever)	Color	Weight (g)	Max load (kg)
DRA-1	PPE : SB UL94V-1	Nylon 66 UL94V-2	Black : Milky white	16.4	5
DRA-2	PPE : SB UL94V-1	Nylon 66 UL94V-2	Black : Milky white	14.5	5
DRA-3	PPE : SB UL94V-1	Nylon 66 UL94V-2	Black : Milky white	10.4	5

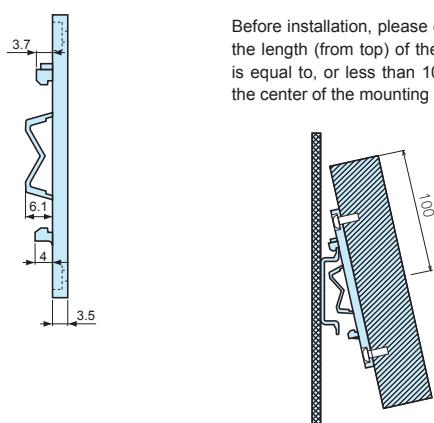
DRT SERIES

DIN-RAIL MOUNTING BASE



■ 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.



- 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.

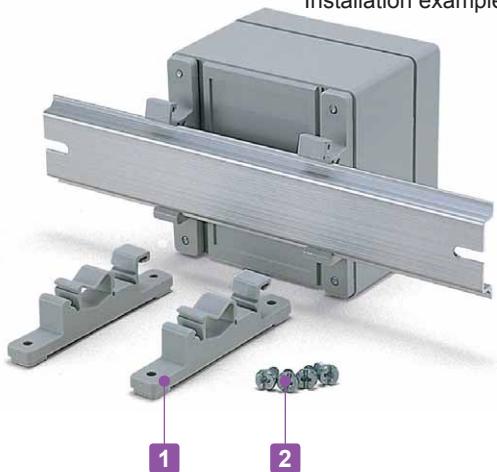
Product no. / Dimensions

Product no.	Material	Color	Weight (g)	Max load (kg)
DRT-1	PBT UL94V-0	Light gray	7.3	1

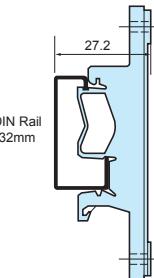
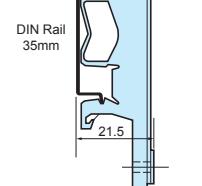
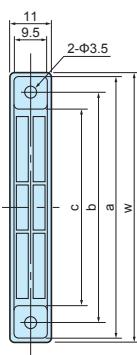
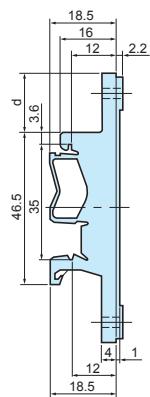
CKD SERIES

DIN-RAIL MOUNTING FEET

Installation example



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



Technical Data

Max load : 3kg

Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting feet	2	Polyamide	White gray
2	Screw (special type 4.2 x 9.5)	4	Screw	Unichrome plated

Product no. / Dimensions

Product no.	W	a	b	c	d	Pack of
CKD- 80	77	75	66	56	17	2
CKD-120	117	115	106	96	37	2
CKD-160	157	155	147	136	57	2

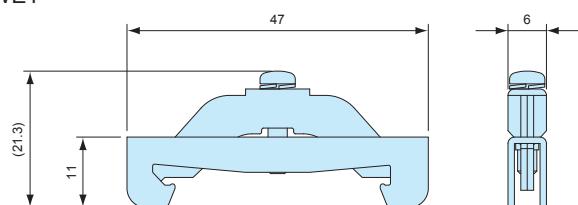
TKR SERIES

DIN-RAIL TERMINAL BLOCKS END STOPPER

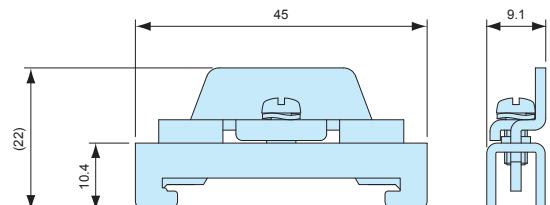
■ DXF/DWG/PDF drawings available on our website.



TKR-TWE1



TKR-JTXE3



■ Stopper bracket for use with 35mm DIN-rail to keep an attachment at a fixed location.

■ TKR-TWE1 is used with small DIN rail attachment parts. For larger/higher attachment parts, TKR-JTXE3 is recommended for providing additional support.

Product no. / Feature

Product no.	Material	Color / Finish	Pack of
TKR-TWE1	Steel sheet	Trivalent chromate	2
TKR-JTXE3	Steel sheet	Trivalent chromate	2

PMF-6B

SMALL PROTECTIVE VENT



IP68



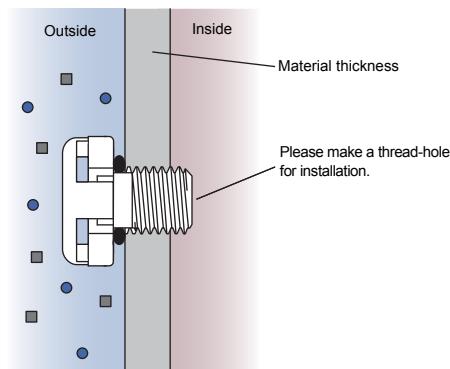
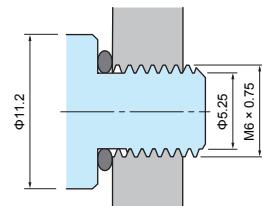
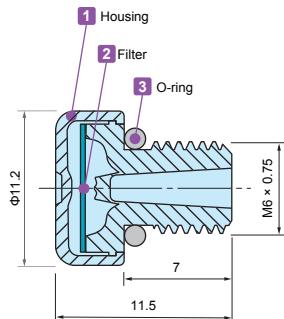
Application example

- Small and screw-in protective vent suitable for compact, and hand-held type devices.
- IP68 protection class (water depth 2 meters / 60 mins) and -40°C ~ +150°C operating temperature range allows it to be used in various environments.
- Suitable for enclosures with capacities of 2.0 litres or under.
- For outdoor use, installation on the side of the enclosure unit is recommended.

PMF-6B dimensions

Hole milling drawings

Installation drawings



Technical Data

Airflow	300ml / min (dp = 7 kPa)
Recommended Torque	0.2 ~ 0.4 N · m
Certifications	IEC60529 (Protection class test) : IP66 • IP67 • IP68 IEC60068-2-1, 2, 14 (Heat resistance test) : -40°C ~ +150°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1000 hours IEC60068-2-64 (Vibration test) UL94V-0 (Flame-resistant) • UL746C f1

Product no. / Dimensions

Product no.	Material			G	
● Black	1 Housing	2 Filter	3 O-ring	Thread size	Mount hole
PMF-6B	PA6 (Body) • PA66 (Cap)	PTFE	Silicone	M6 x 0.75	—

PMF SERIES

PROTECTIVE VENT

NEW SIZE

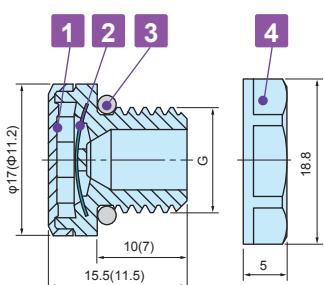


Application example

- Protective vents prevent the ingress of a variety of contaminants, such as water, dust and other particles while allowing water vapor molecules to diffuse through the microporous membrane.
- Equalize pressure and reduce condensation by allowing airflow into and out of sealed enclosures.
- With an IP68 protection class (water depth 2 meters / 60 mins) and -40°C ~ +125°C operating temperature range, it can be used in harsh environmental conditions.
- PMF-6B works up to 2 liters capacity enclosures. Whereas, PMF-12 models work for up to 5 liters and PMF-12HS models work for up to 50 liters.
- For outdoor use, more efficient to install on the side(s).
- Recommended to use for industrial, electric, electronics purpose only.

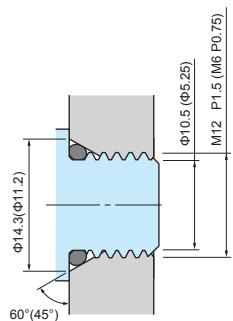
PMF dimensions

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



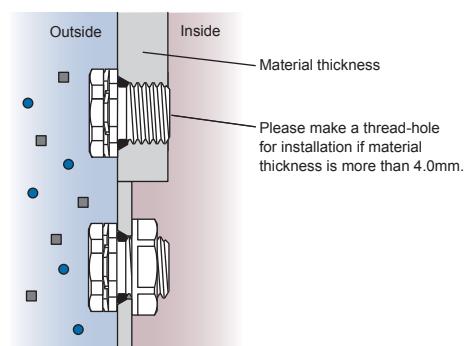
() values are for PMF-6B.
Lock nut is not available for PMF-6B.

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,
and Φ12.2mm through-hole is sufficient.

Technical Data

Product no.	PMF-6B	PMF-12	PMF-12HA
Airflow	300ml / min (dp = 7 kPa)	450ml / min (dp = 7 kPa)	4000ml / min (dp = 7 kPa)
Recommended Torque	0.2 ~ 0.4 N • m	0.6 ~ 0.8 N • m	0.6 ~ 0.8 N • m
Certifications	IEC60529 (Protection class test): IP66 • IP67 • IP68 • IP69K (Not for PMF-6B) IEC60068-2-1, 2, 14 (Heat resistance test): -40°C ~ +125°C (~+150°C for PMF-6B) IEC60068-2-78 (Humidity test): 85°C • 85% humidity • 1000 hours IEC60068-2-64 (Vibration test) (PMF-6B only) UL94V-0 (Flame-resistant) • UL746C f1		

Product no. / Dimensions

Product no.		Material				G		Nut SW
● Light gray	● Black	1 Housing	2 Filter	3 O-ring	4 Lock nut	Thread size	Mount hole	
—	NEW PMF-6B	PA6 (Body)	PTFE	Silicone	n/a	M6 x 0.75	—	—
		PA66 (Cap)						
PMF-12S	PMF-12B	PA6	PTFE	Silicone	PA6 (UL94V-2)	M12 x 1.5	Φ12.2	17
PMF-12HAS	PMF-12HAB	PA6	PTFE	Silicone	PA6 (UL94V-2)	M12 x 1.5	Φ12.2	17

PMF-32 SERIES

LARGE PROTECTIVE VENT

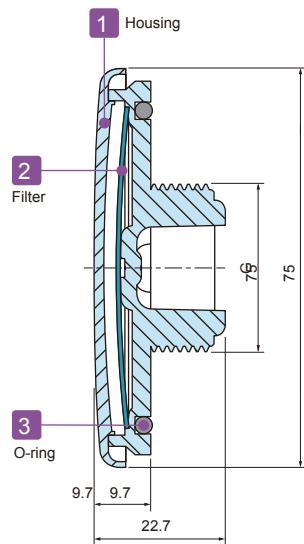


IP68
IP69K

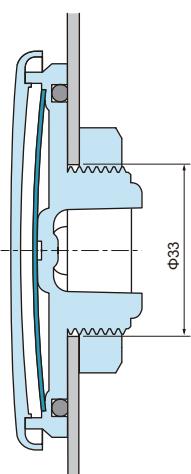
Application example

- Maintaining high airflow for large enclosures in an outdoor environment.
- Equalize pressure and reduce condensation by allowing airflow into and out of sealed enclosures.
- Simple and flat design allows it to be used on a wide variety of enclosure types.
- IP68 protection class rated 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.
- For superior performance, installation on the side of the enclosure is recommended.

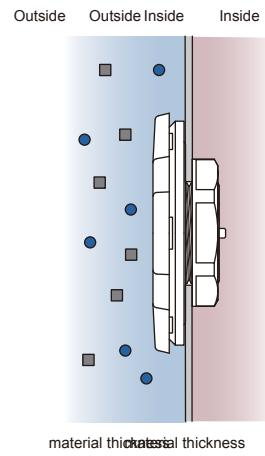
PMF-32 Dimensions



Hole milling drawings



Installation drawings



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

Technical Data

Airflow	16 l / min (dp = 12 mbar)
Recommended torque	5 N · m
Certifications (without nut)	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 • 1000 hours IEC62108.10.8 • 9 (Solar industry test): Freezing - high temperature test • Hail impact test UL94V-0 (Flame-resistant) • UL746C

Product no. / Dimensions

Product no.	Material				G		Nut SW
	1 Housing	2 Filter	3 O-ring	4 Lock nut	Thread size	Mount hole	
PMF-32S	PC	PTFE	Silicone	PA6	M32×1.5	Φ33	41.5



Technical Data

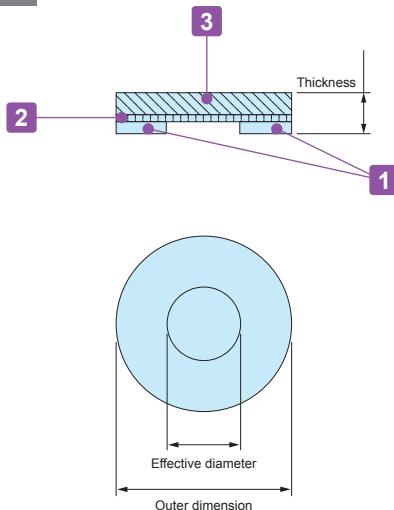
Protection class : Dustproof IP6X
Waterproof IPX4, IPX7
Airflow: 3,300ml/min/cm² (at 7Kpa)
Operating temperature: -40°C ~ +100°C

- Improved airflow of 3,300ml/min/cm² as compared to previous VSC series.
- Prevents ingress of a variety of contaminants, such as water, dust and other particles.
- Allows water vapor molecules to diffuse through the microporous membrane.
- Recommended to be adhered onto flat plastic or metallic surfaces.

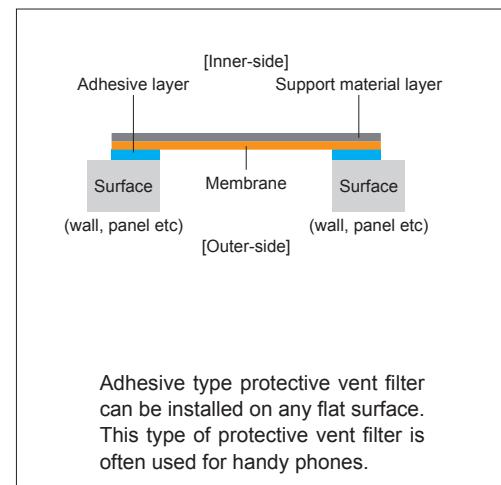
NOTE

- Surface must be wiped dry before adhering.
- An initial period of a few hours is required for the adhesive to properly bond to the surface.
- Please do not adhere onto the top-side of enclosures. Rain water etc. will collect on the filter, which will weaken the adhesive seal and prevent proper ventilation.

Drawing



Installation drawing



Adhesive type protective vent filter can be installed on any flat surface. This type of protective vent filter is often used for handy phones.

Components

No.	Part name	Material	Color
1	Adhesive	Acrylic adhesive	Transparent
2	Filter	ePTFE (Oil-repellent type)	White
3	Support material	Polyester fabric	White

Product no. / Dimensions

Product no.	Outer dimension (Φ · mm)	Filter effective diameter (Φ · mm)	Thickness (mm)	Sales unit
VE80308	7.6	3.3	0.26	8 pcs (per pack)
VE80814	14.0	8.0	0.26	4 pcs (per pack)
VE81221	21.5	12.5	0.26	4 pcs (per pack)
VE80308-S	7.6	3.3	0.26	96 pcs (per sheet)
VE80814-S	14.0	8.0	0.26	56 pcs (per sheet)
VE81221-S	21.5	12.5	0.26	20 pcs (per sheet)

VSC SERIES

ADHESIVE PROTECTIVE VENT FILTER



Technical Data

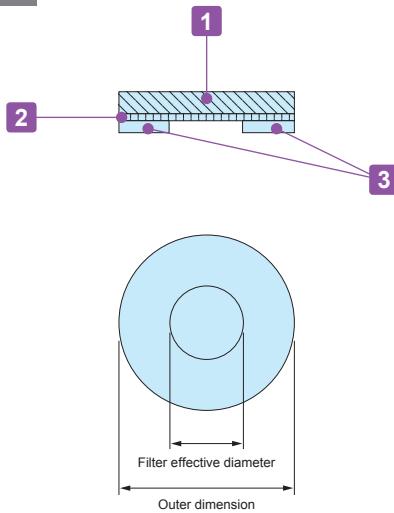
Water Entry Pressure (WEP): $\geq 20.0\text{kPa}$
 Airflow: $450\text{cc}/\text{cm}^2 \cdot \text{min}$ at 1.29kPa

- Prevents ingress of a variety of contaminants, such as water, dust and other particles.
- Allows water vapor molecules to diffuse through the microporous membrane.
- Recommended to be adhered onto flat plastic or metallic surfaces.

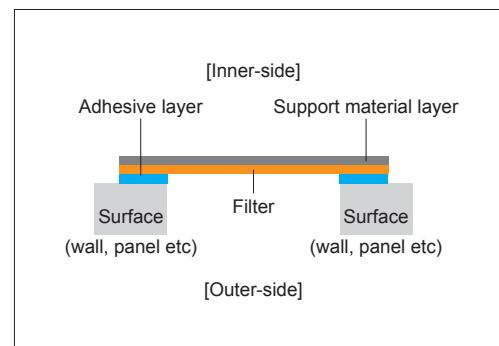
NOTE

- Surface must be wiped dry before adhering.
- An initial period of a few hours is required for the adhesive to properly bond to the surface.
- Please do not adhere onto the top-side of enclosures. Rain water etc will collect on the filter, which will weaken the adhesive seal and prevent ventilation.

Drawing



Installation drawing



Components

No.	Part name	Material	Color
1	Adhesive	Acrylic adhesive	Transparent
2	Filter	PTFE	White
3	Support material	Polyester fabric	White

Product no. / Dimensions

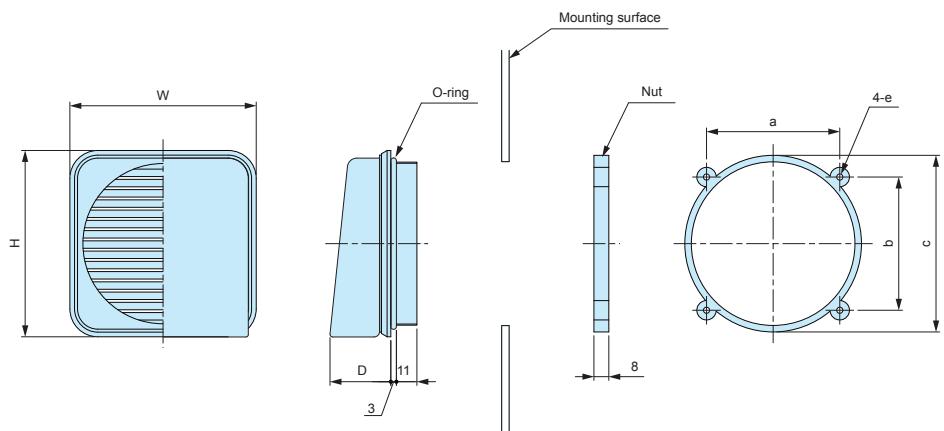
Product no.	Outer dimension (Φ)	Filter effective diameter (Φ)	Thickness	Sales unit
VSC075	7.5	4.0	0.35	5 pcs (per pack)
VSC130	13.0	8.0	0.35	4 pcs (per pack)
VSC240	24.0	16.0	0.35	4 pcs (per pack)
VSC075-S	7.5	4.0	0.35	100 pcs (per sheet)
VSC130-S	13.0	8.0	0.35	56 pcs (per sheet)
VSC240-S	24.0	16.0	0.35	20 pcs (per sheet)

V SERIES

VENTILATION LOUVER



- Recommended for condensation prevention and heat dissipation.
- 2 models available: ABS V60, V80 for BCAP and BCAR series, and PC V60S, V80S for BCPC, BCPK and BCAR series.
- Suitable to be used on a variety of enclosure types, series and models.



Product no. / Dimensions

Product no.	Material	Color	Installation hole	W	H	D	a	b	c	e
V60	ABS	White gray	Φ63	74.5	74.5	30.8	50.5	50.5	70	Φ3.8
V80	ABS	White gray	Φ88	100	100	36	71.5	71.5	94.8	Φ3.3
V60S	Polycarbonate	Light gray	Φ63	74.5	74.5	30.8	50.5	50.5	70	Φ3.8
V80S	Polycarbonate	Light gray	Φ88	100	100	36	71.5	71.5	94.8	Φ3.3

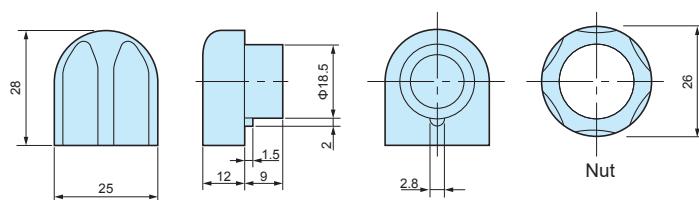
■ O-ring material: NBR Black

VF SERIES

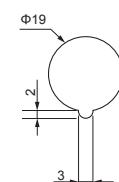
VENTILATION PARTS



VF-1



Installation hole



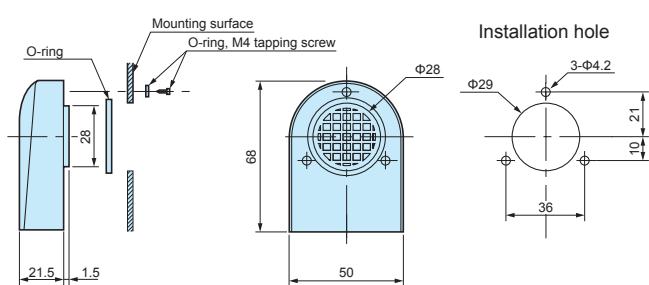
Technical Data

Protection class: VF-1 IP33
VF-2 IP24

Product no.

Product no.	Material / Color
VF-1	Polyamide / White gray
VF-2	Polyamide / White gray

VF-2



RMW SERIES

WEATHERPROOF CABLE GLAND



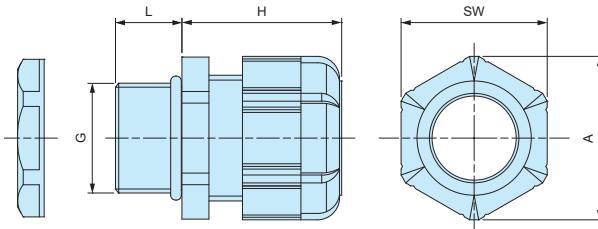
- Weatherproof cable gland equipped with high ultraviolet and degradation resistant silicone sealing insert and O-ring.
- Recommended to use outdoors where waterproofing is critical.

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	Nut	PA66 UL94V-2

RMW dimensions



Technical Data

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

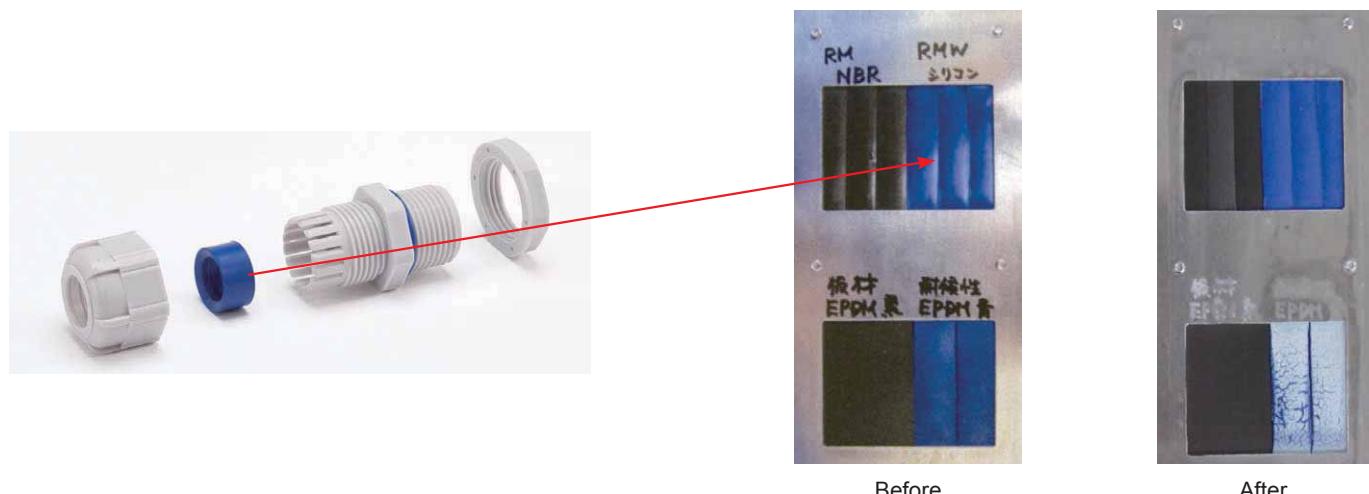
- DXF/DWG/PDF drawings available on our website.
- Lock nut is not included for RMW10S-6.
Please drill a proper thread hole into the enclosure for installation.

Product no. / Dimensions

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	11.8	13.5	1
RMW8L-4B	RMW8L-4S	M8×1.25	Φ8.2	2.5	4	13	19.5	11.8	13.5	1
RMW10S-6B	RMW10S-6S	M10×1.5	—	3	6	8	20.5	13	14.4	1
RMW10L-6B	RMW10L-6S	M10×1.5	Φ10.2	3	6	13	20.5	13	14.4	1
RMW12S-7B	RMW12S-7S	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.6	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	21	1
RMW16L-8B	RMW16L-8S	M16×1.5	Φ16.2	4	8	15	24	19	21	1
RMW20S-12B	RMW20S-12S	M20×1.5	Φ20.2	6	12	10	29	24	26.2	1
RMW20L-12B	RMW20L-12S	M20×1.5	Φ20.2	6	12	15	28.5	24	26.2	1
RMW25L-17B	RMW25L-17S	M25×1.5	Φ25.2	11	17	15	35	33	36.2	1
RMW32L-21B	RMW32L-21S	M32×1.5	Φ32.3	13	21	15	38	36	39.5	1
RMW40L-27B	RMW40L-27S	M40×1.5	Φ40.3	18	27	18	43.5	45.7	50.5	1
RMW50L-38B	RMW50L-38S	M50×1.5	Φ50.4	27	38	20	50.5	60	66.5	1
RMW8L-2.5B-P	RMW8L-2.5S-P	M8×1.25	Φ 8.2	1	2.5	13	19.5	11.8	13.5	100
RMW8L-4B-P	RMW8L-4S-P	M8×1.25	Φ 8.2	2.5	4	13	19.5	11.8	13.5	100
RMW10L-6B-P	RMW10L-6S-P	M10×1.5	Φ10.2	3	6	13	20.5	13	14.4	100
RMW12S-7B-P	RMW12S-7S-P	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.6	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	21	100
RMW16L-8B-P	RMW16L-8S-P	M16×1.5	Φ16.2	4	8	15	24	19	21	100
RMW20S-12B-P	RMW20S-12S-P	M20×1.5	Φ20.2	6	12	10	29	24	26.2	100
RMW20L-12B-P	RMW20L-12S-P	M20×1.5	Φ20.2	6	12	15	28.5	24	26.2	100
RMW25L-17B-P	RMW25L-17S-P	M25×1.5	Φ25.2	11	17	15	35	33	36.2	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 for comparison purposes.



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/m² at 300-400nm

Black Panel Temperature : 63±3°C Humidity Range : 50±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/m²

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



RM SERIES

POLYAMIDE CABLE GLAND



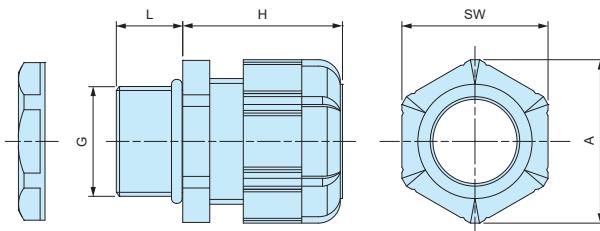
- Low cost cable glands made from polyamide material.
- Wide selection, for M8 ~ M63, suitable for $\Phi 1\text{mm} \sim \Phi 44\text{ mm}$ cable.
- High oil resistant NBR rubber sealing and O-ring.
- IP67 protection class.

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



Technical Data
Protection class: IP67
Operating temperature: $-20^\circ\text{C} \sim +80^\circ\text{C}$

- 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 a proper thread hole into the enclosure for installation.

Product no. / Dimensions

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	11.8	13.5	1
RM8L-2.5B	RM8L-2.5S	M8×1.25	Φ8.2	1	2.5	13	19.5	11.8	13.5	1
RM8S-4B	RM8S-4S	M8×1.25	—	2.5	4	7.5	19.5	11.8	13.5	1
RM8L-4B	RM8L-4S	M8×1.25	Φ8.2	2.5	4	13	19.5	11.8	13.5	1
RM10S-6B	RM10S-6S	M10×1.5	—	3	6	8	20.5	13	14.4	1
RM10L-6B	RM10L-6S	M10×1.5	Φ10.2	3	6	13	20.5	13	14.4	1
RM12S-7B	RM12S-7S	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.6	1
RM12L-7B	RM12L-7S	M12×1.5	Φ12.2	3.5	7	14.5	20.5	16	17.7	1
RM16S-8B	RM16S-8S	M16×1.5	Φ16.2	4	8	9	23.5	19	21	1
RM16L-8B	RM16L-8S	M16×1.5	Φ16.2	4	8	15	24	19	21	1
RM20S-12B	RM20S-12S	M20×1.5	Φ20.2	6	12	10	29	24	26.2	1
RM20L-12B	RM20L-12S	M20×1.5	Φ20.2	6	12	15	28.5	24	26.2	1
RM25L-17B	RM25L-17S	M25×1.5	Φ25.2	11	17	15	35	33	36.2	1
RM32L-21B	RM32L-21S	M32×1.5	Φ32.3	13	21	15	38	36	39.5	1
RM40L-27B	RM40L-27S	M40×1.5	Φ40.3	18	27	18	43.5	45.7	50.5	1
RM50L-38B	RM50L-38S	M50×1.5	Φ50.4	27	38	20	50.5	60	66.5	1
RM63L-44B	RM63L-44S	M63×1.5	Φ63.4	37	44	20	53	68	75.5	1
RM8L-2.5B-P	RM8L-2.5S-P	M8×1.25	Φ8.2	1	2.5	13	19.5	11.8	13.5	100
RM8L-4B-P	RM8L-4S-P	M8×1.25	Φ8.2	2.5	4	13	19.5	11.8	13.5	100
RM10L-6B-P	RM10L-6S-P	M10×1.5	Φ10.2	3	6	13	20.5	13	14.4	100
RM12S-7B-P	RM12S-7S-P	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.6	100
RM12L-7B-P	RM12L-7S-P	M12×1.5	Φ12.2	3.5	7	14.5	20.5	16	17.7	100
RM16S-8B-P	RM16S-8S-P	M16×1.5	Φ16.2	4	8	9	23.5	19	21	100
RM16L-8B-P	RM16L-8S-P	M16×1.5	Φ16.2	4	8	15	24	19	21	100
RM20S-12B-P	RM20S-12S-P	M20×1.5	Φ20.2	6	12	10	29	24	26.2	100
RM20L-12B-P	RM20L-12S-P	M20×1.5	Φ20.2	6	12	15	28.5	24	26.2	100
RM25L-17B-P	RM25L-17S-P	M25×1.5	Φ25.2	11	17	15	35	33	36.2	100

RPG SERIES

POLYAMIDE CABLE GLAND

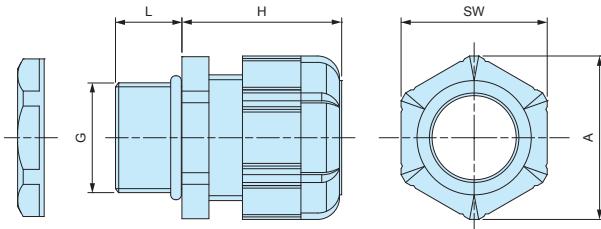


IP67



- Inexpensive cable glands made from polyamide material with PG threading.
- High oil resistant NBR rubber sealing and O-ring.
- IP67 protection class.

RPG dimensions



DXF/DWG/PDF drawings available on our website.

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

Technical Data

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

Product no. / Dimensions

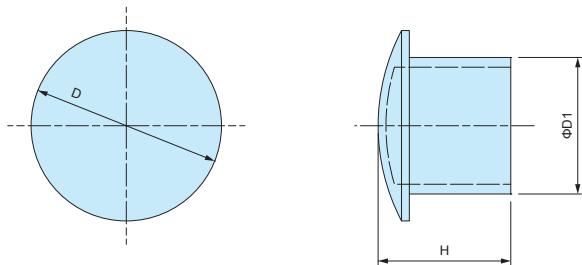
Product no.		G			Cable range		L	H Max	SW	A	Pack of
● Black	● Gray	Thread size	Thread dia.	Mounting hole	Min	Max					
RPG7-7B	RPG7-7G	PG7	12.5	Φ12.7	3	7	9	20.5	16	17.7	1
RPG9-8B	RPG9-8G	PG9	15.2	Φ15.4	4	8	9	23.5	19	21	1
RPG11-10B	RPG11-10G	PG11	18.6	Φ18.8	5	10	9	26	22	24	1
RPG13.5-11B	RPG13.5-11G	PG13.5	20.4	Φ20.6	6	11	10	29	24	26.4	1
RPG16-14B	RPG16-14G	PG16	22.5	Φ22.7	8	14	10	30	26.7	29.5	1
RPG21-18B	RPG21-18G	PG21	28.3	Φ28.5	13	18	12	35	33	36.5	1
RPG29-25B	RPG29-25G	PG29	37	Φ37.2	18	25	12	41.5	42	46.5	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 $\Phi 2.5\text{mm} \sim \Phi 42\text{ mm}$ cable.
- Super tough and superior heat resistant PA6GF (glass fiber filled PA6) material on cap and connector.
- Safer halogen free, eco-friendly product.

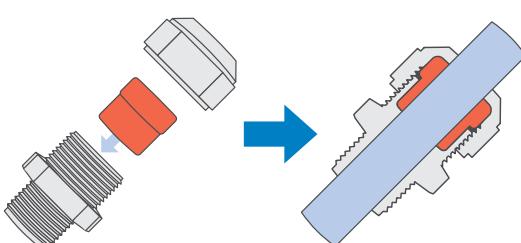
Technical Data

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

AG Series

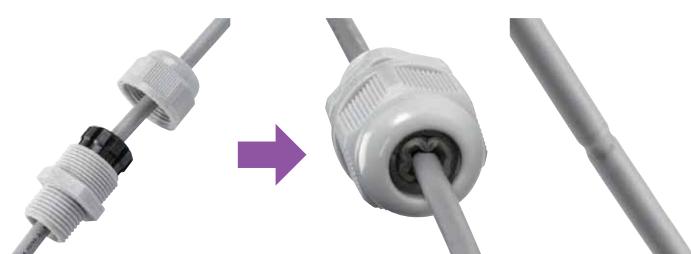
Thicker sealing insert evenly hold a cable by having a larger holding area.

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.

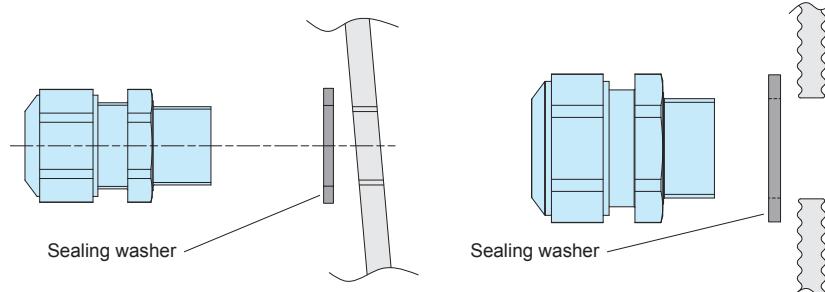
Please drill a proper thread hole into the enclosure for installation.

- 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.



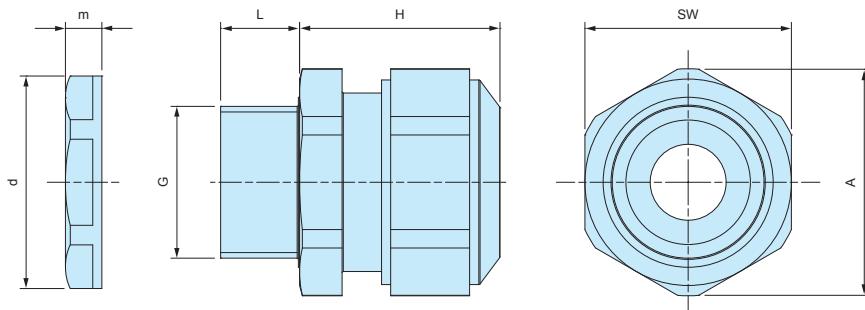
■ No optional sealing washer is required when installing on an even surface because of the built-in waterproof rib.

■ An optional sealing washer is required when installing on an uneven surface. (See page AGP-1 for more information on the optional sealing washer)



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

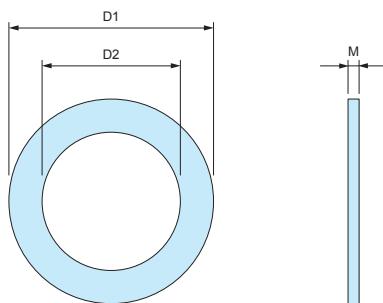
AGP SERIES

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

RSP SERIES

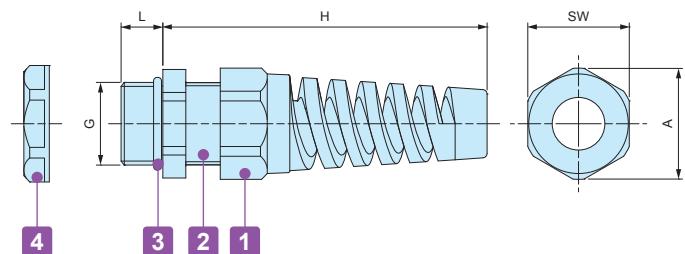
STRAIN RELIEF CABLE GLAND



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

Technical Data	
Protection class : IP67 Temperature range -20°C ~ +80°C	

RSP dimensions



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. / Dimensions

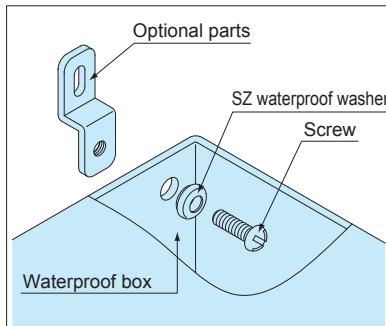
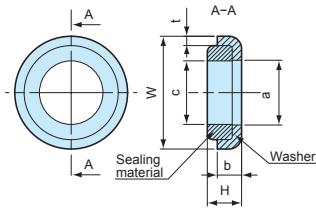
Product no.		G		Cable range		L	H Max	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RSP12-6B	RSP12-6S	M12×1.5	φ12.2	3.5	6	9	62	16	17	1
RSP16-8B	RSP16-8S	M16×1.5	φ16.2	4	8	9	69	19.5	21	1
RSP20-11B	RSP20-11S	M20×1.5	φ20.2	6	11	10	82	24	26	1
RSP25-16B	RSP25-16S	M25×1.5	φ25.2	11	16	12	102	33	36	1

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).



■ Shape of the sealing material vary by product.

Technical Data
Water pressure resistance: M3 ~ M10 : 200kg/cm ² 5min M12 ~ M16 : 100kg/cm ² 5min

Product no. / Dimensions

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