

Serie AWN

IP 67 Aluminium-Kühlkörpergehäuse

Series AWN

IP 67 heatsink aluminium enclosure



Technische Daten

Schutzklasse: IP67
Temperaturbereich: -40°C ~ +105°C
Empfohlenes Drehmoment:
1.0N • m (10kgf • cm)

Technical Data

Protection class: IP67
Operating temperature: -40°C ~ +105°C
Recommended torque:
1.0N • m (10kgf • cm)

- IP67 Aluminiumgehäuse mit Kühlrippen verfügbar als normal und EMV geschützte Version.
- Aluminiumprofil und Druckguss-Deckelplatten geeignet für raue Umgebungen und große Temperaturbereiche.
- Integrierte Nuten dienen als Führung für Leiterplatten oder Montageplatten.
- Geeignet für Messgeräte, Industriegehäuse, Kamergehäuse uvm.

- IP67 and heat dissipation enclosure design. Selectable in both Normal or EMC Shielded type.
- The extruded aluminium frame and diecast aluminium panels makes it extremely suitable to be used in harsh environments where waterproofing and heat dissipation is essential.
- PCB or chassis can be mounted by sliding it horizontally into inner-grooved body frame.
- Suitable for measuring instruments, industrial control box, and industrial camera housing, among others.

N Version Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Endplatte	2	Aluminiumdruckguss	Metallic Grau • Schwarz / pulverbeschichtet
2	Profil	1	Aluminiumprofil	Silber • Schwarz / eloxiert
3	Dichtung	2	Silikon	Schwarz
4	Schraube	8	Edelstahl	unbehandelt
5	Gummifüße	4	Polyurethane	Schwarz

Normal N type Components

No.	Part name	Pcs	Material	Color / Finish
1	End panel	2	Diecast aluminium ADC12	Metallic gray • Black / Powder coated
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized
3	Gasket	2	Silicone	Black
4	Screw	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane	Black

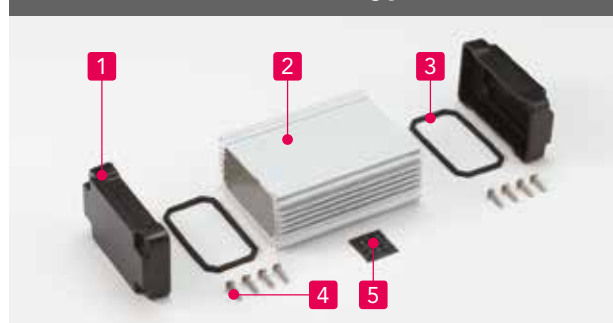
EMV geschützte Ausführung Typ E

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Endplatte	2	Aluminiumdruckguss	Silber • Schwarz / lackiert
2	Profil	1	Aluminiumprofil	Silber • Schwarz / eloxiert
3	leitfähige Dichtung	2	leitfähiges Silikon	Schwarz
4	Schraube	8	Edelstahl	unbehandelt
5	Gummifüße	4	Polyurethane	Schwarz

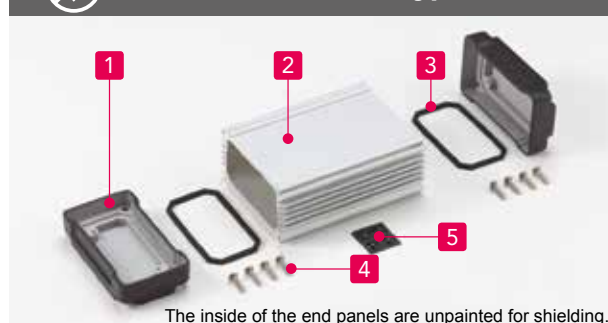
EMC Shielded E type Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged end panel	2	Diecast aluminium ADC12	Silver • Black / Painted (unfinished inside)
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized
3	Conductive gasket	2	Conductive silicone	Black
4	Screw	8	Stainless steel	Unfinished
5	Rubber	4	Polyurethane	Black

Normal - N type



EMC Shielded - E type



The inside of the end panels are unpainted for shielding.

Zubehör (Optional erhältlich)

Accessories (optional parts)



Montageplatte Serie AWC
Mounting plate AWC series



Innensechskant Schraube
Serie HCS
Hexagon socket head screw
HCS series



Kabelverschraubungen
Cable gland



Silikonschutz Serie AWSP
Silicone protector
AWSP series



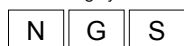
Protective vent
PMF Series

Normal / EMC Shielded • Color Code

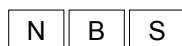
Normal - N type



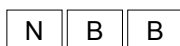
Metallic gray / Silver



Black / Silver



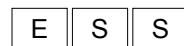
Black / Black



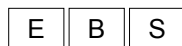
EMC Shielded - E type



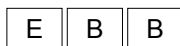
Silver / Silver



Black / Silver



Black / Black



Best-Nr. / Maße

Product no. / Dimensions

Best-Nr. Product no.	W	H	D	※Wärmewiderstand (°C/W) ※Thermal resistance (°C/W)	Gewicht (g) Weight (g)
AWN 5-4- 7□□□	54.6	34.6	65	11.2	118.5
AWN 5-4- 9□□□	54.6	34.6	85	9.18	139
AWN 5-4-11□□□	54.6	34.6	110	7.64	165
AWN 5-4-14□□□	54.6	34.6	135	6.63	191.5
AWN 7-7- 8□□□	65.8	65.8	80	4.41	272.5
AWN 7-7-11□□□	65.8	65.8	110	3.5	328
AWN 7-7-15□□□	65.8	65.8	150	2.83	402.5
AWN 7-7-20□□□	65.8	65.8	200	2.33	495
AWN 7-7-25□□□	65.8	65.8	250	2.02	588
AWN 8-5- 9□□□	80.8	45.8	90	5.97	259.5
AWN 8-5-12□□□	80.8	45.8	115	5.01	300.5
AWN 8-5-14□□□	80.8	45.8	140	4.37	342
AWN 8-5-18□□□	80.8	45.8	175	3.76	399.5
AWN 9-9-10□□□	86.3	86.3	100	3.1	521.5
AWN 9-9-13□□□	86.3	86.3	125	2.63	594.5
AWN 9-9-17□□□	86.3	86.3	170	2.12	725.5
AWN 9-9-22□□□	86.3	86.3	220	1.79	871.5
AWN 9-9-28□□□	86.3	86.3	275	1.54	1,032
AWN11-6-11□□□	106.3	56.3	110	4.52	479.5
AWN11-6-15□□□	106.3	56.3	150	3.62	578
AWN11-6-19□□□	106.3	56.3	190	3.08	676.5
AWN11-6-24□□□	106.3	56.3	240	2.64	800
AWN12-8-11□□□	120	71.3	105	3.6	590.5
AWN12-8-14□□□	120	71.3	140	2.93	696.5
AWN12-8-17□□□	120	71.3	179.5	2.47	816
AWN12-8-22□□□	120	71.3	215	2.18	923.5
AWN16-9-14□□□	156.3	81.3	135	2.64	871.5
AWN16-9-18□□□	156.3	81.3	175	2.2	1,018.5
AWN16-9-23□□□	156.3	81.3	225	1.86	1,201.5
AWN16-9-28□□□	156.3	81.3	275	1.63	1,385
AWN21-9-17□□□	206.3	81.3	170	2.3	1,261
AWN21-9-21□□□	206.3	81.3	210	1.99	1,431.5
AWN21-9-26□□□	206.3	81.3	260	1.72	1,644.5
AWN21-9-31□□□	206.3	81.3	310	1.54	1,857.5

- ※ Thermal resistance test condition
- Ambient air cooling
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Anodized aluminium extrusion
- Heat source is applied on the opposite side (inner side) of the fins.

■ Bitte ergänzen Sie den Farbcode am Ende der Bestell-Nr.

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

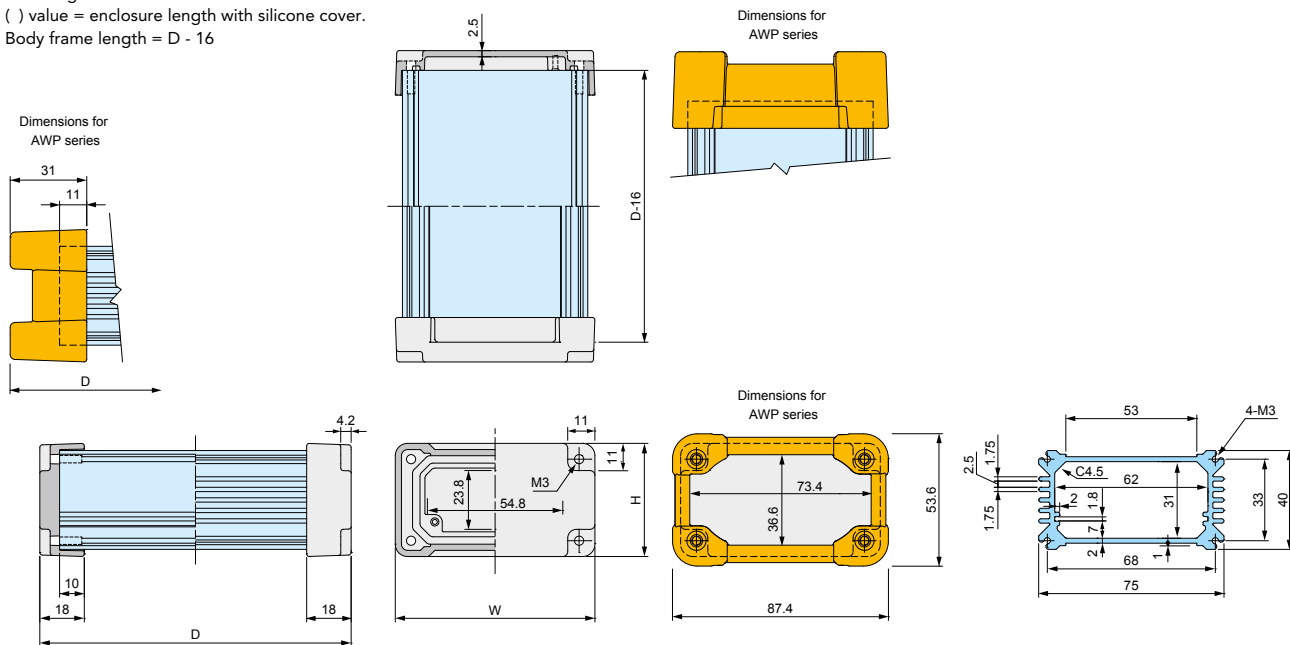
Serie AWN / AWP Maße

Series AWN / AWP dimensions

Best-Nr. - Product no.	W	H	D
AWN / AWP 8-5- 9	80.8	45.8	90 (114)
AWN / AWP 8-5-12	80.8	45.8	115 (139)
AWN / AWP 8-5-14	80.8	45.8	140 (164)
AWN / AWP 8-5-18	80.8	45.8	175 (199)

- () Wert = Gehäuselänge mit Silikon-Protector.
- Profillänge = D - 16
- () value = enclosure length with silicone cover.
- Body frame length = D - 16

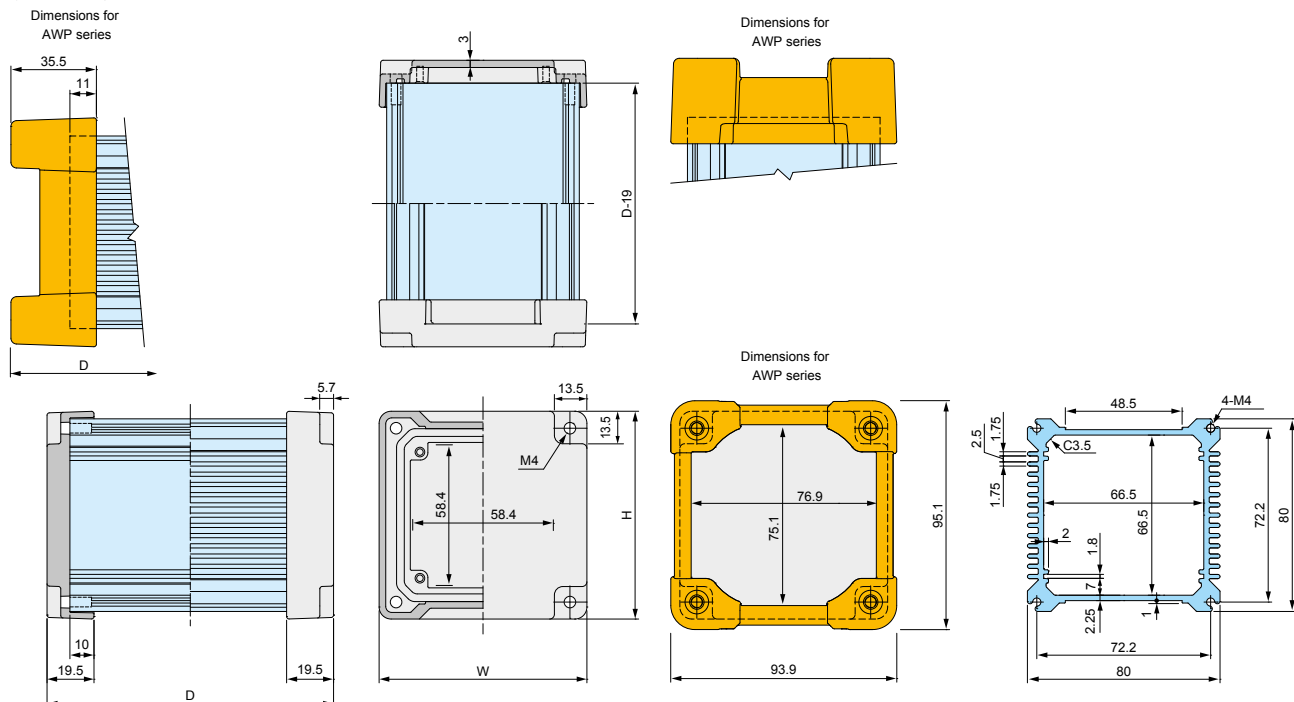
AWN / AWP8-5-□



Best-Nr. - Product no.	W	H	D
AWN / AWP 9-9-10	86.3	86.3	100 (130)
AWN / AWP 9-9-13	86.3	86.3	125 (155)
AWN / AWP 9-9-17	86.3	86.3	170 (200)
AWN / AWP 9-9-22	86.3	86.3	220 (250)
AWN / AWP 9-9-28	86.3	86.3	275 (305)

- () Wert = Gehäuselänge mit Silikon-Protector.
- Profillänge = D - 19
- () value = enclosure length with silicone cover.
- Body frame length = D - 19

AWN / AWP9-9-□



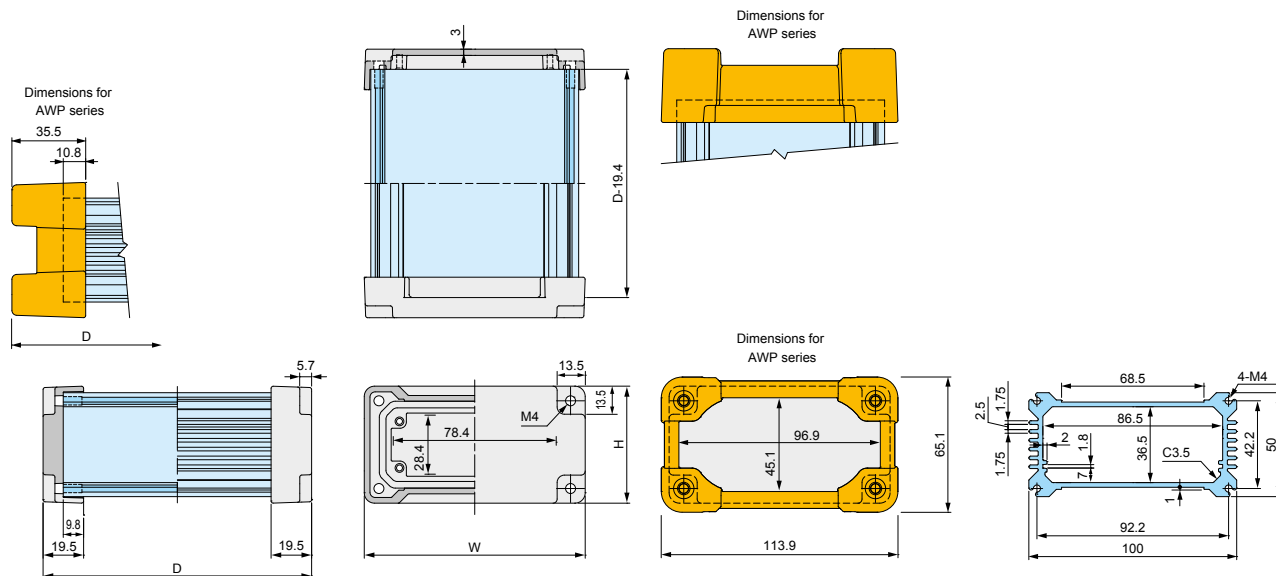
Serie AWN / AWP Maße

Series AWN / AWP dimensions

AWN / AWP11-6-□

Best-Nr. - Product no.	W	H	D
AWN / AWP11-6-11	106.3	56.3	110 (140)
AWN / AWP11-6-15	106.3	56.3	150 (180)
AWN / AWP11-6-19	106.3	56.3	190 (220)
AWN / AWP11-6-24	106.3	56.3	240 (270)

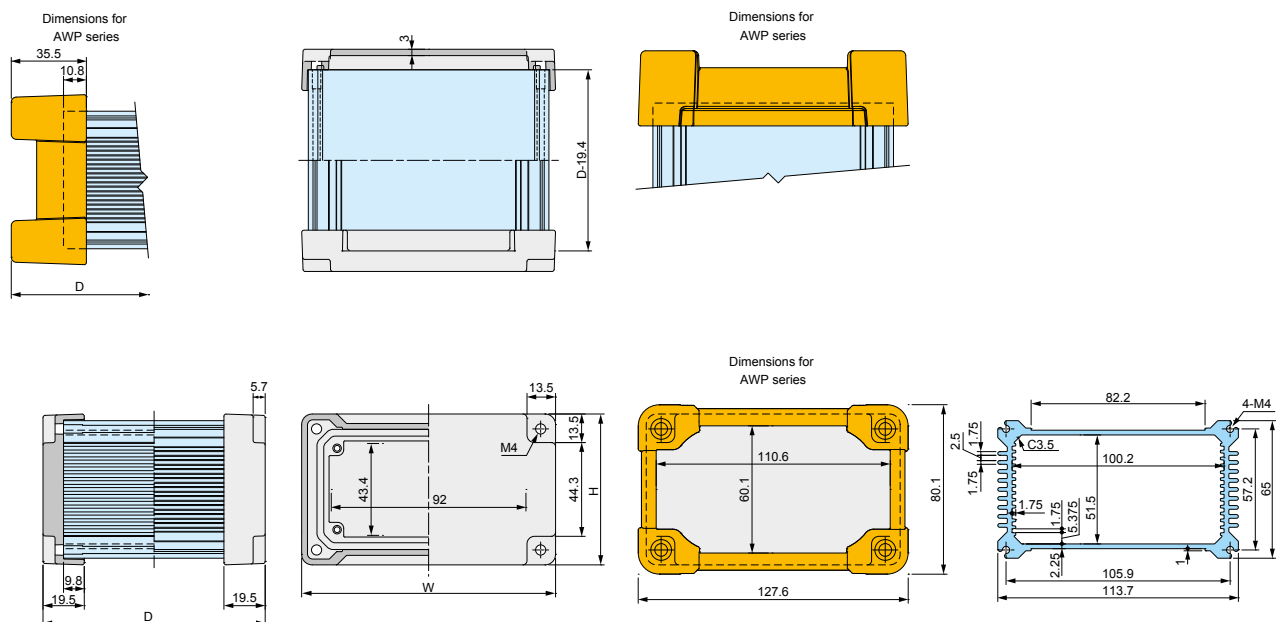
- () Wert = Gehäuselänge mit Silikon-Protector.
- Profillänge = D - 19.4
- () value = enclosure length with silicone cover.
- Body frame length = D - 19.4



AWN / AWP12-8-□

Best-Nr. - Product no.	W	H	D
AWN / AWP12-8-11	120	71.3	105 (135)
AWN / AWP12-8-14	120	71.3	140 (170)
AWN / AWP12-8-17	120	71.3	179.5 (209.5)
AWN / AWP12-8-22	120	71.3	215 (245)

- () Wert = Gehäuselänge mit Silikon-Protector.
- Profillänge = D - 16
- () value = enclosure length with silicone cover.
- Body frame length = D - 19.4

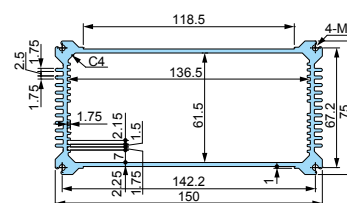
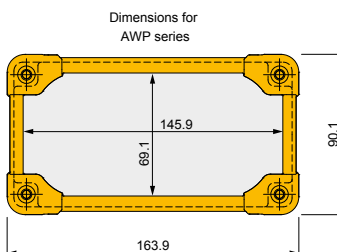
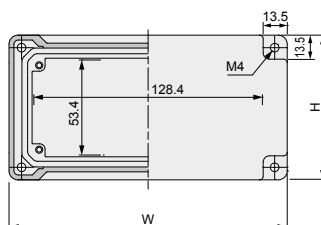
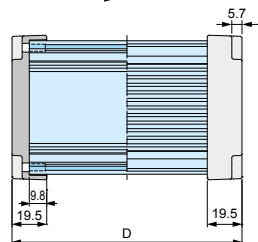
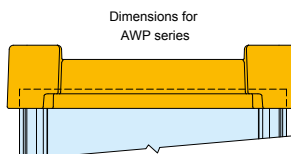
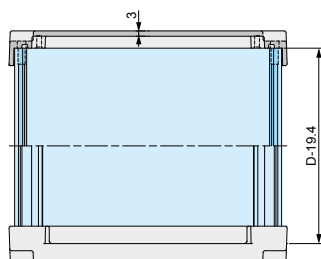
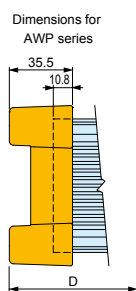


Series AWN / AWP dimensions

AWN / AWP16-9-□

Best-Nr. - Product no.	W	H	D
AWN / AWP16-9-14	156.3	81.3	135 (165)
AWN / AWP16-9-18	156.3	81.3	175 (205)
AWN / AWP16-9-23	156.3	81.3	225 (255)
AWN / AWP16-9-28	156.3	81.3	275 (305)

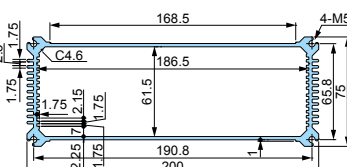
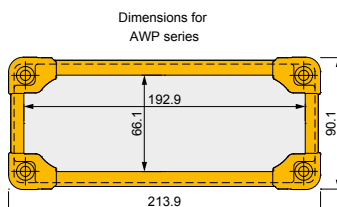
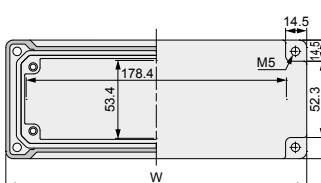
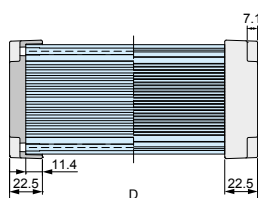
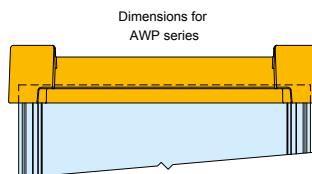
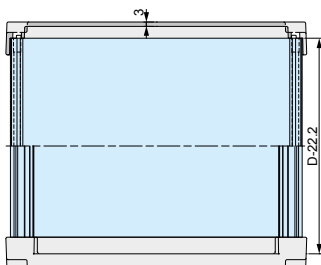
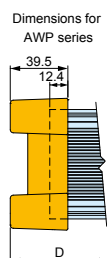
- () Wert = Gehäuselänge mit Silikon-Protector.
- Profillänge = D - 19.4
- () value = enclosure length with silicone cover.
- Body frame length = D - 19.4



AWN / AWP21-9-□

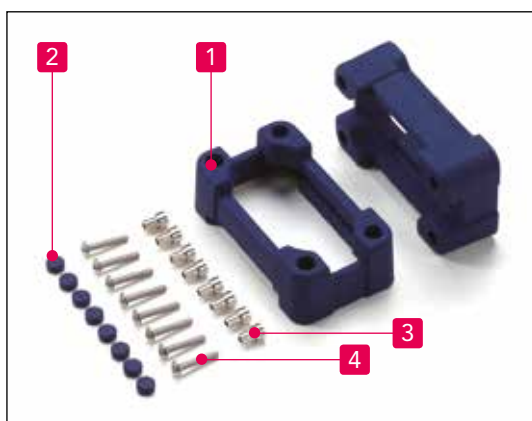
Best-Nr. - Product no.	W	H	D
AWN / AWP21-9-17	206.3	81.3	170 (202)
AWN / AWP21-9-21	206.3	81.3	210 (242)
AWN / AWP21-9-26	206.3	81.3	260 (292)
AWN / AWP21-9-31	206.3	81.3	310 (342)

- () Wert = Gehäuselänge mit Silikon-Protector.
- Profillänge = $D - 22.2$
- () value = enclosure length with silicone cover.
- Body frame length = $D - 22.2$



Serie AWSP Silikonschutz

Series AWSP Silicone Protector



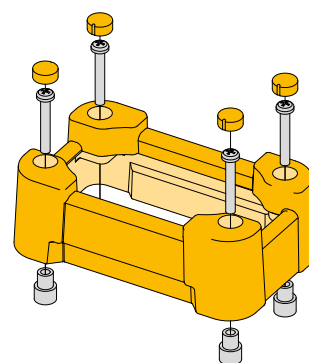
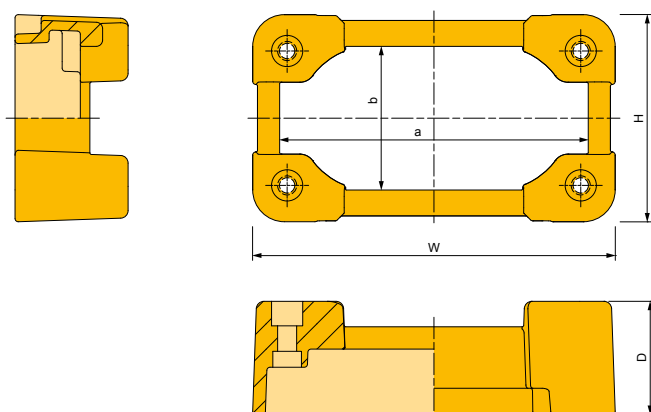
Farbvariante - Color Type

Code	B Schwarz B Black	G Grau G Gray	N Navy N Navy	Y Gelb Y Yellow
Farbe - Color				

- Silikonschutz für Serie AWN.
- Schützt Schalter und/oder Steckverbindungen in den Deckelplatten bei einem Sturz.
- Silicone protector for AWN series.
- Protect switches and/or connectors on end panels from impact when dropped, etc.

AWSP Maße

AWSP dimensions



Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Protector	2	Silikon	Schwarz • Grau • Navy • Gelb
2	Blindstopfen	8	Silikon	Schwarz • Grau • Navy • Gelb
3	Abstandshalter	8	Messing	vernickelt
4	Schraube	8	Edelstahl	unbehandelt

Components

No.	Part name	Pcs	Material	Color / Finish
1	Protector	2	Silicone	Black • Gray • Navy • Yellow
2	Blind cap	8	Silicone	Black • Gray • Navy • Yellow
3	Spacer	8	Brass	Nickel plated
4	Screw	8	Stainless steel	Unfinished

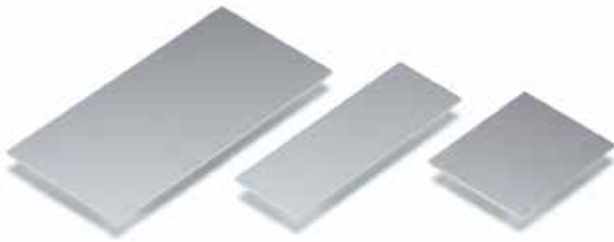
Best-Nr. / Maße Product no. / Dimensions

- Bitte ergänzen Sie den Farbcode am Ende der Bestell-Nr.
- Please suffix color code at the end of the product number.

Best-Nr. Product no.	W	H	D	a	b	Schraubengr. Screw size	Passendes Gehäuse Suitable enclosure	Gewicht (g) Weight (g)
AWSP 7-7□	72.4	73.6	31	58.4	56.6	M3	AWN 7-7-□	99
AWSP 8-5□	87.4	53.6	31	73.4	36.6	M3	AWN 8-5-□	100.5
AWSP 9-9□	93.9	95.1	35.5	76.9	75.1	M4	AWN 9-9-□	184.5
AWSP11-6□	113.9	65.1	35.5	96.9	45.1	M4	AWN11-6-□	186
AWSP12-8□	127.6	80.1	35.5	110.6	60.1	M4	AWN12-8-□	201
AWSP16-9□	163.9	90.1	35.5	145.9	69.1	M4	AWN16-9-□	235
AWSP21-9□	213.9	90.1	39.5	192.9	66.1	M5	AWN21-9-□	333

Serie AWC Montageplatte aus Aluminium

Series AWC Aluminium Mounting Plate



- Material: Aluminium A1050P t=1.5 / silber eloxiert.
- Montageplatte für Serien AW, AWN, und AWP.
- Geeignet für Montage von Leiterplatten, Netzteilen uvm.

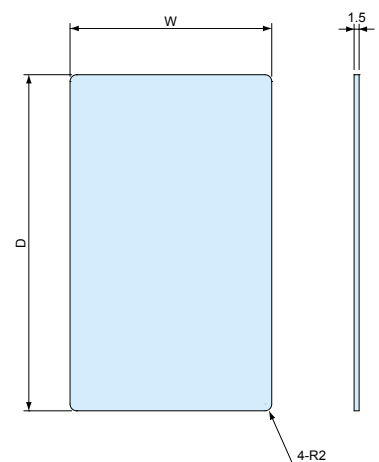
APPLICATION EXAMPLE



- Material: Aluminium A1050P t=1.5 / silver anodized
- Mounting plate for AW, AWN, and AWP series enclosures.
- Utilize for mounting PCB, power supply, terminal blocks, etc.

Best-Nr. / Maße - Product no. / Dimensions

Best-Nr. - Product no.	W	D	Passendes Gehäuse - Suitable enclosure
AWC 5- 7	38.9	49.2	AW • AWN 5-4-7
AWC 5- 9	38.9	69.2	AW • AWN 5-4-9
AWC 5-11	38.9	94.2	AW • AWN 5-4-11
AWC 5-14	38.9	119.2	AW • AWN 5-4-14
AWC 7- 8	47	64	AW • AWN • AWP 7-7-8
AWC 7-11	47	94	AW • AWN • AWP 7-7-11
AWC 7-15	47	134	AW • AWN • AWP 7-7-15
AWC 7-20	47	184	AW • AWN • AWP 7-7-20
AWC 7-25	47	234	AW • AWN • AWP 7-7-25
AWC 8- 9	61.8	74	AW • AWN • AWP 8-5-9
AWC 8-12	61.8	99	AW • AWN • AWP 8-5-12
AWC 8-14	61.8	124	AW • AWN • AWP 8-5-14
AWC 8-18	61.8	159	AW • AWN • AWP 8-5-18
AWC 9-10	66.5	81	AW • AWN • AWP 9-9-10
AWC 9-13	66.5	106	AW • AWN • AWP 9-9-13
AWC 9-17	66.5	151	AW • AWN • AWP 9-9-17
AWC 9-22	66.5	201	AW • AWN • AWP 9-9-22
AWC 9-28	66.5	256	AW • AWN • AWP 9-9-28
AWC11-11	86.5	90.6	AW • AWN • AWP11-6-11
AWC11-15	86.5	130.6	AW • AWN • AWP11-6-15
AWC11-19	86.5	170.6	AW • AWN • AWP11-6-19
AWC11-24	86.5	220.6	AW • AWN • AWP11-6-24
AWC12-11	100.2	85.6	AW • AWN • AWP12-8-11
AWC12-14	100.2	120.6	AW • AWN • AWP12-8-14
AWC12-17	100.2	160.1	AW • AWN • AWP12-8-17
AWC12-22	100.2	195.6	AW • AWN • AWP12-8-22
AWC16-14	136.3	115.6	AW • AWN • AWP16-9-14
AWC16-18	136.3	155.6	AW • AWN • AWP16-9-18
AWC16-23	136.3	205.6	AW • AWN • AWP16-9-23
AWC16-28	136.3	255.6	AW • AWN • AWP16-9-28
AWC21-17	186.1	147.8	AW • AWN • AWP21-9-17
AWC21-21	186.1	187.8	AW • AWN • AWP21-9-21
AWC21-26	186.1	237.8	AW • AWN • AWP21-9-26
AWC21-31	186.1	287.8	AW • AWN • AWP21-9-31



Serie HCS Innensechskantschraube

Series HCS Hexagon Socket Head Screw

- Innensechskantschraube zur Befestigung der Deckelplatten.
- Manipulationssicher und schlichtes Design.

- Hexagon socket head screws for fastening the end panels of AW and AWN enclosures.
- Utilize for tamper-resistance functionality or for an elegant sleek look.



Best-Nr. / Maße - Product no. / Dimensions

Best-Nr. Product no.	M	L	S	Material	VPE Pack of
HCS3-12S	3	12	2.5	Edelstahl	8
HCS3-12S	3	12	2.5	Stainless steel	8
HCS4-12S	4	12	3	Edelstahl	8
HCS4-12S	4	12	3	Stainless steel	8
HCS5-12S	5	12	4	Edelstahl	8
HCS5-12S	5	12	4	Stainless steel	8