

Serie TWF Kunststoffgehäuse mit Wand-Montageflansch

Series TWF plastic enclosure with wall mounting flange

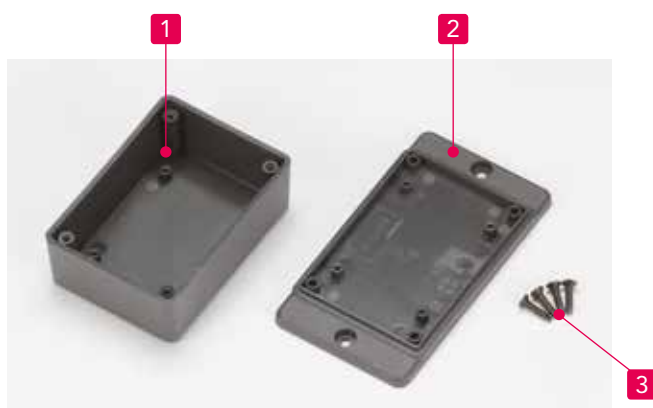


Technische Daten

Schutzklasse: IP40
Temperaturbereich: -10°C ~ +60°C

Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C



- Mehrzweck-Gehäuse für Geräte, die an der Wand oder an einem Terminal montiert werden.
- In 23 Größen, 2 Farben erhältlich, schwer entflammables ABS UL94V-0 : UL94V-1.
- Inklusive Befestigungsmöglichkeit für Leiterplatten.
- Vielseitig geeignet für Messinstrumente, Kommunikationsgeräte, Regelgeräte etc.
- Multi-purpose flanged enclosure designed for use as a wall-mounted device/terminal.
- 23 different sizes in 2 colors. Made of ABS UL94V-0 : UL94V-1.
- Equipped with screwing bosses for PCB.
- Recommended to be used as measurement instruments, wireless communication gadgets, controller devices and so on.

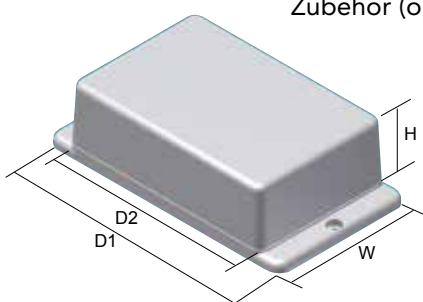
Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Deckel	1	ABS UL94V-0 : UL94-1	Hellgrau • Dunkelgrau
2	Grundplatte	1	ABS UL94V-0 : UL94-1	Hellgrau • Dunkelgrau
3	selbstschneidende Schrauben	2 / 4	Stahl	Vernickelt • Schwarz verchromt

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	ABS UL94V-0 : UL94-1	Off-white • Dark gray
2	Flanged base	1	ABS UL94V-0 : UL94-1	Off-white • Dark gray
3	Self tapping screw	2 / 4	Steel	Nickel plated • Black trivalent chromate

Zubehör (optional erhältlich) - Accessories (optional parts)



TORX Schraube
TORX screw
MR series



PCB Montageschraube
PCB mounting screw
EM-2.3



Abstandsbolzen
Tapping standoff
TPS series

Anwendungsbeispiele

Application Examples

SOLAR POWER SYSTEM REMOTE MONITOR

Product by Wave Energy Inc. (Japan)
Website : wavee.co.jp



SOLAR PANEL CHARGE CONTROLLER

Product by SunWorks Inc. (UK)
Website : sunworks.co.uk



WIRELESS RFID TAG SEARCH DEVICE

Product by MULTILUX (Slovenia)
Website : multilux.eu



RFID TAG

Using our PS-65W portable plastic case.



WIRELESS LIGHTING CONTROL ROUTER

Product by Deus LLC (Russia)
Website : me6cloud.com



Farbcode

Code	Deckel	Grundplatte	Schrauben
W	hellgrau	hellgrau	vernickelt
D	dunkelgrau	dunkelgrau	schwarz verchromt

Color Type

Code	Cover	Flanged base	Screw
W	off-white	off-white	nickel plated
D	dark gray	dark gray	black trivalent chromate

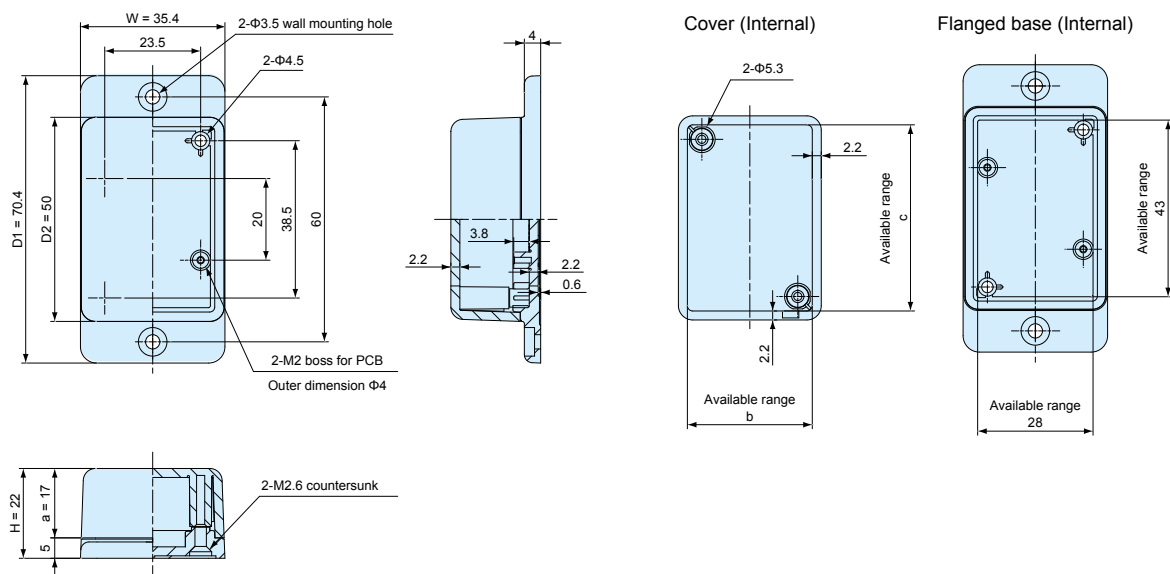
Best.-Nr. / Maße - Product no. / Dimensions

Best.-Nr. - Product no.		Maße - Dimensions				UL Klasse UL class	Schrauben Screw	Gewicht Weight (g)
● Off-white	● Dark gray	W	H	D1 (Flanged base)	D2 (Cover)			
TWF 4-2- 5W	TWF 4-2- 5D	35.4	22	70.4	50	UL94V-0	M2.6-12 × 2 pcs	19.7
TWF 5-2- 5W	TWF 5-2- 5D	50.4	17	70.4	50	UL94V-1	M2.6-12 × 4 pcs	21.5
TWF 5-3- 5W	TWF 5-3- 5D	50.4	27	70.4	50	UL94V-1	M2.6-12 × 4 pcs	26.5
TWF 5-2- 7W	TWF 5-2- 7D	50.4	17	90.4	70	UL94V-1	M2.6-12 × 4 pcs	29
TWF 5-3- 7W	TWF 5-3- 7D	50.4	29.5	90.4	70	UL94V-1	M2.6-12 × 4 pcs	36
TWF 5-4- 7W	TWF 5-4- 7D	50.4	42	90.4	70	UL94V-1	M2.6-12 × 4 pcs	43.5
TWF 5-3- 9W	TWF 5-3- 9D	45.6	27.5	111	90	UL94V-0	M2.6-12 × 4 pcs	43
TWF 7-2-11W	TWF 7-2-11D	70.6	20.5	127	105	UL94V-0	M2.6-14 × 4 pcs	66.5
TWF 7-4-11W	TWF 7-4-11D	70.6	35.5	127	105	UL94V-0	M2.6-14 × 4 pcs	82
TWF 7-5-11W	TWF 7-5-11D	70.6	50.5	127	105	UL94V-0	M2.6-14 × 4 pcs	96.5
TWF 7-3-13W	TWF 7-3-13D	65.5	25.5	150	130	UL94V-0	M3-16 × 4 pcs	87
TWF 7-5-13W	TWF 7-5-13D	65.5	50	150	130	UL94V-0	M3-16 × 4 pcs	114
TWF 8-2- 8W	TWF 8-2- 8D	80.6	23.5	100.6	80	UL94V-0	M2.6-14 × 4 pcs	62
TWF 8-4- 8W	TWF 8-4- 8D	80.6	43.5	100.6	80	UL94V-0	M2.6-14 × 4 pcs	82
TWF 9-4-17W	TWF 9-4-17D	86	35	190	170	UL94V-0	M3-16 × 4 pcs	150
TWF 9-6-17W	TWF 9-6-17D	86	60	190	170	UL94V-0	M3-16 × 4 pcs	184
TWF11-5-22W	TWF11-5-22D	110.3	45	250.6	220	UL94V-0	M3-16 × 4 pcs	250
TWF11-8-22W	TWF11-8-22D	110.3	75	250.6	220	UL94V-0	M3-16 × 4 pcs	303
TWF13-3-13W	TWF13-3-13D	125.6	25	155.6	125	UL94V-0	M3-16 × 4 pcs	155
TWF13-5-13W	TWF13-5-13D	125.6	45	155.6	125	UL94V-0	M3-16 × 4 pcs	189
TWF13-3-18W	TWF13-3-18D	125.6	25	205.6	175	UL94V-0	M3-16 × 4 pcs	199
TWF13-5-18W	TWF13-5-18D	125.6	45	205.6	175	UL94V-0	M3-16 × 4 pcs	242
TWF13-7-18W	TWF13-7-18D	125.6	65	205.6	175	UL94V-0	M3-16 × 4 pcs	281

TWF Maße

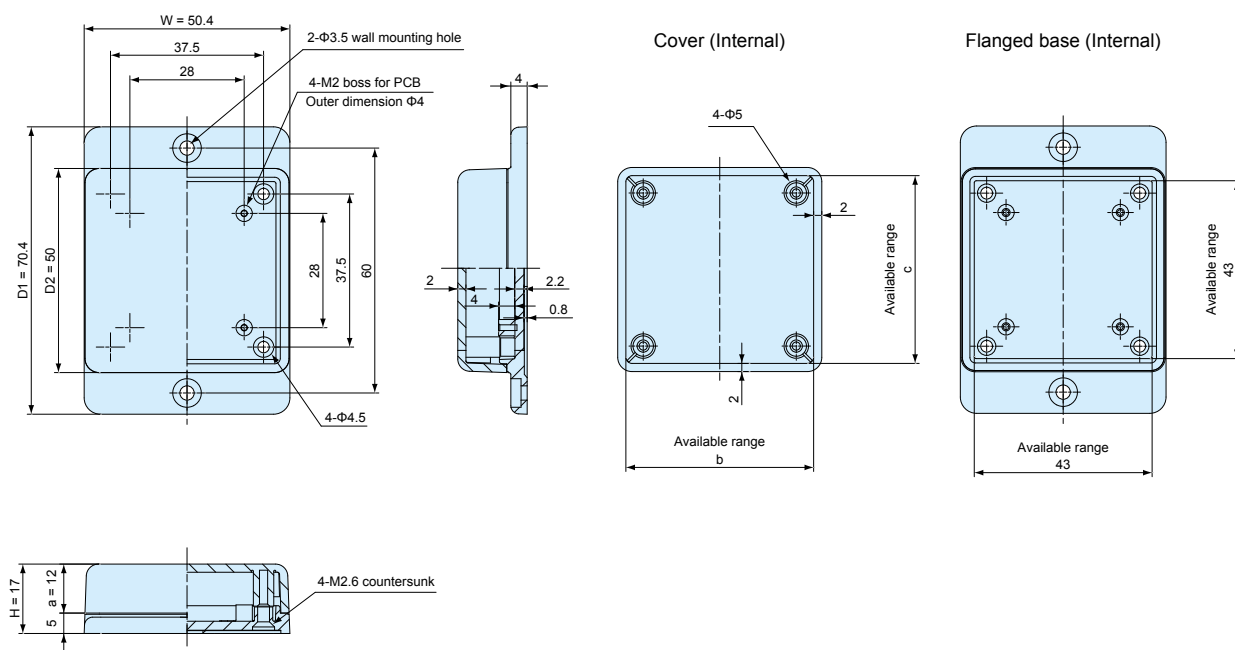
TWF dimensions

TWF4-2-5□



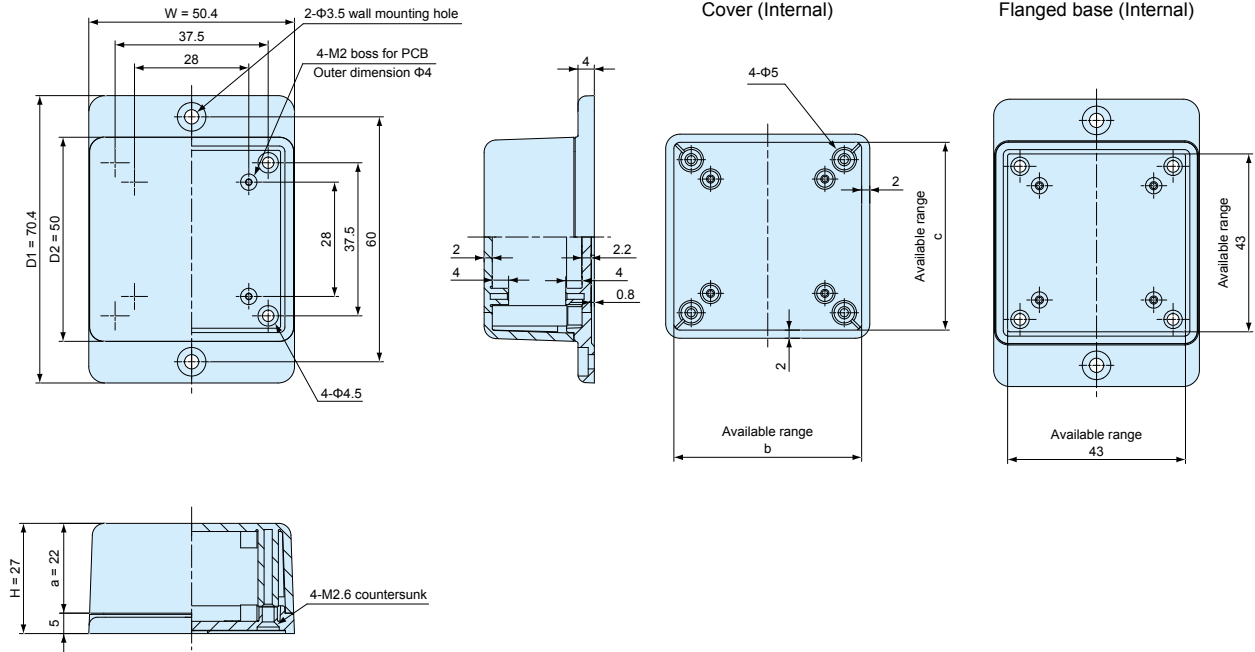
Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF4-2-5□	35.4	22	70.4	50	17	29	44

TWF5-2-5□



Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF5-2-5□	50.4	17	70.4	50	12	45	45

TWF5-3-5□

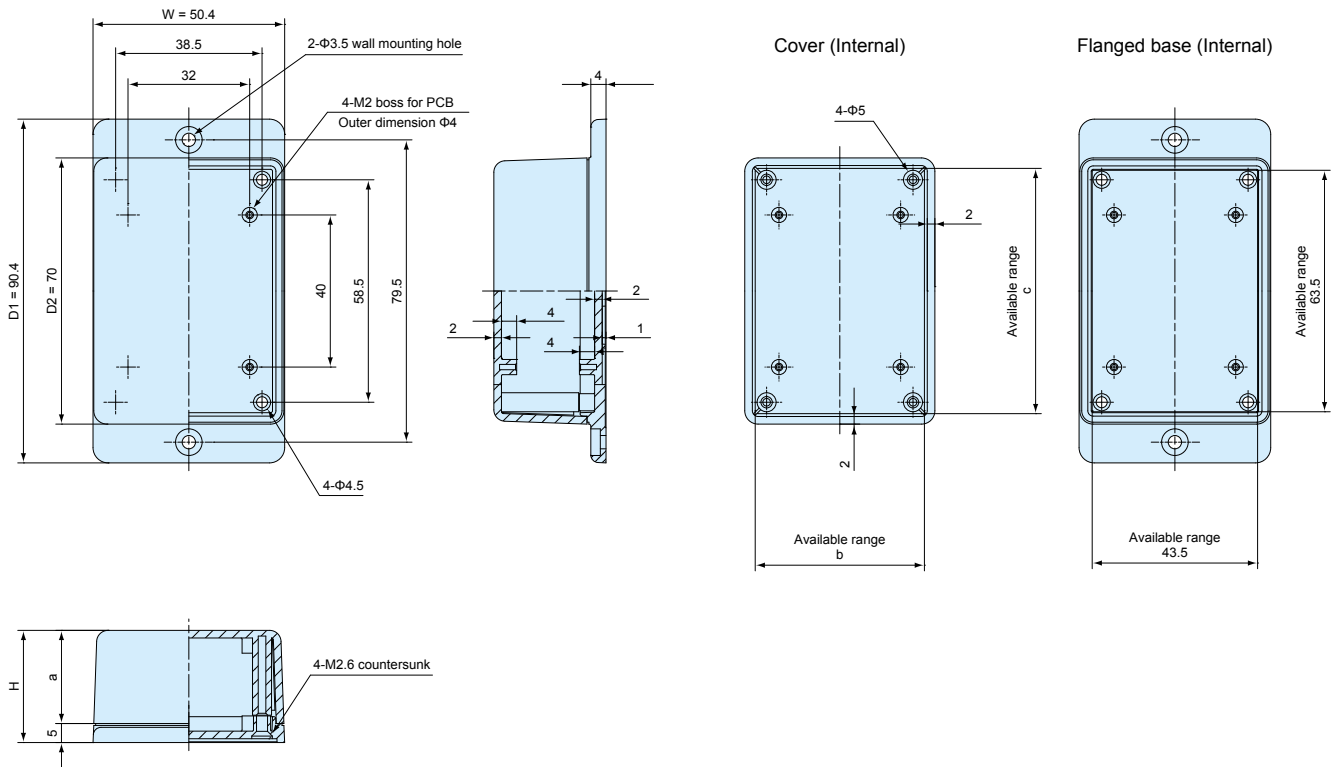


Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF5-3-5□	50.4	27	70.4	50	22	44.5	44.5

TWF5-2-7□

TWF5-3-7□

TWF5-4-7□

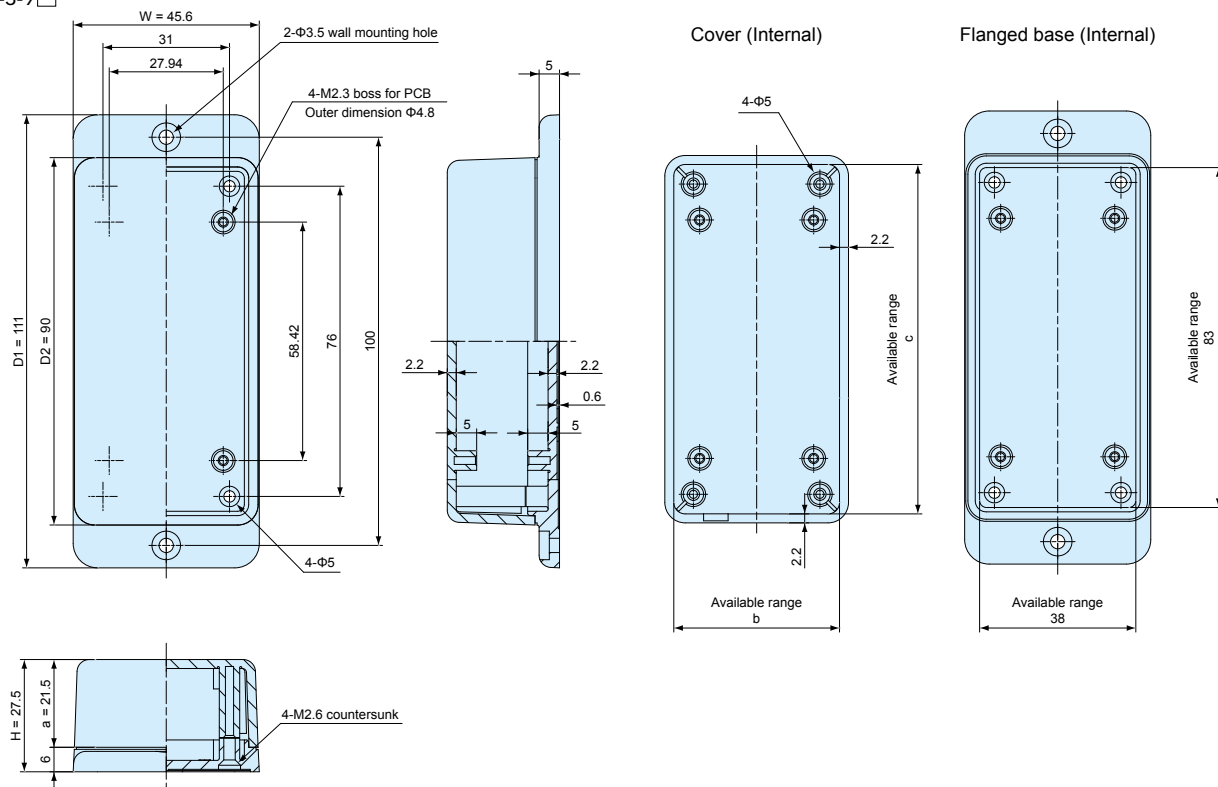


Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF5-2-7□	50.4	17	90.4	70	12	44.5	64.5
TWF5-3-7□	50.4	29.5	90.4	70	24.5	44	64
TWF5-4-7□	50.4	42	90.4	70	37	43	63

TWF Maße

TWF dimensions

TWF5-3-9□

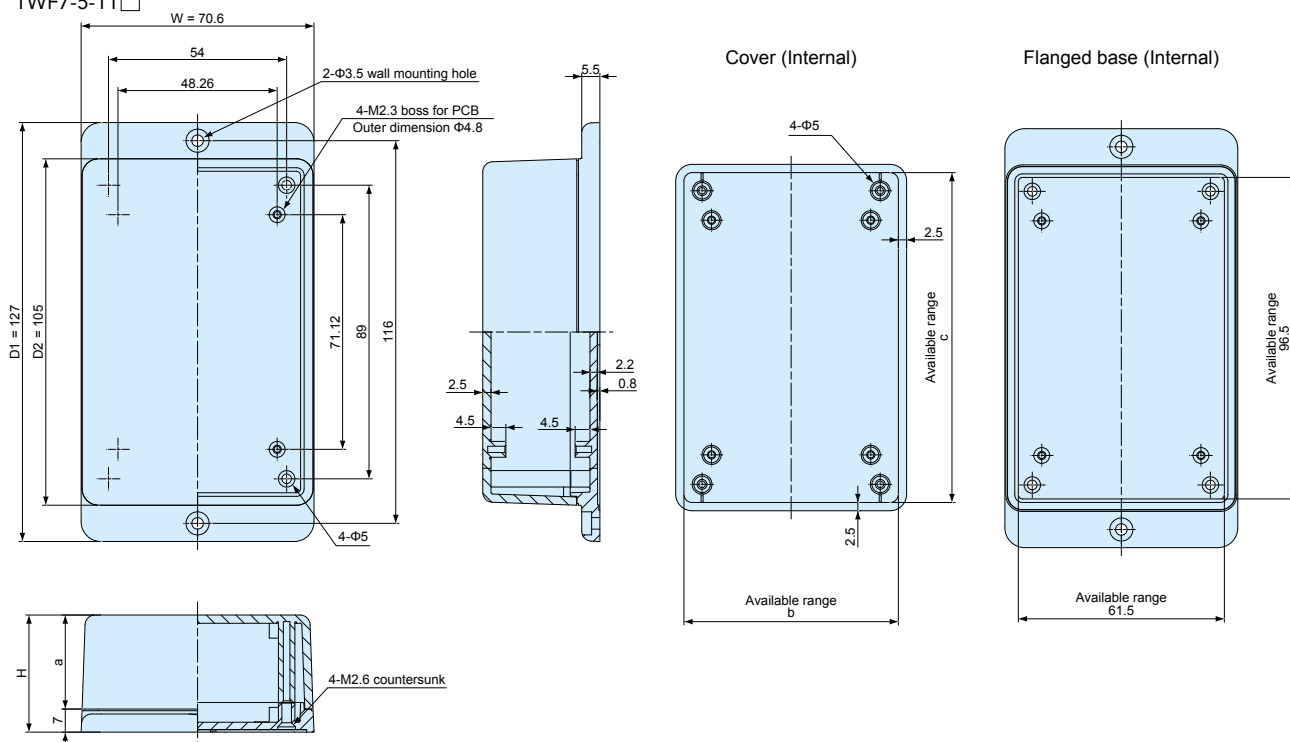


Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF5-3-9□	45.6	27.5	111	90	21.5	39	84

TWF7-2-11□

TWF7-4-11□

TWF7-5-11□



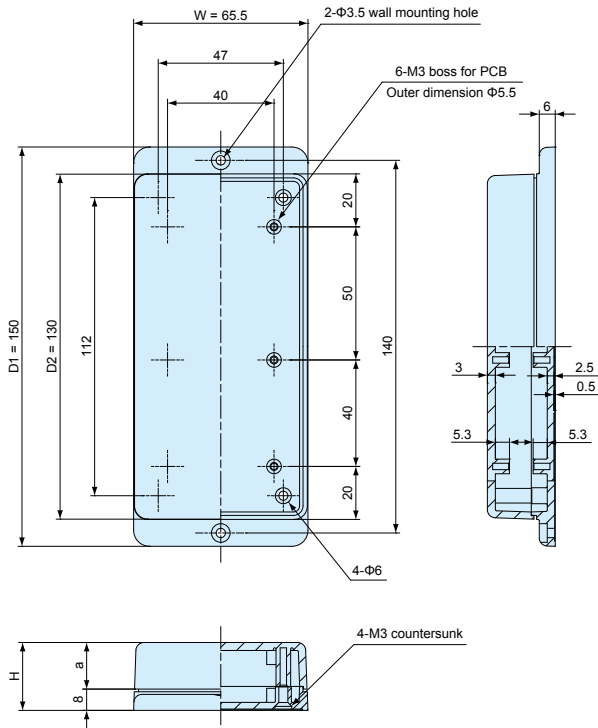
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TWF7-2-11□	70.6	20.5	127	105	13.5	63.5	98.5
TWF7-4-11□	70.6	35.5	127	105	28.5	62.5	97.5
TWF7-5-11□	70.6	50.5	127	105	43.5	61.5	96.5

TWF Maße

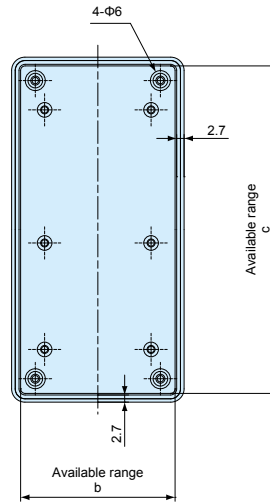
TWF dimensions

TWF7-3-13□

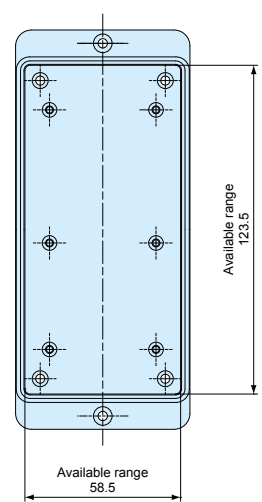
TWF7-5-13□



Cover (Internal)



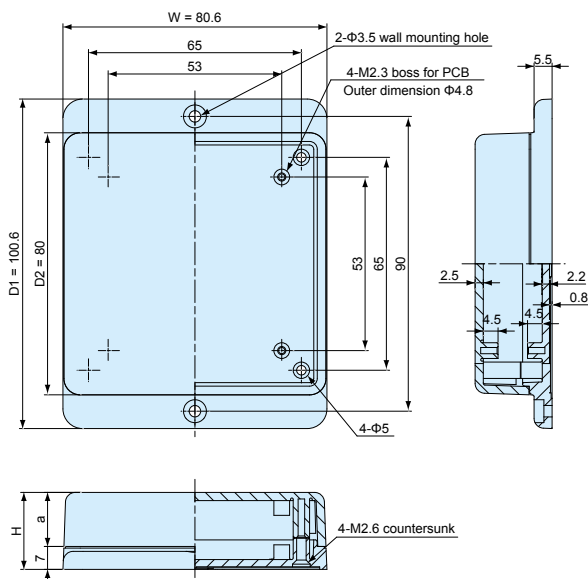
Flanged base (Internal)



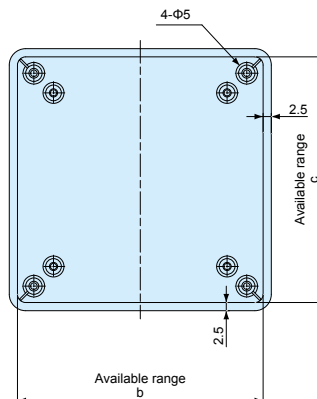
Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF7-3-13□	65.5	25.5	150	130	17.5	58	123
TWF7-5-13□	65.5	50	150	130	42	56.5	121.5

TWF8-2-8□

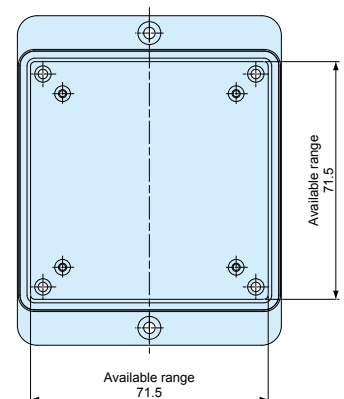
TWF8-4-8□



Cover (Internal)



Flanged base (Internal)



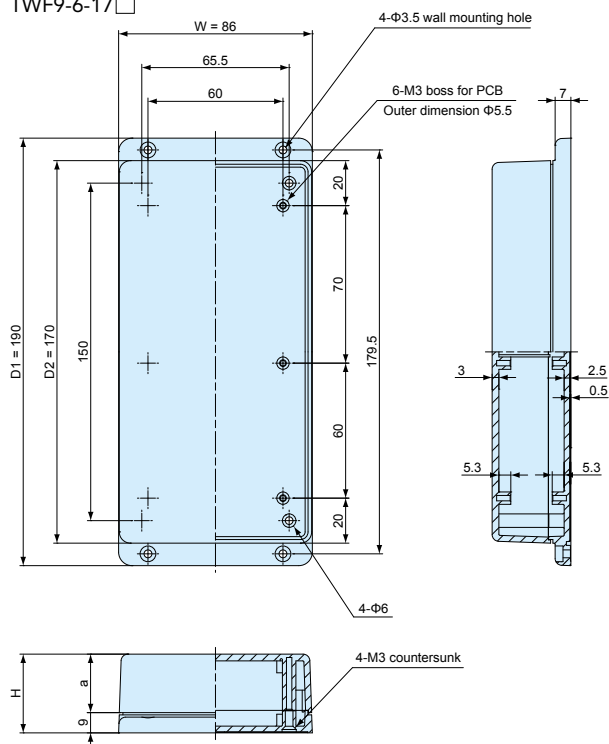
Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF8-2-8□	80.6	23.5	100.6	80	16.5	73.5	73.5
TWF8-4-8□	80.6	43.5	100.6	80	36.5	72	72

TWF Maße

TWF dimensions

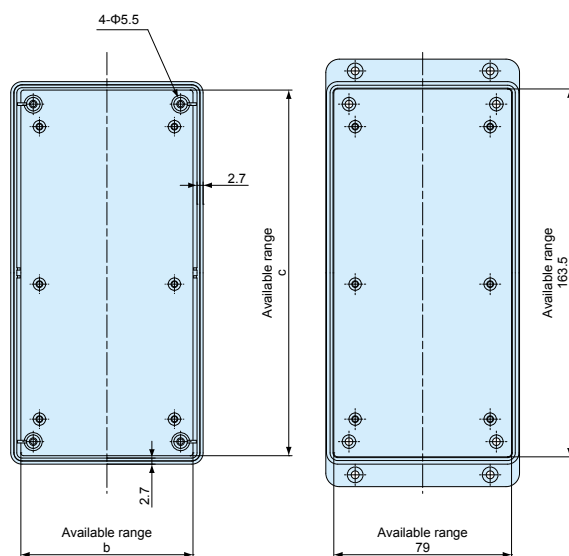
TWF9-4-17□

TWF9-6-17□



Cover (Internal)

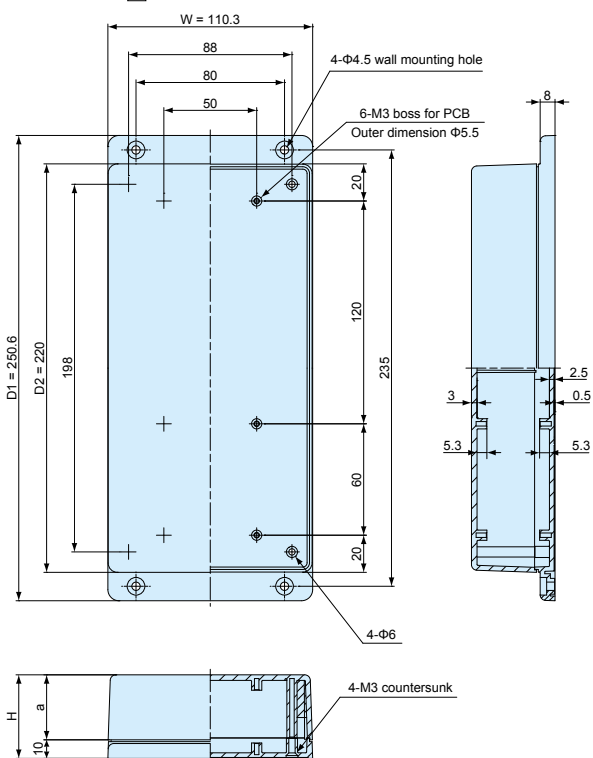
Flanged base (Internal)



Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF9-4-17□	86	35	190	170	26	76.5	162.5
TWF9-6-17□	86	60	190	170	51	76.5	161

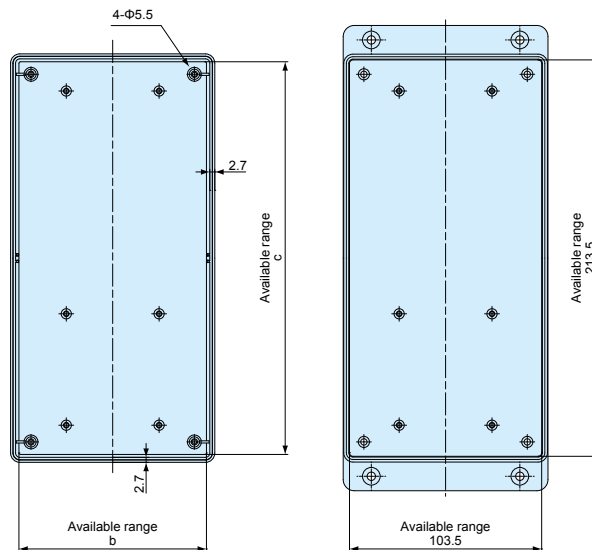
TWF11-5-22□

TWF11-8-22□



Cover (Internal)

Flanged base (Internal)



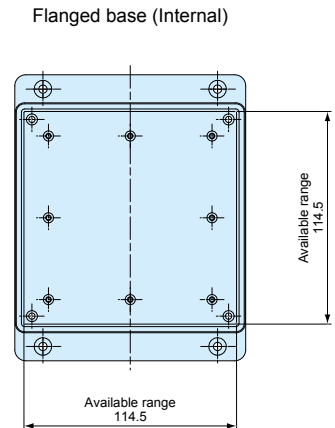
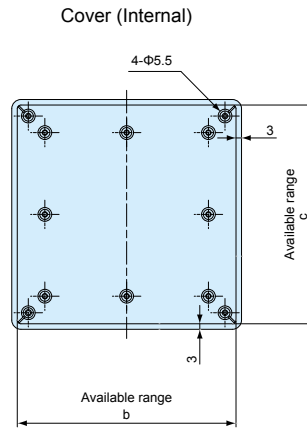
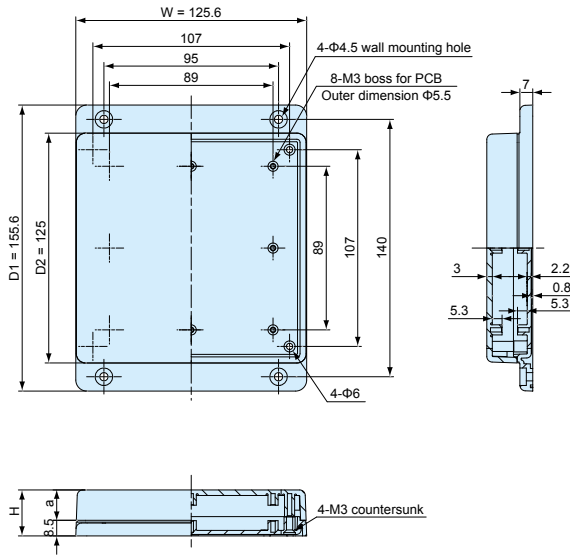
Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF11-5-22□	110.3	45	250.6	220	35	101	211.5
TWF11-8-22□	110.3	75	250.6	220	65	100	210

TWF Maße

TWF dimensions

TWF13-3-13□

TWF13-5-13□

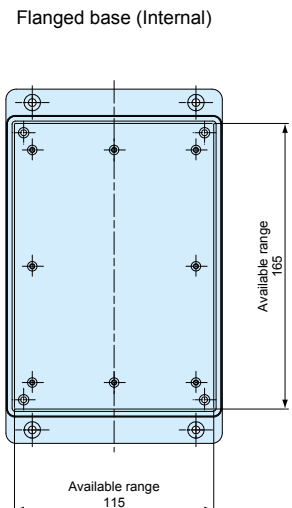
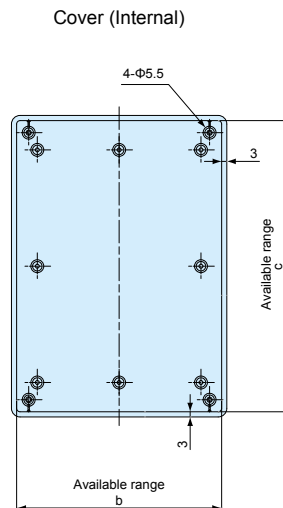
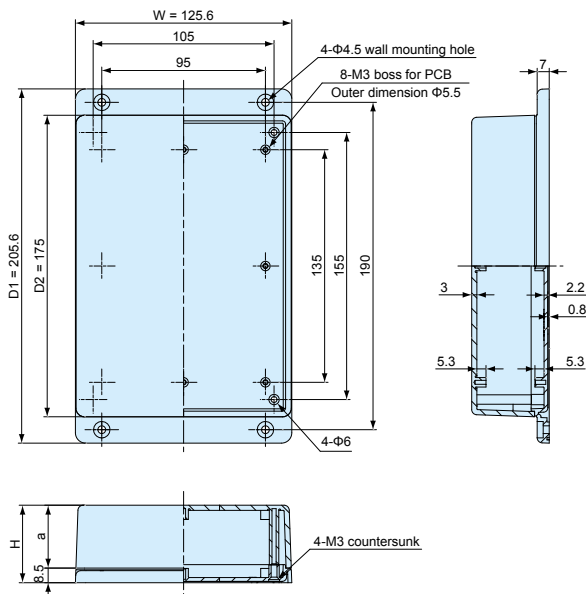


Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF13-3-13□	125.6	25	155.6	125	16.5	118	118
TWF13-5-13□	125.6	45	155.6	125	36.5	116.5	116.5

TWF13-3-18□

TWF13-5-18□

TWF13-7-18□



Best.-Nr. - Product no.	W	H	D1	D2	a	b	c
TWF13-3-18□	125.6	25	205.6	175	16.5	117.5	167.5
TWF13-5-18□	125.6	45	205.6	175	36.5	116.5	166.5
TWF13-7-18□	125.6	65	205.6	175	56.5	115	165



Technische Daten

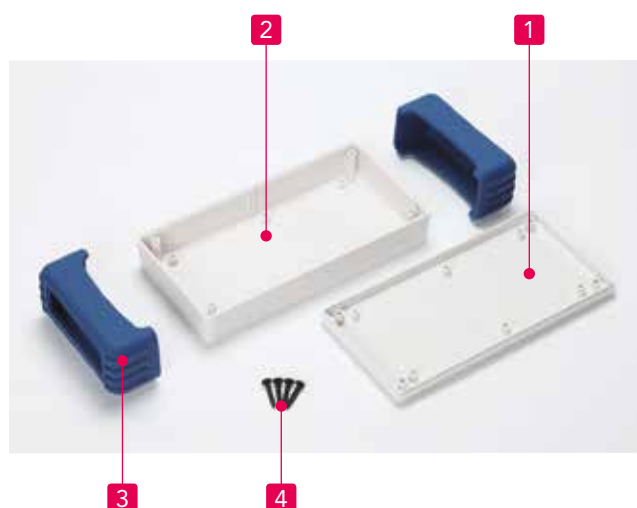
Temperaturbereich: -10°C ~ +60°C

Technical Data

Operating temperature: -10°C ~ +60°C

Serie TWS Kunststoffgehäuse mit Silikon-Schutzecken

Series TWS Plastic enclosure with silicone protector



- Universelles Kunststoffgehäuse mit schützenden Silikoncken. Die Silikoncken sind federnd, rutschhemmend und schützen Ihr Gerät vor Beschädigungen.
- Verfügbar in 11 Größen und 18 Farbkombinationen.
- Die Silikoncken werden zusammen mit dem Gehäuse verschraubt.
- Universal plastic enclosure with protective silicone protectors which functions both as an anti-slip grip and impact protection.
- Available in 11 sizes and selectable in 18 different color combinations.
- Plastic case and protective silicone with screw fastening.

Einzelteile

Nr.	Bezeichnung	Stück	Material : Farbe / Oberfläche
1	Deckel	1	ABS UL94HB : Lichtgrau • Schwarz - ABS UL94V-0 : Weiß
2	Boden	1	ABS UL94HB : Lichtgrau • Schwarz - ABS UL94V-0 : Weiß
3	Silikonenschutz	2	Silikon : Pink • Gelb • Grün • Navy • Lichtgrau • Schwarz
4	Schraube	4	Stahl M3-20 / Schwarz chromatiert

Components

No.	Part name	Pcs	Material : Color / Finish
1	Top cover	1	ABS UL94HB : Light gray • Black - ABS UL94V-0 : Off-white
2	Bottom cover	1	ABS UL94HB : Light gray • Black - ABS UL94V-0 : Off-white
3	Silicone protector	2	Silicone : Pink • Yellow • Green • Navy • Light gray • Black
4	Self tapping screw	4	Steel M3-20 / Black trivalent chromate

Zubehör (optional erhältlich) - Accessories (optional parts)



PCB Montageschraube
PCB mounting screw
EM-2.3



Abstandsbolzen
Tapping standoff
TPS series



Snap-in Batteriefach
Snap-in battery box
LD • LDN series

Farbcode - Color Type

Code	 BP Schwarz / Pink	 BY Schwarz / Gelb	 BG Schwarz / Grün	 BN Black / Navy	 BL Schwarz / Lichtgrau	 BB Schwarz / Schwarz
	 BP Black / Pink	 BY Black / Yellow	 BG Black / Green	 BN Black / Navy	 BL Black / Light gray	 BB Black / Black
Farbe - Color						
Code	 GP Lichtgrau / Pink	 GY Lichtgrau / Gelb	 GG Lichtgrau / Grün	 GN Lichtgrau / Navy	 GL Lichtgrau / Lichtgrau	 GB Lichtgrau / Schwarz
	 GP Light gray / Pink	 GY Light gray / Yellow	 GG Light gray / Green	 GN Light gray / Navy	 GL Light gray / Light gray	 GB Light gray / Black
Farbe - Color						
Code	 WP Weiß / Pink	 WY Weiß / Gelb	 WG Weiß / Grün	 WN Weiß / Navy	 WL Weiß / Hellgrau	 WB Weiß / Schwarz
	 WP Off-white / Pink	 WY Off-white / Yellow	 WG Off-white / Green	 WN Off-white / Navy	 WL Off-white / Light gray	 WB Off-white / Black
Farbe - Color						

■ Hinweis: Das Material ist bei den Farben unterschiedlich, Schwarz und Lichtgrau sind aus ABS UL94HB; Weiß ist aus ABS UL94V-0.

■ Note: Enclosure material varies depending on color. Black and Light gray are ABS UL94HB; Off-white is ABS UL94V-0.

ABS UL94HB (Schwarz - Black • Lichtgrau - Light gray)

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

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

Best.-Nr. Product no.	W	H	D	Kunststoffmaterial Plastic case material	Gewicht (g) Weight (g)
TWS 7-3-13□□	71(65)	32(25.6)	136(130)	ABS UL94HB	117
TWS 7-5-13□□	71(65)	56(50.1)	136(130)	ABS UL94HB	147.5
TWS 9-4-17□□	91.5(85.5)	41.5(35.5)	176(170)	ABS UL94HB	193
TWS 9-6-17□□	91.5(85.5)	66.5(60.5)	176(170)	ABS UL94HB	243
TWS11-5-22□□	116(110)	51.5(45.3)	226(220)	ABS UL94HB	325.5
TWS11-8-22□□	116(110)	81.5(75.3)	226(220)	ABS UL94HB	399
TWS13-3-13□□	131(125)	31(25)	131(125)	ABS UL94HB	222
TWS13-5-13□□	131(125)	51(45)	131(125)	ABS UL94HB	269.5
TWS13-3-18□□	131(125)	31(25)	181(175)	ABS UL94HB	271.5
TWS13-5-18□□	131(125)	51(45)	181(175)	ABS UL94HB	322
TWS13-7-18□□	131(125)	71(65)	181(175)	ABS UL94HB	371

■ () Klammerwert = Gehäuseabmessung. - ■ () value = enclosure dimension.

ABS UL94V-0 (Weiß - Off-white)

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

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

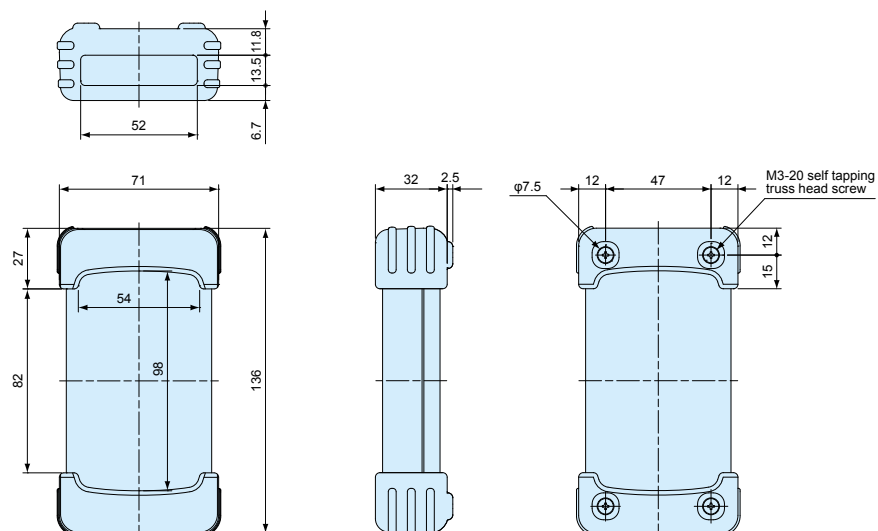
Best.-Nr. Product no.	W	H	D	Kunststoffmaterial Plastic case material	Gewicht (g) Weight (g)
TWS 7-3-13W□	71(65)	32(25.6)	136(130)	ABS UL94V-0	126
TWS 7-5-13W□	71(65)	56(50.1)	136(130)	ABS UL94V-0	163
TWS 9-4-17W□	91.5(85.5)	41.5(35.5)	176(170)	ABS UL94V-0	211
TWS 9-6-17W□	91.5(85.5)	66.5(60.5)	176(170)	ABS UL94V-0	266
TWS11-5-22W□	116(110)	51.5(45.3)	226(220)	ABS UL94V-0	356.5
TWS11-8-22W□	116(110)	81.5(75.3)	226(220)	ABS UL94V-0	438
TWS13-3-13W□	131(125)	31(25)	131(125)	ABS UL94V-0	243.5
TWS13-5-13W□	131(125)	51(45)	131(125)	ABS UL94V-0	294
TWS13-3-18W□	131(125)	31(25)	181(175)	ABS UL94V-0	293.5
TWS13-5-18W□	131(125)	51(45)	181(175)	ABS UL94V-0	353
TWS13-7-18W□	131(125)	71(65)	181(175)	ABS UL94V-0	407.5

■ () Klammerwert = Gehäuseabmessung. - ■ () value = enclosure dimension.

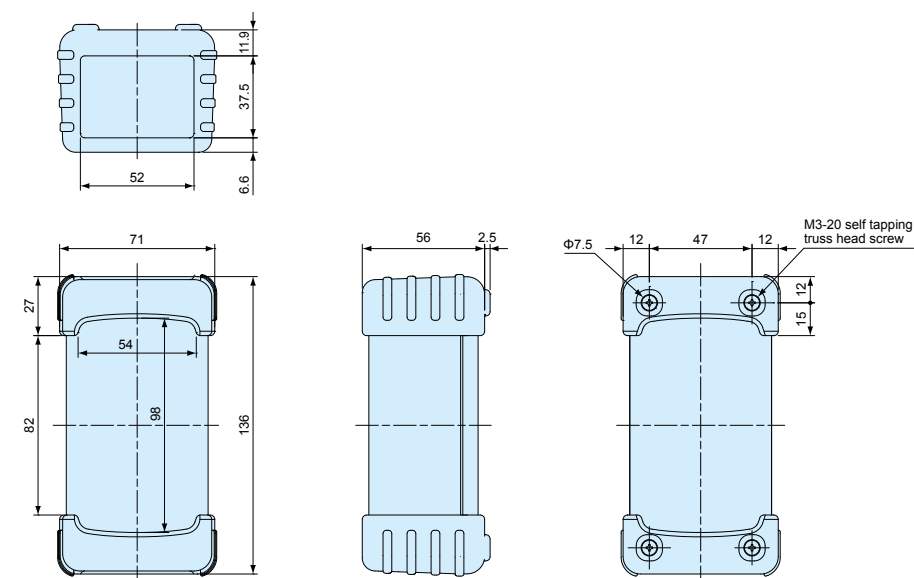
TWS Maße

TWS dimensions

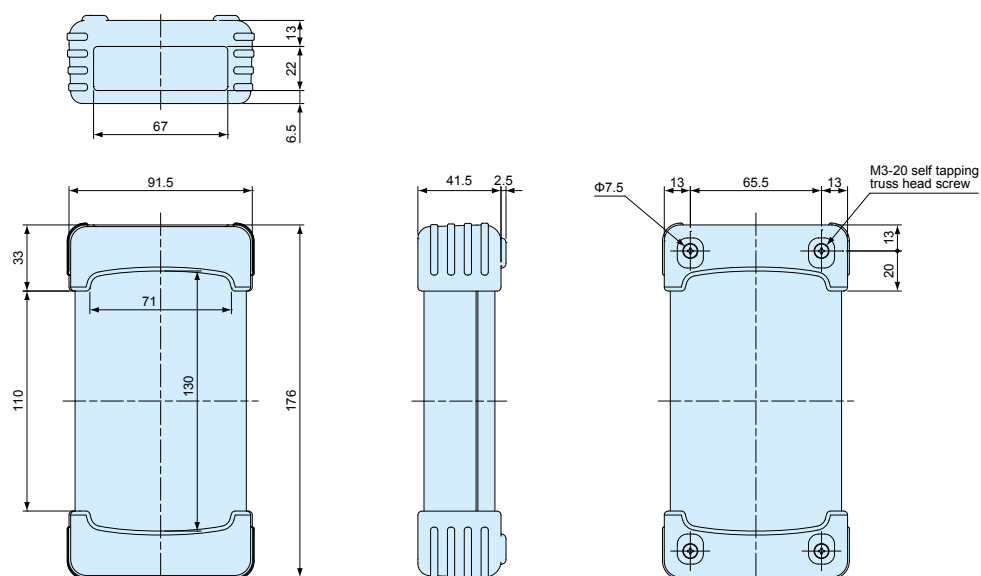
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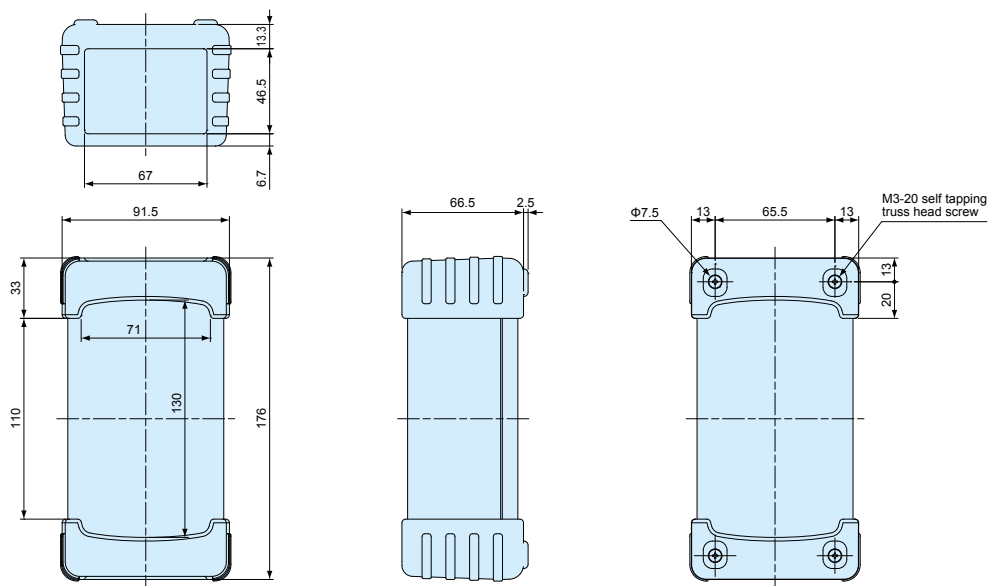
TWS7-5-13



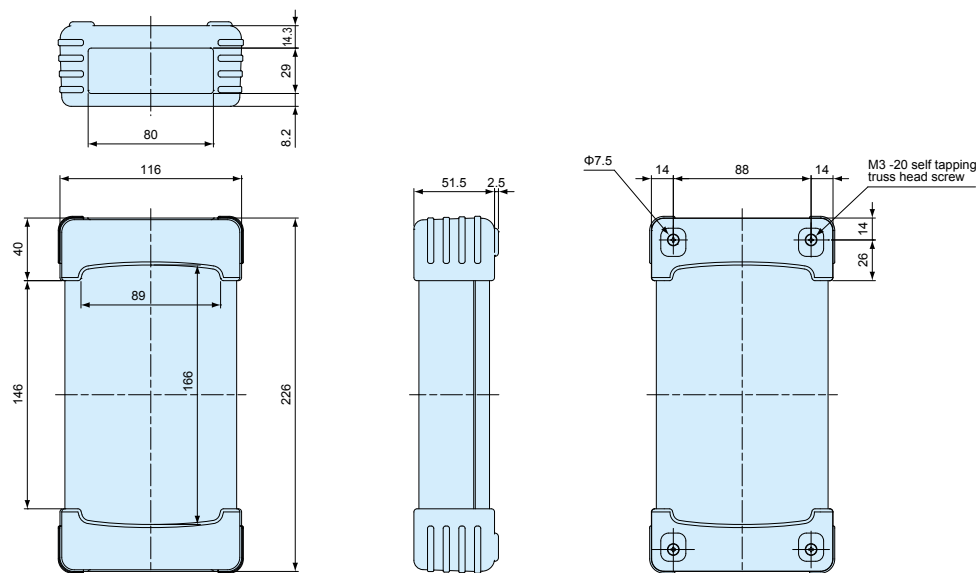
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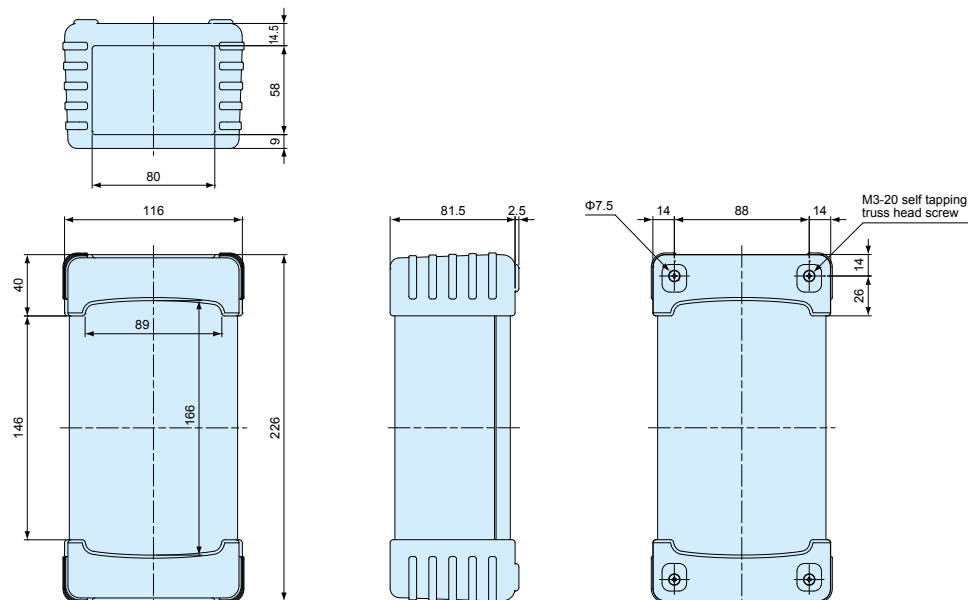
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TWS11-5-22



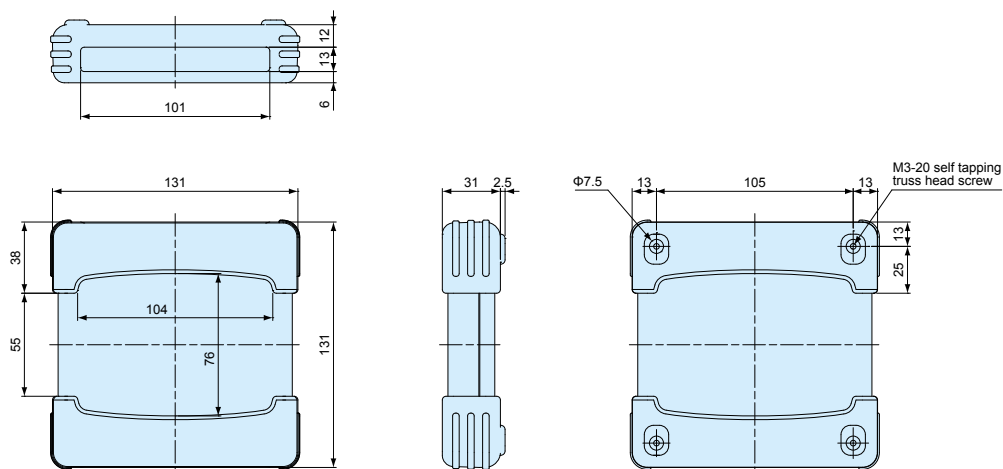
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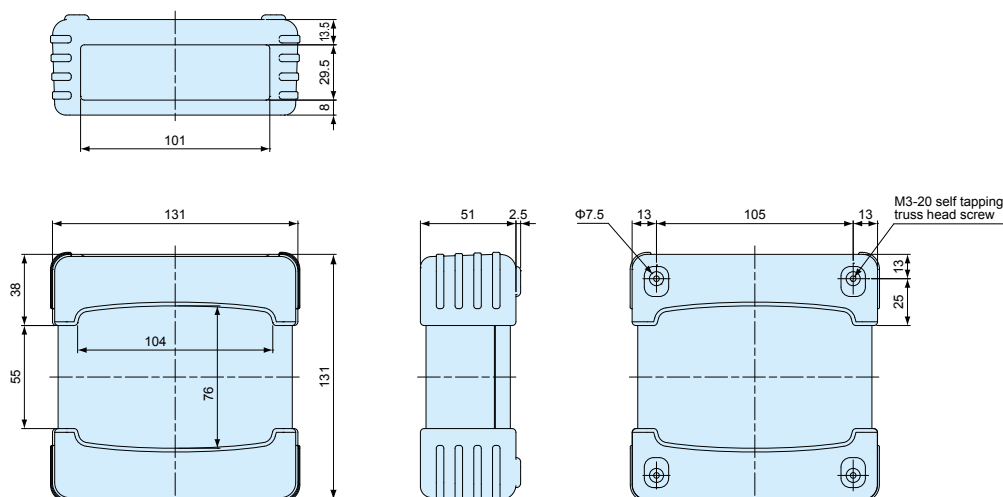
TWS Maße

TWS dimensions

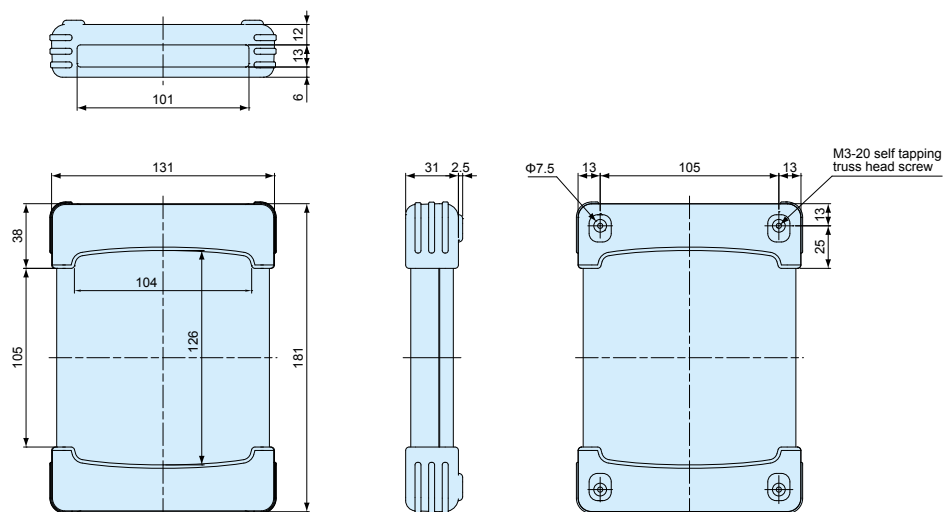
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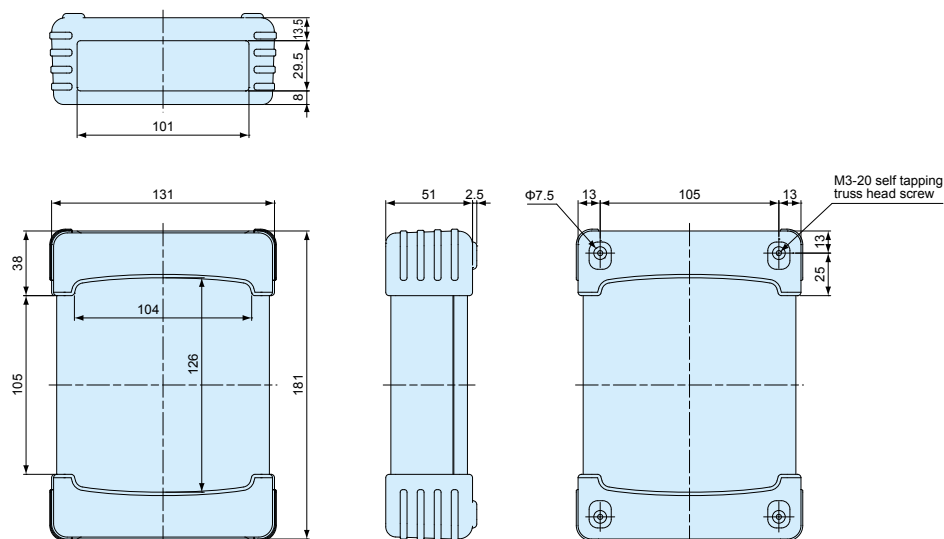
TWS13-5-13



TWS13-3-18



TWS13-5-18



TWS13-7-18

