CH20M
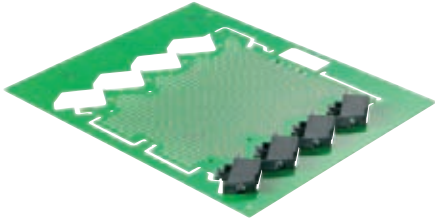# Technical data

LHZ

THR PCB terminal for 6 mm housings,
CH20M6 reflow-compatible,
Pole count: 1
solder pin length: 1.5 mm
Orientation: 90°

Technical data

Insulating material	LCP
Flammability class UL 94	V0
Rated voltage	250 V
Rated current	13 A

| Conductors that can be connected	
Clamping range	0.13 mm² - 2.5 mm²
Wire cross-section, AWG, min.	AWG 26 - AWG 14
Solid, min. H05(07) V-U	0.2 mm² - 2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm² - 2.5 mm²
With wire end ferrule, acc. to DIN 46 228/1, max.	0.2 mm² - 2.5 mm²

Rated data according to DIN IEC	
Rated voltage for surge voltage class / contamination degree III/3	250 V
Rated impulse voltage for surge voltage class / contamination degree III/3	4 kV
Rated voltage for surge voltage class / contamination degree III/2	320 V
Rated impulse voltage for surge voltage class / contamination degree III/2	4 kV
Rated voltage for surge voltage class / contamination degree II/2	500 V
Rated impulse voltage for surge voltage class / contamination degree II/2	4 kV

Note: Rated data according to UL – refer to the online data sheet

Dimensional drawing
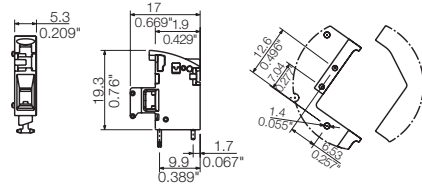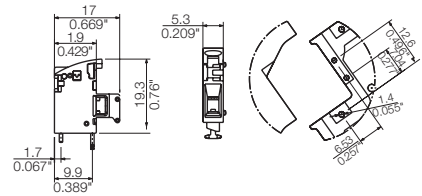
Version left

Version right

Derating curve

LHZ-SMT

A = 5 CH20M6 housings x 8 poles
B = 1.0 mm² (H05V-K1 / EN 60947-7-1)
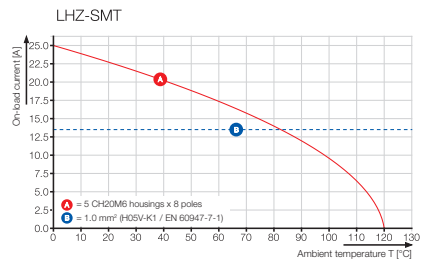
Ordering data

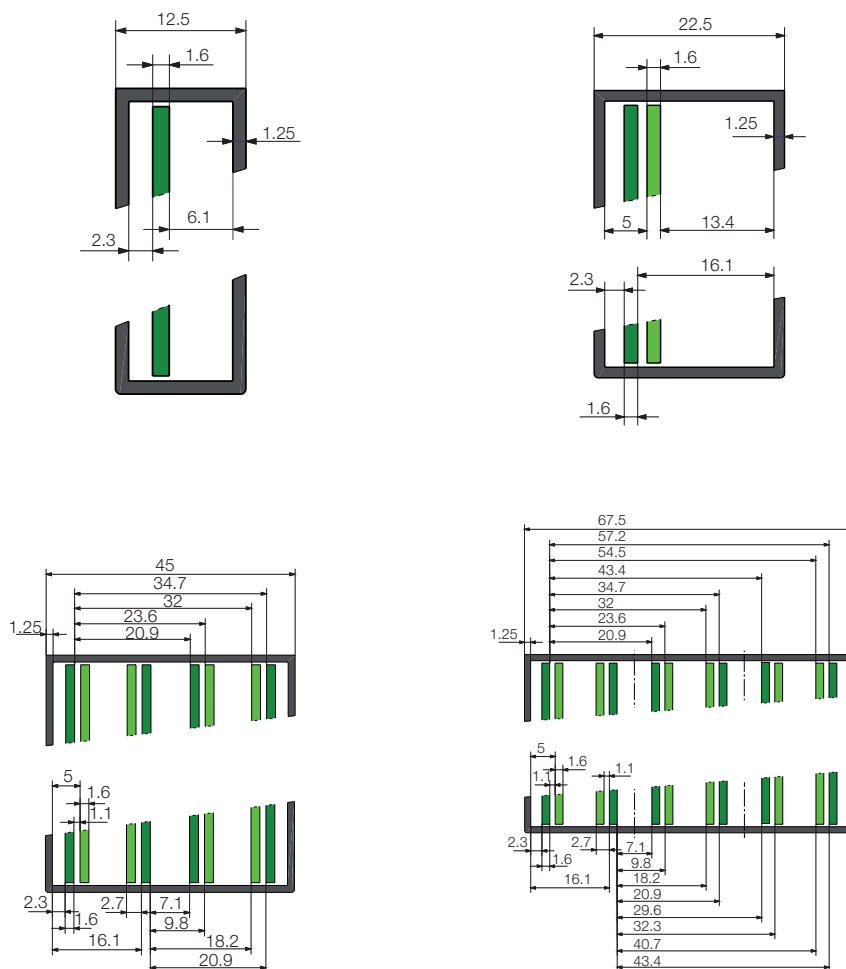| Type / Version	Qty.	Order No.
LHZ-SMT L 1.5SN BK RL Version left, Tape-on-Reel	432	**2418580000**
LHZ-SMT R 1.5SN BK RL Version right, Tape-on-Reel	432	**2418590000**

Circuit board positions in CH20M

Circuit board positions in CH20M				
Housing width (mm)	12.5	22.5	45	67.5
Number of circuit boards	1	1	2	3
Positions per circuit board	1	2	4	4

Dimensional drawing

Integrated coding in the BHZ/SHL-SMT connector system

- Clamping yoke screw connection – with WIRE READY, wire guard protection and plus/minus screw
- Integrated, captive coding (with „AutoSet" function) protects against false insertion
- Leading contact on the male headers
- Finger-safe on both sides

❶ Factory set

Coding can be set with one
of 16 possible configurations

❷ Connecting the female connector

❸ Male header coding
transferred to module
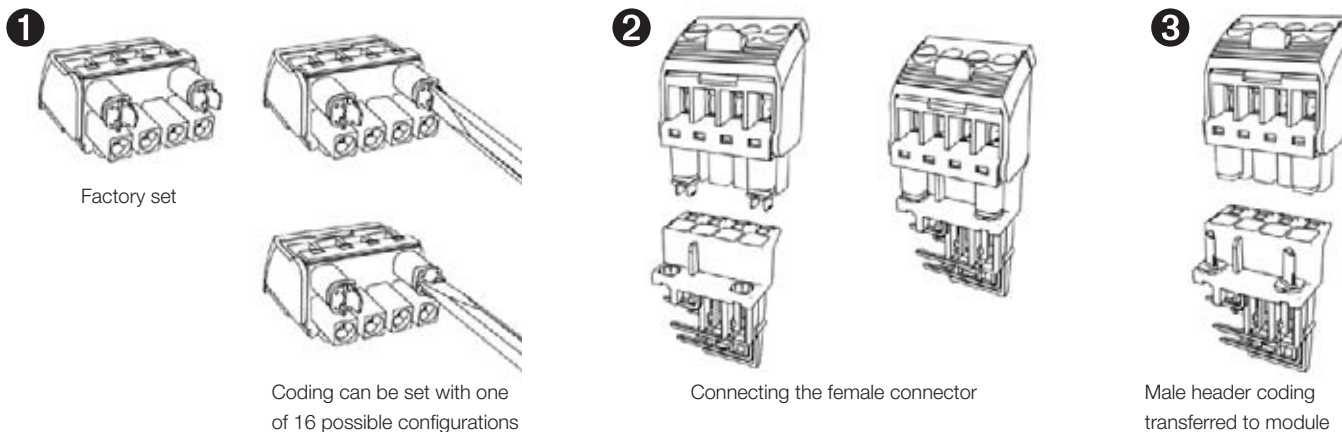
CH20M
Technical data

SHL-SMT

THR male header for modular housing CH20M12-67
Can be reflow soldered, resistant to high temperatures
Pin length of 1.5 mm:
LP in position 5.0 mm, reflow soldering
Pin length of 4,2 mm:
LP in position 2.3 mm, reflow soldering
Pin length of 5.9 mm:
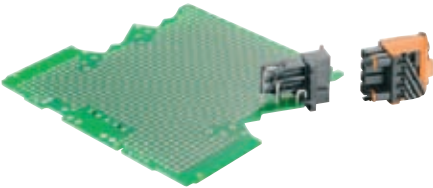LP in position 2.3 mm, wave soldering

Technical data

| Insulating material	LCP
Flammability class UL 94	V0
Rated voltage	250 V
Rated current	10 A

SHL-SMT 5.00/GL
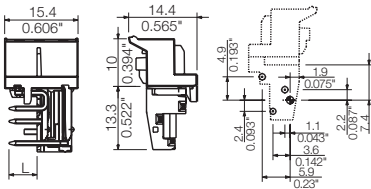

Version left
Box packaging

Ordering data

Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GL 4.2BX	2	156	**1069620000**
SHL-SMT 5.00/02GL 5.9BX	2	156	**1069750000**
SHL-SMT 5.00/03GL 1.5BX	3	120	**1063210000**
SHL-SMT 5.00/03GL 4.2BX	3	120	**1069630000**
SHL-SMT 5.00/03GL 5.9BX	3	120	**1069760000**
SHL-SMT 5.00/04GL 1.5BX	4	120	**1063220000**
SHL-SMT 5.00/04GL 4.2BX	4	120	**1069640000**
SHL-SMT 5.00/04GL 5.9BX	4	120	**1069770000**

Dimensional drawing

Version left
2-pole
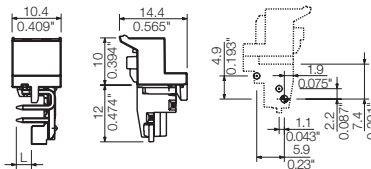
3-pole

SHL-SMT 5.00GL

Version left
Tape-on-reel

Ordering data

Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GL 4.2RL	2	260	**1069650000**
SHL-SMT 5.00/02GL 5.9RL	2	260	**1069780000**
SHL-SMT 5.00/03GL 1.5RL	3	175	**1063240000**
SHL-SMT 5.00/03GL 4.2RL	3	175	**1069660000**
SHL-SMT 5.00/03GL 5.9RL	3	175	**1069790000**
SHL-SMT 5.00/04GL 1.5RL	4	130	**1063250000**
SHL-SMT 5.00/04GL 4.2RL	4	130	**1069670000**
SHL-SMT 5.00/04GL 5.9RL	4	130	**1069810000**

Dimensional drawing

Version right
2-pole
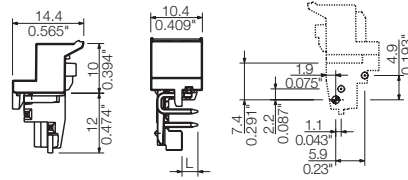
3-pole
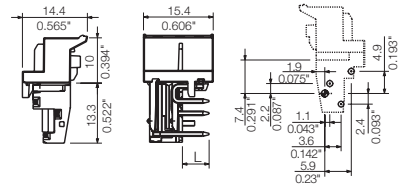
Rated data when used together with BHZxx female plug:
refer to page I.30

SHL-SMT 5.00/GR

Version right
Box packaging

SHL-SMT 5.00GR

Version right
Tape-on-reel

Ordering data

Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GR 4.2BX	2	156	**1069550000**
SHL-SMT 5.00/02GR 5.9BX	2	156	**1069680000**
SHL-SMT 5.00/03GR 1.5BX	3	120	**1063140000**
SHL-SMT 5.00/03GR 4.2BX	3	120	**1069560000**
SHL-SMT 5.00/03GR 5.9BX	3	120	**1069690000**
SHL-SMT 5.00/04GR 1.5BX	4	120	**1063150000**
SHL-SMT 5.00/04GR 4.2BX	4	120	**1069570000**
SHL-SMT 5.00/04GR 5.9BX	4	120	**1069710000**

Ordering data

Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GR 4.2RL	2	260	**1069580000**
SHL-SMT 5.00/02GR 5.9RL	2	260	**1069720000**
SHL-SMT 5.00/03GR 1.5RL	3	175	**1063170000**
SHL-SMT 5.00/03GR 4.2RL	3	175	**1069590000**
SHL-SMT 5.00/03GR 5.9RL	3	175	**1069730000**
SHL-SMT 5.00/04GR 1.5RL	4	130	**1063180000**
SHL-SMT 5.00/04GR 4.2RL	4	130	**1069610000**
SHL-SMT 5.00/04GR 5.9RL	4	130	**1069740000**

Dimensional drawing

Version left
4-pole

Dimensional drawing

Version right
4-pole
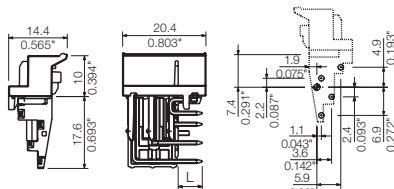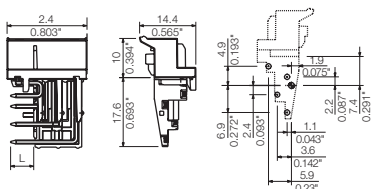
CH20M
Technical data

BHZ
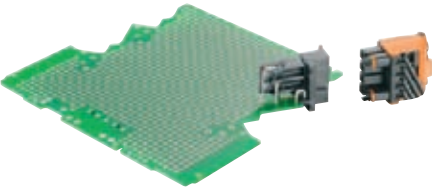
Female plug for modular housing CH20M12-67 5.00 mm, clamping-yoke connection, integrated coding, release lever can be colour coded

Release lever, orange

Technical data

Insulating material	PA
Flammability class UL 94	V0
Rated voltage	250 V
Rated current	10 A

Conductors that can be connected	
Clamping range	0.13 mm² - 3.31 mm²
Wire cross-section, AWG, min.	AWG 26 - AWG 14
Solid, min. H05(07) V-U	0.2 mm² - 2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm² - 2.5 mm²
With wire end ferrule, acc. to DIN 46 228/1, max.	0.2 mm² - 2.5 mm²
With wire-end ferrule with collar, DIN 46 228/4, min.	0.2 mm² - 2.5 mm²

Rated data according to DIN IEC	
Rated current, Max. pole count (Tu=20 °C)	10 A
Rated current, Max. pole count (Tu=40 °C)	9 A
Rated voltage for surge voltage class / contamination degree III/3	250 V
Rated impulse voltage for surge voltage class / contamination degree III/3	4 kV
Rated impulse voltage for surge voltage class / contamination degree III/2	4 kV
Rated voltage for surge voltage class / contamination degree III/2	320 V
Rated voltage for surge voltage class / contamination degree II/2	400 V
Rated impulse voltage for surge voltage class / contamination degree II/2	4 kV

Note: Rated data according to UL – refer to the online data sheet

Dimensional drawing

L+ 7.5
L + 0.295"
L
14.4
0.569"
20.9
0.824"
30.8
1.212"

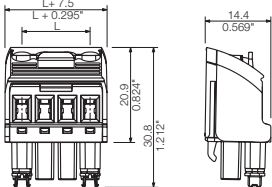## Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/OR	2	150	**1063260000**
BHZ 5.00/03/90LH BK/OR	3	180	**1063270000**
BHZ 5.00/04/90LH BK/OR	4	78	**1063280000**

Derating curve

BHZ 5.00/../90 - SHL-SMT 5.00/..G

On-load current [A]
Ambient temperature T [°C]
A = 5 CH20M22 housings x 16 poles
B = 2.5. mm² (H07V-K2.5 / IEC 60947-7-1)

BHZ 5.00/../90 - SHL-SMT 5.00/..G

On-load current [A]
Ambient temperature T [°C]
A = 1 CH20M22 housing x 16 poles
B = 2.5. mm² (H07V-K2.5 / IEC 60947-7-1)
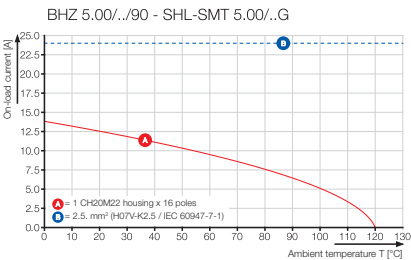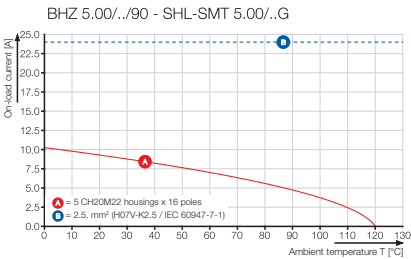
BHZ 5.00/90 BK/BK

Release lever, black

BHZ 5.00/90 BK/BL

Release lever, blue

Accessories

Marker for release lever

Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/BK	2	150	**1069330000**
BHZ 5.00/03/90LH BK/BK	3	108	**1069340000**
BHZ 5.00/04/90LH BK/BK	4	78	**1069350000**

Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/BL	2	150	**1069360000**
BHZ 5.00/03/90LH BK/BL	3	108	**1069370000**
BHZ 5.00/04/90LH BK/BL	4	78	**1069380000**

Ordering data

Type / Version	Poles	Qty.	Order No.
ESG 6.6/11 BHZ 5.00/02	2	200	**1082490000**
ESG 6.6/15 BHZ 5.00/03	3	200	**1082520000**
ESG 6.6/20 BHZ 5.00/04	4	200	**1082540000**

CH20M
Technical data

SR-SMD
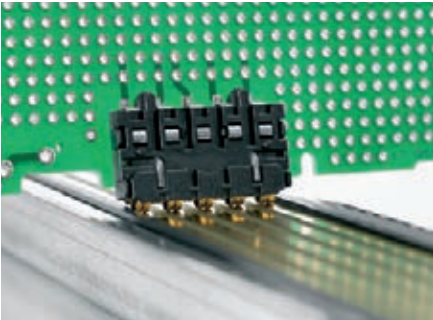
Bus contact block
Reflow-compatible, resistant to high temperatures,
5-pole, for rail bus
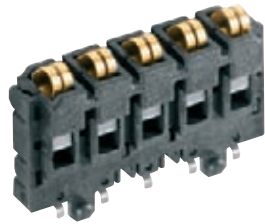
Bus contact for CH20M6

Technical data

Insulating material	LCP
Flammability class UL 94	V0
Rated voltage	63 V AC
Rated current	2 A

Dimensional drawing
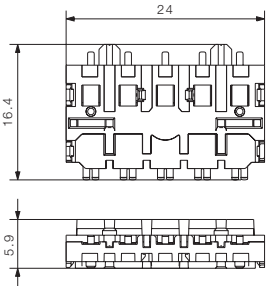
For CH20M6
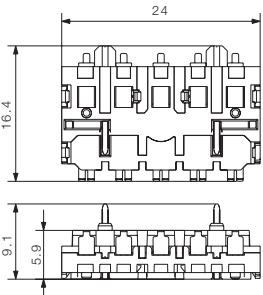
With centre solder flange for CH20M12-67
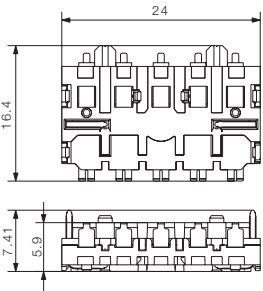
With solder flange for CH20M12-67

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90 AU BK BX	72	**1155840000**

SR-SMD
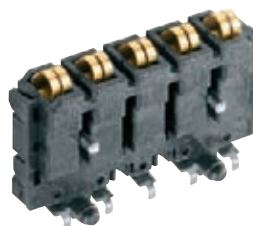
Bus contact with centre solder flange
for CH20M12-67

SR-SMD

Bus contact with solder flange
for CH20M12-67

Accessories, bus connection

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90LFM AU BK BX	72	**1155870000**

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90LF AU BK BX	72	**1155890000**

Bus PCB

Type / Version	Qty.	Order No.
CH20M BUS 4.50/05 AU/250	10	**1248220000**
CH20M BUS 4.50/05 AU/500	10	**1248230000**
CH20M BUS 4.50/05 AU/750	5	**1248240000**

Support section, bus circuit board

Type / Version	Qty.	Order No.
CH20M BUS-PROFIL TS 35X15/250	10	**1248180000**
CH20M BUS-PROFIL TS 35X15/500	10	**1248190000**
CH20M BUS-PROFIL TS 35X15/750	5	**1248210000**
CH20M BUS-PROFIL TS 35X7.5/250	5	**1248150000**
CH20M BUS-PROFIL TS 35X7.5/500	5	**1248160000**
CH20M BUS-PROFIL TS 35X7.5/750	5	**1248170000**

Note: length specification /XXX = 250, 500 or 750 mm

Hoods and end plates

Type / Version	Qty.	Order No.
CH20M BUS-ADP TS 35/250	10	**1248250000**
CH20M BUS-ADP TS 35/500	10	**1248260000**
CH20M BUS-ADP TS 35/750	5	**1248270000**
CH20M BUS-AP LI TS 35X7.5 & 15	50	**1193160000**
CH20M BUS-AP RE TS 35X7.5 & 15	50	**1193170000**

Note: ADP = cover profile
AP = end plate

OMNIMATE Housing
Component housing WAVEBOX

The proven standard housing for the mounting rail

The characteristic "WAVE" design of the WAVEBOX provides optimal ventilation when used in a full electrical cabinet – especially for small component widths and high power losses.

The electronics component can be removed in the field during servicing. Optionally, a spacious front element is available which can only be opened using a tool.

Weidmüller's reliable, wire-insert connection technology is available with either the screw connection or PUSH IN spring connection mechanisms.

Easy to operate

The transparent hinged cover protects the display and operational areas. It can be custom printed.
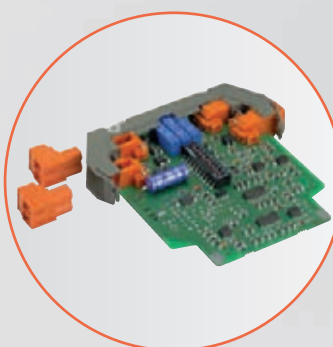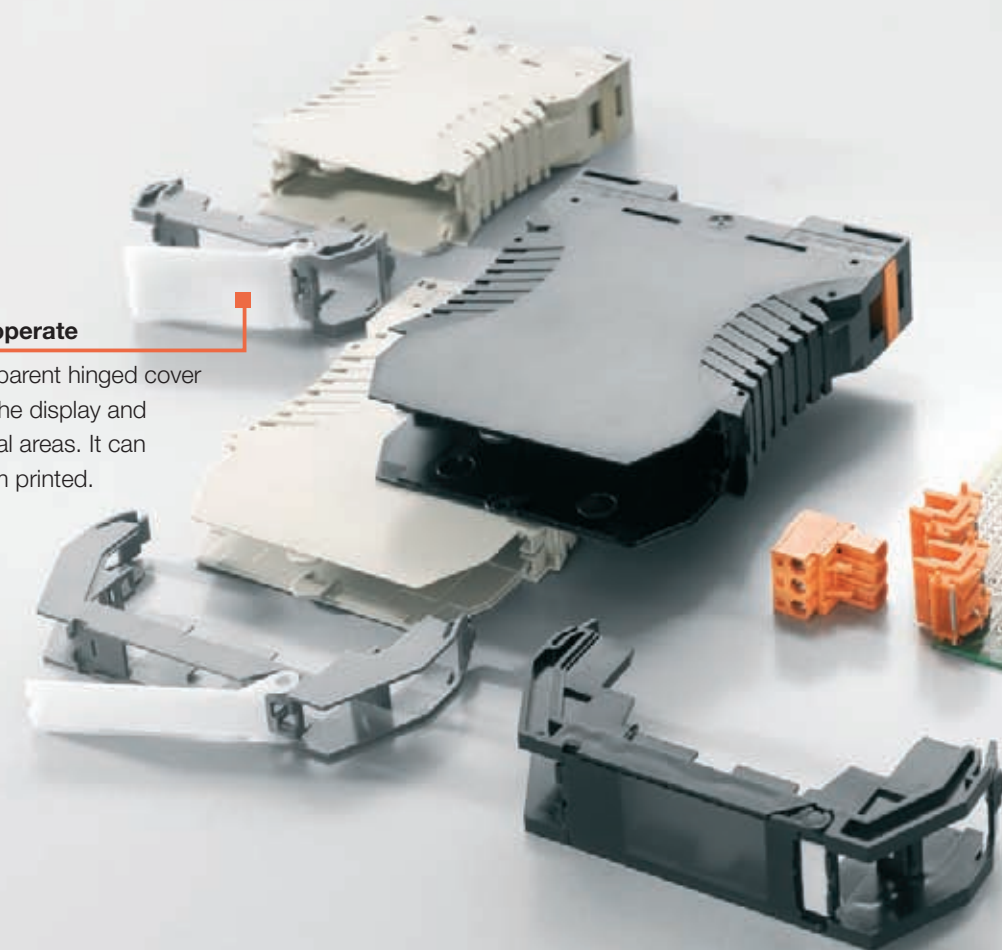
Easy to install

The connector and the electronics can be removed – this speeds up installation and service.

Easy to select

A large, spacious variant with a fixed head can be used instead of the tool-free pullable front element.

Ready to use

The WAVEBOX provides you with the right solution by simply combining 4 widths, 2 front elements and 2 connection levels. A small S version supplements the product line.

Easy to service

During service or maintenance, the component can be removed without taking apart the bottom section. Optionally available with fixed front element as well.

Reliable

Permanent, good connections: our proven PCB connectivity technology is supplemented by cross-connectors from our terminal block product line.

Easy to connect

Bridges allow you to implement joint power feeds or signal distribution up to 24 A without any extra wiring work.

OMNIMATE Housing
Component housing WAVEBOX

The WAVEBOX electronics housing system is available in 4 widths. The electronics components can be removed along with the front element while in the field. Also available with a spacious fixed-mount front element.

Width	Type	Reference kit	Catalogue pages
12.5 mm	WBL 12.5	1070770000 WBL 12.5 S-Kit	I.38
17.5 mm	WBL 17.5	1070790000 WBL 17.5 S-Kit	I.39
22.5 mm	WBS 22.5	1070820000 WBS 22.5 S-Kit	I.40
22.5 mm	WBL 22.5	1070840000 WBL 22.5 S-Kit	I.41
22.5 mm	WBL 22.5 FH	1070860000 WBL FH 22.5 S-Kit	I.42
45 mm	WBL 45	1070880000 WBL 45 S-Kit	I.43

Colour

■ Similar to RAL 9011

■ Similar to RAL 7024

□ Similar to RAL 7035
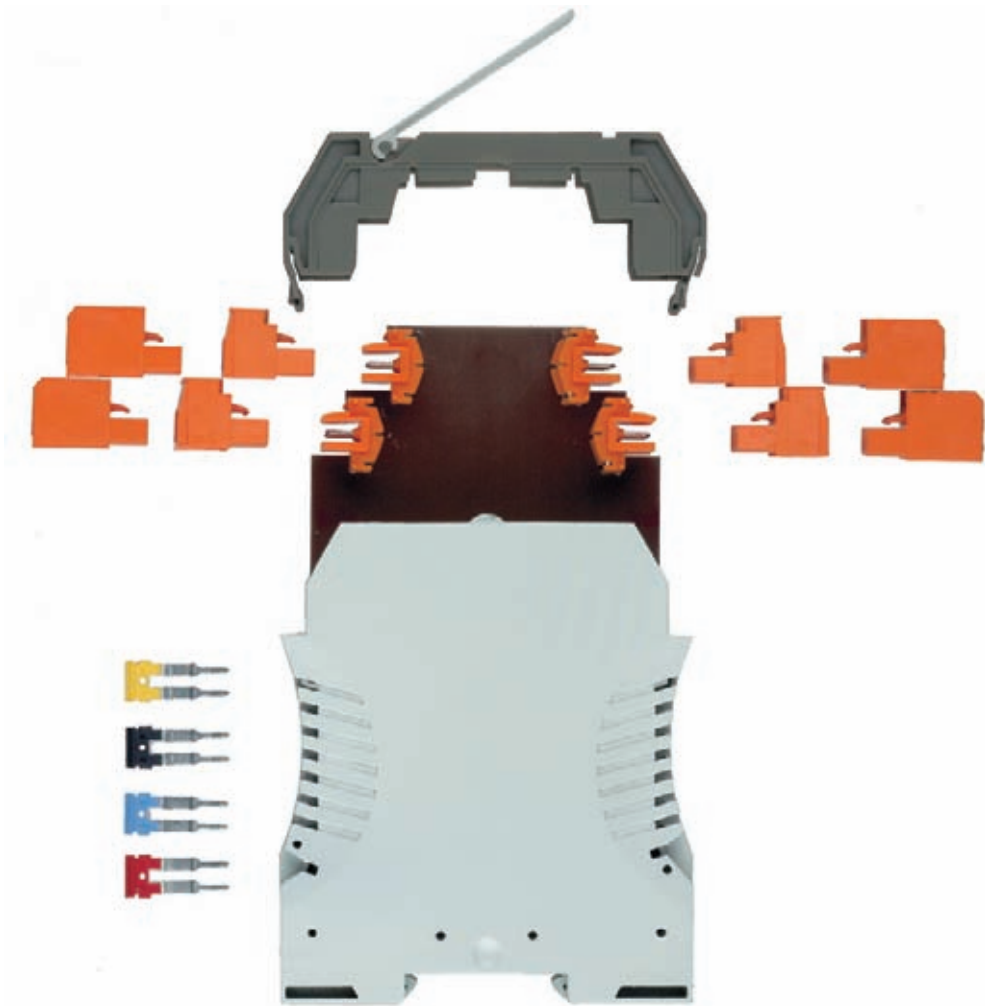
Housing variants	Description / Type	Design-Optionen

WBL 12.5

WAVEBOX Large, 12.5 mm

Features:
- 12.5 mm wide
- 2 x 2 or 4 x 2 connections 2.5 mm²
- Connector 400 V / 17 A (IEC)
- Hinged cover (transparent)

- pad printing
- markable
- machinable
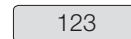
WBL 17.5

WAVEBOX Large, 12.5 mm

Features:
- 17.5 mm wide
- 2 x 3 or 4 x 3 connections 2.5 mm²
- Connector 400 V / 17 A (IEC)
- Hinged cover (transparent)

- pad printing
- markable
- machinable
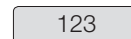
WBL 22.5

WAVEBOX Large, 12.5 mm

Features:
- 22.5 mm wide
- 2 x 3 or 4 x 3 connections 2.5 mm²
- Connector 400 V / 17 A (IEC)
- Hinged cover (transparent)
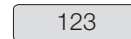
- pad printing
- markable
- machinable
- Optionally available with attached, spacious front element

WBS 22.5

WAVEBOX Small, 12.5 mm

Features:
- 22.5 mm wide
- 2 x 3 connections 2.5 mm²
- Connector 400 V / 17 A (IEC)
- Hinged cover (transparent)

- pad printing
- markable
- machinable
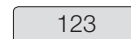
WBL 45

WAVEBOX Large, 45 mm

Features:
- 45 mm wide
- Up to 8 x 3 connections, 2.5 mm²
- Connector 400 V / 17 A (IEC)
- Hinged cover (transparent)
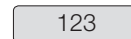
- pad printing
- markable
- machinable
- Optionally available with attached, spacious front element

Accessories

Connection system / Accessories

Standard connector
- Standard, pluggable female connector
- 400 V / 17 A (IEC)
- 300 V / 15 A (UL)
- Cross-connector 2 x 24 A (IEC)

- Clamping yoke screw connection
- PUSH IN spring connection

---

pad printing,   123   markable,   ● ● ● machinable

WAVEBOX
Technical data

WAVEBOX

A WAVEBOX 12.5 housing consists of:
- 1 housing base part with clip-on foot
- 1 top part
- 4 male connectors
- 1-4 female connectors

Description

The male headers (in left and right versions depending on the construction) are soldered onto the PCB and then snapped into the head piece. This unit is then inserted in the bottom section. A proper connection is ensured by the integrated anti-twist protection. Caps can be used to cover the unused ports. A bottom housing section that can be cross-connected is also available (with ZQV2.5N/2 cross-connector).

Female plugs are available in different versions (screw or spring connection) and can be coded.

The hinged, transparent top plate on the head piece and the bottom housing section can both be laser inscribed. The top plate enables easy access for calibration.

I

Dimensional drawing

WAVEBOX 12.5

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	12.5 / 92.4 / 112.4
Dimensions W x L x H (w. TS32)		
No. of connections	total	8
	left / right / top	4 / 4
Access for calibration		Movable top plate
Max. power loss		2.00 W /40°C
Number of PCB per module		1
Thickness of PCB		1.0 (± 0.1) mm
Ingress predection class		IP 20
Tightening torque range		0.4…0.5 Nm
Material		PC
Flammability class UL 94		V0
Colour of insulating material		Head piece is grey (similar to RAL 7035)/Bottom section is grey (similar to RAL 7039)
Clampable conductors (H05V/H07V)		**Clamp. yoke connection** / **Tension clamp connection**
Solid	mm²	0.2…2.5 / 0.2…2.5
Flexible	mm²	0.2…2.5 / 0.2…2.5
Max. conductor AWG		AWG 26…AWG 12 / AWG 26…AWG 12
Note		

Ordering data

Individual parts		Type	Qty.	Order No
Bottom section with snap-on foot	cannot be cross-conn.	WAVEBOX L 12.5	18	**8426530000**
	can be cross-connected	WAVEBOX L 12.5 QV	18	**8426540000**
Top part with transparent top plate mounted		TOP UNIT L 12.5	18	**8426550000**
Ordering data connection method				
Pin block, 3-pole	orange, right			
	orange, left			
Pin block, 2-pole	orange, right	SLEH 5.08/2 RE12.5 2.4 SN OR BX	100	**8427390000**
	orange, left	SLEH 5.08/2 LI12.5 2.4 SN OR BX	100	**8427400000**
Socket block, clamp. yoke conn.	orange, 3-pole			
	black, 3-pole			
	orange, 2-pole	BLZ 5.08/02/180 SN OR BX	100	**1526460000**
	black, 2-pole	BLZ 5.08/02/180 SN BK BX	100	**1526410000**
Socket block , tension clamp connection	orange, 3-pole			
	black, 3-pole			
	orange, 2-pole	BLZF 5.08/02/180 SN OR BX	100	**1707460000**
	black, 2-pole	BLZF 5.08/02/180 SN BK BX	100	**1707690000**
Female plug, PUSH IN	orange, 2-pole	BLF 5.08/02/180 SN OR BX	180	**1013680000**
	black, 2-pole	BLF 5.08/02/180 SN BK BX	180	**1013430000**
Note				

Accessories

Cross connection 2-pole (pluggable)		Type	Qty.	Order No
	red	ZQV 2.5N/2 RT	60	**1717900000**
	blue	ZQV 2.5N/2 BL	60	**1717990000**
	yellow	ZQV 2.5N/2 GE	60	**1693800000**
Other accessories				
Coding element	black	BLZ-KO SW	50	**1545710000**
Screw cap		CAP 2 WAVEBOX 12.5	20	**8428130000**
Self-assembly PCB				
Note		Full housing available as set on request.		

WAVEBOX

A WAVEBOX 17.5 housing consists of:
- 1 housing base part with clip-on foot
- 1 top part
- 4 male connectors
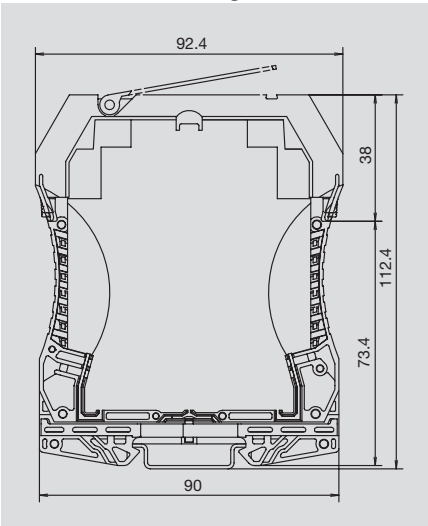- 1-4 female connectors

Description

The male headers (in left and right versions depending on the construction) are soldered onto the PCB and then snapped into the head piece. This unit is then inserted in the bottom section. A proper connection is ensured by the integrated anti-twist protection. Caps can be used to cover the unused ports. A bottom housing section that can be cross-connected is also available (with ZQV2.5N/2 cross-connector).

Female plugs are available in different versions (screw or spring connection) and can be coded.

The hinged, transparent top plate on the head piece and the bottom housing section can both be laser inscribed. The top plate enables easy access for calibration.

Dimensional drawing

92.4 / 38 / 112.4 / 73.4 / 90

WAVEBOX 17.5

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	17.5 / 92.4 / 112.4
Dimensions W x L x H (w. TS32)		
No. of connections	total	12
	left / right / top	6 / 6
Access for calibration		Movable top plate
Max. power loss		2.00 W /40°C
Number of PCB per module		1
Thickness of PCB		1.0 (± 0.1) mm
Ingress predection class		IP 20
Tightening torque range		0.4…0.5 Nm
Material		PC
Flammability class UL 94		V0
Colour of insulating material		Head piece is grey (similar to RAL 7035)/Bottom section is grey (similar to RAL 7039)
Clampable conductors (H05V/H07V)		**Clamp. yoke connection** / **Tension clamp connection**
Solid	mm²	0.2…2.5 / 0.2…2.5
Flexible	mm²	0.2…2.5 / 0.2…2.5
Max. conductor AWG		AWG 26…AWG 12 / AWG 26…AWG 12
Note		

Ordering data

Individual parts		Type	Qty.	Order No
Bottom section with snap-on foot	cannot be cross-conn.	WAVEBOX L 17.5	12	8426560000
	can be cross-connected	WAVEBOX L 17.5 QV	12	8426570000
Top part with transparent top plate mounted		TOP UNIT L 17.5	12	8426580000
Ordering data connection method				
Pin block, 3-pole	orange, right	SLEH 5.08/3 RE22.5 2.4 SN OR BX	100	8449220000
	orange, left	SLEH 5.08/3 LI22.5 2.4 SN OR BX	100	8449230000
Pin block, 2-pole	orange, right			
	orange, left			
Socket block, clamp. yoke conn.	orange, 3-pole	BLZ 5.08/03/180 SN OR BX	100	1526560000
	black, 3-pole	BLZ 5.08/03/180 SN BK BX	100	1526510000
	orange, 2-pole			
	black, 2-pole			
Socket block , tension clamp connection	orange, 3-pole	BLZF 5.08/03/180 SN OR BX	100	1707470000
	black, 3-pole	BLZF 5.08/03/180 SN BK BX	100	1707700000
	orange, 2-pole			
	black, 2-pole			
Female plug, PUSH IN	orange, 3-pole	BLF 5.08/03/180 SN OR BX	120	1013690000
	black, 3-pole	BLF 5.08/03/180 SN BK BX	120	1013440000
Note				

Accessories

Cross connection 2-pole (pluggable)		Type	Qty.	Order No
	red	ZQV 2.5N/2 RT	60	1717900000
	blue	ZQV 2.5N/2 BL	60	1717990000
	yellow	ZQV 2.5N/2 GE	60	1693800000
Other accessories				
Coding element	black	BLZ-KO SW	50	1545710000
Screw cap		CAP WAVEBOX L22.5/17.5	20	8428120000
Self-assembly PCB				
Note		Full housing available as set on request.		

WAVEBOX

A WAVEBOX S 22.5 housing consists of:
• 1 housing base part with clip-on foot
• 1 top part
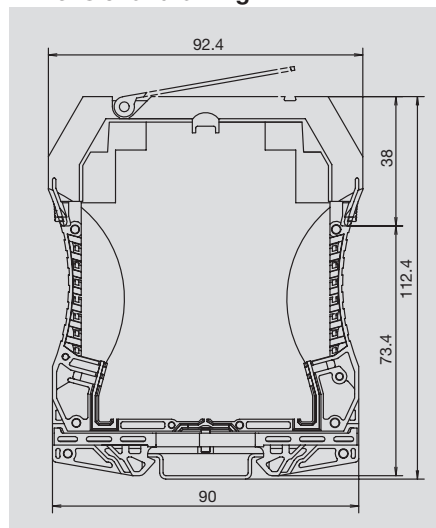• 2 male connectors
• 1-2 female connectors

Description

The male headers (in left and right versions depending on the construction) are soldered onto the PCB and then snapped into the head piece. This unit is then inserted in the bottom section. A proper connection is ensured by the integrated anti-twist protection. Caps can be used to cover the unused ports. A bottom housing section that can be cross-connected is also available (with ZQV2.5N/2 cross-connector).

Female plugs are available in different versions (screw or spring connection) and can be coded.

The hinged, transparent top plate on the head piece and the bottom housing section can both be laser inscribed. The top plate enables easy access for calibration.

Dimensional drawing

72
22.2
92.4
69.2
71

WAVEBOX S 22.5

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	22.5 / 72 / 92.4
Dimensions W x L x H (w. TS32)		
No. of connections	total	6
	left / right / top	3 / 3
Access for calibration		Movable top plate
Max. power loss		2.00 W /40°C
Number of PCB per module		1
PCB contacting		soldered connection, directly
Thickness of PCB		1.0 (± 0.1) mm
Ingress predection class		IP 20
Tightening torque range		0.4…0.5 Nm
Material		PC
Flammability class UL 94		V0
Colour of insulating material		Head piece is grey (similar to RAL 7035)/Bottom section is grey (similar to RAL 7039)
Clampable conductors (H05V/H07V)		**Clamp. yoke connection** / **Tension clamp connection**
Solid	mm²	0.2…2.5 / 0.2…2.5
Flexible	mm²	0.2…2.5 / 0.2…2.5
Max. conductor AWG		AWG 26…AWG 12 / AWG 26…AWG 12
Note		

Ordering data

Individual parts		Type	Qty.	Order No
Bottom section with snap-on foot	cannot be cross-conn.	WAVEBOX S 22.5	18	**8426530000**
	can be cross-connected	WAVEBOX S 22.5 QV	18	**8426540000**
Top part with transparent top plate mounted		TOP UNIT S 22.5	18	**8426550000**
Ordering data connection method				
Pin block, 3-pole	orange, right	SLEH 5.08/3 RE22.5 2.4 SN OR BX	100	**8426620000**
	orange, left	SLEH 5.08/3 LI22.5 2.4 SN OR BX	100	**8426630000**
Pin block, 2-pole	orange, right			
	orange, left			
Socket block, clamp. yoke conn.	orange, 3-pole	BLZ 5.08/03/180 SN OR BX	100	**1526560000**
	black, 3-pole	BLZ 5.08/03/180 SN BK BX	100	**1526510000**
	orange, 2-pole			
	black, 2-pole			
Socket block , tension clamp connection	orange, 3-pole	BLZF 5.08/03/180 SN OR BX	100	**1707470000**
	black, 3-pole	BLZF 5.08/03/180 SN BK BX	100	**1707700000**
	orange, 2-pole			
	black, 2-pole			
Female plug, PUSH IN	orange, 3-pole	BLF 5.08/03/180 SN OR BX	120	**1013690000**
	black, 3-pole	BLF 5.08/03/180 SN BK BX	120	**1013440000**
Note				

Accessories

Cross connection 2-pole (pluggable)		Type	Qty.	Order No
	red	ZQV 2.5N/2 RT	60	**1717900000**
	blue	ZQV 2.5N/2 BL	60	**1717990000**
	yellow	ZQV 2.5N/2 GE	60	**1693800000**
Other accessories				
Coding element	black	BLZ-KO SW	50	**1545710000**
Screw cap		CAP WAVEBOX L22.5/17.5	20	**8428120000**
Self-assembly PCB		WB S PCB SAMPLE	1	**4074820000**
Note		Full housing available as set on request.		

WAVEBOX

A WAVEBOX L 22.5 housing consists of:
- 1 housing base part with clip-on foot
- 1 top part
- 4 male connectors
- 1-4 female connectors

Description

The male headers (in left and right versions depending on the construction) are soldered onto the PCB and then snapped into the head piece. This unit is then inserted in the bottom section. A proper connection is ensured by the integrated anti-twist protection. Caps can be used to cover the unused ports. A bottom housing section that can be cross-connected is also available (with ZQV2.5N/2 cross-connector).

Female plugs are available in different versions (screw or spring connection) and can be coded.

The hinged, transparent top plate on the head piece and the bottom housing section can both be laser inscribed. The top plate enables easy access for calibration.

Dimensional drawing

WAVEBOX L 22.5

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	17.5 / 92.4 / 112.4
Dimensions W x L x H (w. TS32)		
No. of connections	total	12
	left / right / top	6 / 6
Access for calibration		Movable top plate
Max. power loss		2.00 W /40°C
Number of PCB per module		1
Thickness of PCB		1.0 (± 0.1) mm
Ingress predection class		IP 20
Tightening torque range		0.4…0.5 Nm
Pollution severity		
Material		PC
Flammability class UL 94		V0
Colour of insulating material		Head piece is grey (similar to RAL 7035)/Bottom section is grey (similar to RAL 7039)
Clampable conductors (H05V/H07V)		**Clamp. yoke connection** / **Tension clamp connection**
Solid	mm²	0.2…2.5 / 0.2…2.5
Flexible	mm²	0.2…2.5 / 0.2…2.5
Max. conductor AWG		AWG 26…AWG 12 / AWG 26…AWG 12
Note		

Ordering data

Individual parts		Type	Qty.	Order No
Bottom section with snap-on foot	cannot be cross-conn.	WAVEBOX L 22.5	10	**8426470000**
	can be cross-connected	WAVEBOX L 22.5 QV	10	**8426480000**
Top part with transparent top plate mounted		TOP UNIT L 22.5	10	**8426490000**
Ordering data connection method				
Pin block, 3-pole	orange, right	SLEH 5.08/3 RE22.5 2.4 SN OR BX	100	**8426620000**
	orange, left	SLEH 5.08/3 LI22.5 2.4 SN OR BX	100	**8426630000**
Pin block, 2-pole	orange, right			
	orange, left			
Socket block, clamp. yoke conn.	orange, 3-pole	BLZ 5.08/03/180 SN OR BX	100	**1526560000**
	black, 3-pole	BLZ 5.08/03/180 SN BK BX	100	**1526510000**
	orange, 2-pole			
	black, 2-pole			
Socket block , tension clamp connection	orange, 3-pole	BLZF 5.08/03/180 SN OR BX	100	**1707470000**
	black, 3-pole	BLZF 5.08/03/180 SN BK BX	100	**1707700000**
	orange, 2-pole			
	black, 2-pole			
Female plug, PUSH IN	orange, 3-pole	BLF 5.08/03/180 SN OR BX	120	**1013690000**
	black, 3-pole	BLF 5.08/03/180 SN BK BX	120	**1013440000**
Note				

Accessories

Cross connection 2-pole (pluggable)		Type	Qty.	Order No
	red	ZQV 2.5N/2 RT	60	**1717900000**
	blue	ZQV 2.5N/2 BL	60	**1717990000**
	yellow	ZQV 2.5N/2 GE	60	**1693800000**
Other accessories				
Coding element	black	BLZ-KO SW	50	**1545710000**
Screw cap		CAP WAVEBOX L22.5/17.5	20	**8428120000**
Self-assembly PCB		WB L PCB SAMPLE	1	**4074640000**
Note		Full housing available as set on request.		

WAVEBOX

Technical data

WAVEBOX

A WBL 22.5 FH housing consists of:
• 1 housing base part with clip-on foot
• 1 top part
• 2 male connectors
• 1-2 female connectors

WAVEBOX L 22.5 FH

Description

The male headers (in left and right versions depending on the construction) are soldered onto the PCB and then snapped into the head piece. This unit is then inserted in the bottom section. A proper connection is ensured by the integrated anti-twist protection.

Caps can be used to cover the unused ports. A bottom housing section that can be cross-connected is also available (with ZQV2.5N/2 cross-connector).

Female plugs are available in different versions (screw or spring connection) and can be coded.

Only one tool is needed to open up the top.

The usable surface on the PCB is more than 8000 mm²

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	22.5 / 108 / 129
Dimensions W x L x H (w. TS32)		
No. of connections	total	12
	left / right / top	6 / 6
Access for calibration		detachable top plate
Max. power loss		4 W /40°C (Horizontal mounting on terminal rail)
Number of PCB per module		1
Thickness of PCB		1.0 (± 0.2) mm
Ingress predection class		IP 20
Tightening torque range		0.4…0.5 Nm
Pollution severity		
Material		PC
Flammability class UL 94		V0
Colour of insulating material		Head piece is grey (similar to RAL 7035)/Bottom section is grey (similar to RAL 7039)
Clampable conductors (H05V/H07V)		Clamp. yoke connection	Tension clamp connection
Solid	mm²	0.2…2.5	0.2…2.5
Flexible	mm²	0.2…2.5	0.2…2.5
Max. conductor AWG		AWG 26…AWG 12	AWG 26…AWG 12
Note			

Ordering data

Individual parts		Type	Qty.	Order No
Bottom section with snap-on foot	cannot be cross-conn.	WAVEBOX L 22.5	10	**8426470000**
	can be cross-connected	WAVEBOX L 22.5 QV	10	**8426480000**
Top part with transparent top plate mounted		WBL 22.5 TU GY	10	**1964640000**
Ordering data connection method				
Pin block, 3-pole	orange, right	SLEH 5.08/3 RE22.5 2.4 SN OR BX	100	**8426620000**
	orange, left	SLEH 5.08/3 LI22.5 2.4 SN OR BX	100	**8426630000**
Pin block, 2-pole	orange, right			
	orange, left			
Socket block, clamp. yoke conn.	orange, 3-pole	BLZ 5.08/03/180 SN OR BX	100	**1526560000**
	black, 3-pole	BLZ 5.08/03/180 SN BK BX	100	**1526510000**
	orange, 2-pole			
	black, 2-pole			
Socket block , tension clamp connection	orange, 3-pole	BLZF 5.08/03/180 SN OR BX	100	**1707470000**
	black, 3-pole	BLZF 5.08/03/180 SN BK BX	100	**1707700000**
	orange, 2-pole			
	black, 2-pole			
Female plug, PUSH IN	orange, 3-pole	BLF 5.08/03/180 SN OR BX	120	**1013690000**
	black, 3-pole	BLF 5.08/03/180 SN BK BX	120	**1013440000**
Note				

Dimensional drawing

Accessories

Cross connection 2-pole (pluggable)		Type	Qty.	Order No
	red	ZQV 2.5N/2 RT	60	**1717900000**
	blue	ZQV 2.5N/2 BL	60	**1717990000**
	yellow	ZQV 2.5N/2 GE	60	**1693800000**
Other accessories				
Coding element	black	BLZ-KO SW	50	**1545710000**
Screw cap		CAP WAVEBOX L22.5/17.5	20	**8428120000**
Self-assembly PCB				
Note		Full housing available as set on request.		

I

WAVEBOX

A WBL 45 FH housing consists of:
- 1 housing base part with clip-on foot
- 1 top part
- 4 male connectors
- 1-4 female connectors

Description

The male headers (in left and right versions depending on the construction) are soldered onto the PCB and then snapped into the head piece. This unit is then inserted in the bottom section. A proper connection is ensured by the integrated anti-twist protection.
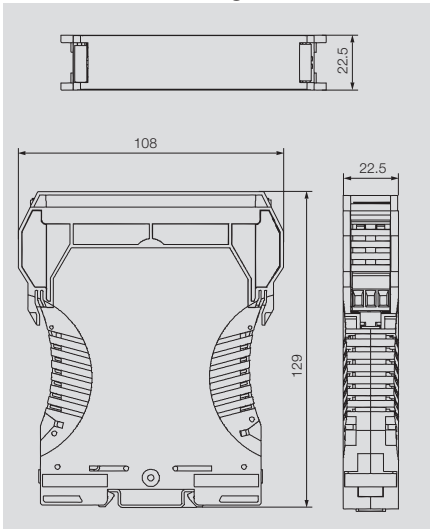
Caps can be used to cover the unused ports. Female plugs are available in different versions (screw or spring connection) and can be coded.

Only one tool is needed to open up the top.

The usable surface on the PCB is more than 8000 mm^2

Dimensional drawing

WAVEBOX L 45 FH

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	45 / 108 / 129
Dimensions W x L x H (w. TS32)		
No. of connections	total	12
	left / right / top	6 / 6
Access for calibration		detachable top plate
Max. power loss		7 W /40°C (Horizontal mounting on terminal rail)
Number of PCB per module		1
Thickness of PCB		1.0 (± 0.2) mm
Ingress predection class		IP 20
Tightening torque range		0.4…0.5 Nm
Pollution severity		
Material		PC
Flammability class UL 94		V0
Colour of insulating material		Head piece is grey (similar to RAL 7035)/Bottom section is grey (similar to RAL 7039)

Clampable conductors (H05V/H07V)		Clamp. yoke connection	Tension clamp connection
Solid	mm^2	0.2…2.5	0.2…2.5
Flexible	mm^2	0.2…2.5	0.2…2.5
Max. conductor AWG		AWG 26…AWG 12	AWG 26…AWG 12
Note			

Ordering data

Individual parts		Type	Qty.	Order No
Bottom section with snap-on foot	cannot be cross-conn.			
	can be cross-connected	WBL 45 BU QV GY	10	**1964650000**
Top part with transparent top plate mounted		WBL 45 TU GY	10	**1964660000**
Ordering data connection method				
Pin block, 3-pole	orange, right	SLEH 5.08/3 RE22.5 2.4 SN OR BX	100	**8426620000**
	orange, left	SLEH 5.08/3 LI22.5 2.4 SN OR BX	100	**8426630000**
Pin block, 2-pole	orange, right			
	orange, left			
Socket block, clamp. yoke conn.	orange, 3-pole	BLZ 5.08/03/180 SN OR BX	100	**1526560000**
	black, 3-pole	BLZ 5.08/03/180 SN BK BX	100	**1526510000**
	orange, 2-pole			
	black, 2-pole			
Socket block , tension clamp connection	orange, 3-pole	BLZF 5.08/03/180 SN OR BX	100	**1707470000**
	black, 3-pole	BLZF 5.08/03/180 SN BK BX	100	**1707700000**
	orange, 2-pole			
	black, 2-pole			
Female plug, PUSH IN	orange, 3-pole	BLF 5.08/03/180 SN OR BX	120	**1013690000**
	black, 3-pole	BLF 5.08/03/180 SN BK BX	120	**1013440000**
Note				

Accessories

Cross connection 2-pole (pluggable)		Type	Qty.	Order No
	red	ZQV 2.5N/2 RT	60	**1717900000**
	blue	ZQV 2.5N/2 BL	60	**1717990000**
	yellow	ZQV 2.5N/2 GE	60	**1693800000**
Other accessories				
Coding element	black	BLZ-KO SW	50	**1545710000**
Screw cap		CAP WAVEBOX L22.5/17.5	20	**8428120000**
Self-assembly PCB				
Note		Full housing available as set on request.		

OMNIMATE Housing
MICROBOX / TERMINALBOX

The MICROBOX and TERMINALBOX series of small housings are the perfect solution for miniature sliced applications or for the protective circuitry used in connection with terminal blocks.

Up to 6 wires can be connected using the integrated (but high-performance) clamping-yoke screw or tension-clamp wire connection mechanisms.

Because of its closed construction, each individual MICROBOX is finger-safe. The TERMINALBOX can be aligned side-by-side without end or closed off using an end plate.

Pluggable cross-connectors from our terminal block line allow simple, safe power distribution of up to 32 A.

Secure contacts

The TERMINALBOX MCZ 1.5 can optionally be equipped with a contact element that automatically establishes contact with the rail when the housing is snapped on.

Compact integration

With a width of only 6.00 mm, the TERMINALBOX MCZ 1.5 provides enough space for a miniature circuit board and 5 tension clamp connection for wires up to 1.5 mm².

Seamlessly connected

High-power cross-connectors allow power (up to 32 A) to be easily and quickly distributed on up to three levels.
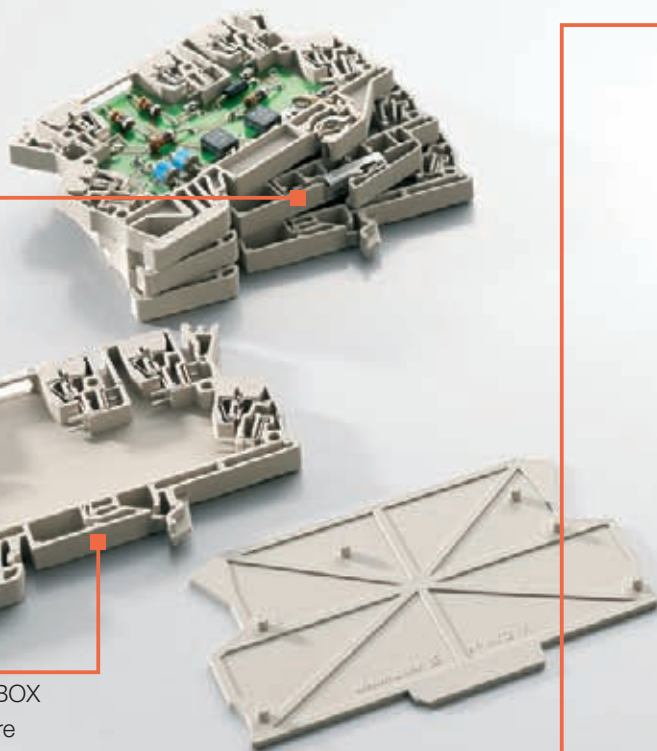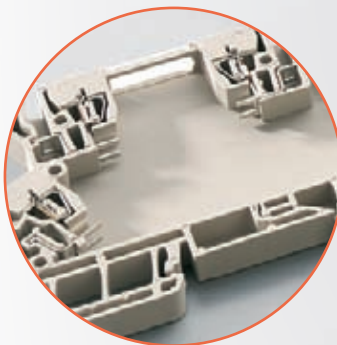
Easy to operate

The transparent hinged covers make adjustments simple (for example, using DIP switches). Labelling is also possible.

MICROBOX MHS 6

Miniature sliced-section housing in 6.1 mm width A total of 6 clamping yoke screw connections (for 2.5 mm² wires) can be manually or selectively wave soldered.

MICROBOX MHZ 6

Miniature sliced-section housing in 6.1 mm width A total of 6 tension clamp connection (for 1.5 mm² wires) can be manually or selectively wave soldered.

TERMINALBOX MCZ 1.5
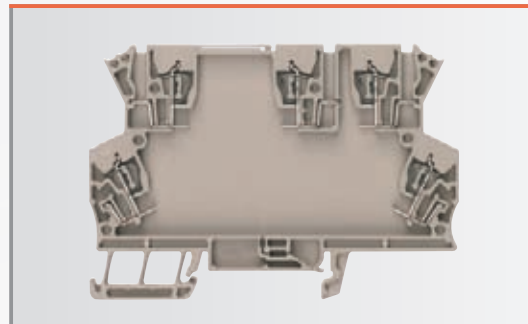
Terminal-block-format open housings with tension clamp connection for wires up to 1.5 mm². A total of 5 connection elements can be manually or selectively wave soldered.

Connect reliably

The MICROBOX provides a permanent, secure clamp connection for 6 wires up to 2.5 mm² (MHS 6 with clamping yoke screw connection) or up to 1.5 mm² (MHZ 6 with tension-clamp spring connection).

MICROBOX 6

1 miniature housing 6 - consists of:

screw connection
- 1 terminal carrier for TS35
- 2 horizontal busbars
- 4 vertical busbars
- 6 clamping yoke units
- 1 housing cover

tension clamp connection
- 1 terminal carrier for TS35
- 2 busbars, long version
- 4 current bars, short version
- 1 housing cover

MHS 6

Screw connection

MHZ 6

Tension clamp connection

Technical data

General data			
Dimensions W x L x H (w. TS35 x 7.5)	mm	6.1 / 88 / 97.8	6.1 / 92 / 97.8
No. of connections	total	6	6
Access for calibration			
Shielding		not available	not available
Contact to the mounting rail			
Number of PCB per module		1	1
PCB-connection		soldered connection, directly	soldered connection, directly
Thickness of PCB		0.5 … 1.0 mm	0.5 … 1.0 mm
Ingress protection class		IP 20	IP 20
Tightening torque range		0.4…0.6 Nm	0.4…0.6 Nm
Stripping length		7 mm	6 mm
Pollution severity		2	2
Material		PA	PA
Flammability class UL 94		V0	V0
Colour of insulating material		grey	grey

Clampable conductors (H05V/H07V)		Screw connection	Tension clamp connection	Screw connection	Tension clamp connection
Solid	mm²	0.2…2.5			0.2…1.5
Flexible	mm²	0.2…2.5			0.2…1.5
Max. conductor AWG		AWG 28…AWG 14			AWG 26…AWG 16
Plug gauge to 60947-1					
Note					

Ordering data

Individual parts		Type	Qty.	Order No	Type	Qty.	Order No
For mounting rail TS35	with connection element	MHS 6	10	**1925740000**	MHZ 6	10	**1925760000**
	for connection element	EBGH MSA ZB	50	**2277700000**	EBGH MSA ZF	50	**2277710000**
	for mounting rail contact, for connection element						
For mounting rail TS32	with connection element						
Frame for TS35							
Frame for TS35	for connection element						
Frame for TS32							
Top part	open						
	closed				SMSE FE MSA	1	**2279350000**
Current bars (w. tension clamp)	short version				SMSE2 ZF MSD	1	**2277000000**
	long version						
Current bars	horizontal	SMSE MSA ZB	1	**4286620000**			
	vertical	SMSE 1 MSD ZB	1	**4060540000**			
Clamp. yoke unit	clamp. yoke + screw	ZBSC DLI2.5/M2.5X6	1	**1919670000**			
Screw							
Clamping yoke							
Mounting rail contact							
Housing cover		GHDE MSA ZB FR 12	1	**2279280000**	GHDE MSA ZF	1	**2279300000**
Note							

Accessories

End plate	Type	Qty.	Order No	Type	Qty.	Order No
Cross-connection	ZQV 4N/2 RT	60	**1793950000**	ZQV 4N/2 RT	60	**1793950000**
	ZQV 4N/2 BL	60	**1793960000**	ZQV 4N/2 BL	60	**1793960000**
	ZQV 4N/2 GE	60	**1758250000**	ZQV 4N/2 GE	60	**1758250000**
Note	Full housing available as set on request.			Full housing available as set on request.		

MCZ 1.5

The transparent hinged top plate is used for labelling and calibration. Maximum equipment level requires 2 short and 3 long current bars. The space available and the number of connections can be doubled using the frame. CAD drawings that ease the production of layouts and equipping of boards (details of blocked area, max. component heights, pads, etc.), are available on request. The MCZ housing kit consists of:
• 1 terminal holder
• 1 top plate
• 1-5 current bars with tension clamp
• 1 end plate (if required)

MCZ 1.5

Tension clamp connection

Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	6 / 91.3 / 63.5
No. of connections	total	5
Access for calibration		Movable top plate
Shielding		not available
Contact to the mounting rail		Earthing-contact
Number of PCB per module		1
PCB-connection		soldered connection, directly
Thickness of PCB		1.0 (+ 0.2) mm
Ingress protection class		IP 20
Tightening torque range		
Stripping length		6 mm
Pollution severity		3
Material		PA
Flammability class UL 94		V0
Colour of insulating material		beige/black

Clampable conductors (H05V/H07V)		Screw connection	Tension clamp connection
Solid	mm²		0.2…1.5
Flexible	mm²		0.2…1.5
Max. conductor AWG			AWG 26…AWG 16
Plug gauge to 60947-1			
Note			

Ordering data

Individual parts		Type	Qty.	Order No
For mounting rail TS35	with connection element	MCZ 5	10	**8857560000**
	for connection element	GH MCZ1.5	1	**2224220000**
	for mounting rail contact, for connection element	GH MCZUE1.5/UE	1	**2312290000**
For mounting rail TS32	with connection element			
Frame for TS35		RA MCZ1.5	25	**2224240000**
Frame for TS35	for connection element			
Frame for TS32				
Top part	open	KOPL MCZ1.5	18	**2224040000**
	closed			
Current bars (w. tension clamp)	short version	SMSE KU FE MCZ 1.5	1	**2224390000**
	long version	SMSE LN FE MCZ 1.5	1	**2224380000**
Current bars	horizontal			
	vertical			
Clamp. yoke unit	clamp. yoke + screw			
Screw				
Clamping yoke				
Mounting rail contact		SMSE FE MCZ 1.5/PE	100	**1003280000**
Housing cover				
Note				

Accessories

End plate	Type	Qty.	Order No
	AP MCZ1.5	50	**8389030000**
Cross-connection	ZQV 4N/2 RT	60	**1793950000**
	ZQV 4N/2 BL	60	**1793960000**
	ZQV 4N/2 GE	60	**1758250000**
Note	Full housing available as set on request.		

Profile housing
Explanation

OMNIMATE Housing RS
Profile housing

Flexible – more flexible – Profilform

Build housing in profile form – the flexible modular system of coloured and transparent PVC profiles and carrier modules the perfect combination of any mounting utilising standard pitches and precisely cut to length, this creates the perfect balance between flexibility and efficiency: The modular approach is ideal for assemblies with high space requirements and is particularly suited for small quantities or variable widths.

Flexible covers

See-through covers in various heights protect assemblies even with high components safely.

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Flexible installation

Extruded profiles can take several modules next to each other. Depending on the type of circuit boards can be installed on two different levels.

Flexible lengths

Cut, or joined together in a row: extruded profiles can be easily adjusted to the space requirements of every application.

Variable RS-profile housing

Variable, precision cut extruded profile with different height cover hods allow maximum packing density even for large electronic sub-assemblies.

Modular RS-profile housing

Tool-free latching profiles with standard widths from 5 to 45 mm allow rapid assembly of tailor made solutions.

Flexible mounting

Mounting options: snapped onto the mounting rail or directly secured using screws.

OMNIMATE Housing RS
Profile housing

RS profile housings can be snapped on to DIN rails or mounted directly. They are available in six widths. The extruded profiles can be cut to length or joined together in modules and are ideal for low volume, special assemblies or test set-ups. Fitted transparent hoods are used to protect the components.

Width	Type	Construction/Width of circuit board	Catalogue pages
45 mm	RS 45	Variable / 42 mm	I.52
70 mm	RS 70	Modular / 67.8 mm	I.53
87 mm	RS 80	Variable / 67.8 mm	I.54
86 mm	RS 90	Variable / 79.8 mm	I.55
109 mm	RS 100	Variable / 100 mm	I.56
130.8 mm	RS 122	Variable / 122 mm	I.57

Colour

■ Similar to RAL 9011

■ Similar to RAL 7024

■ Similar to RAL 2000
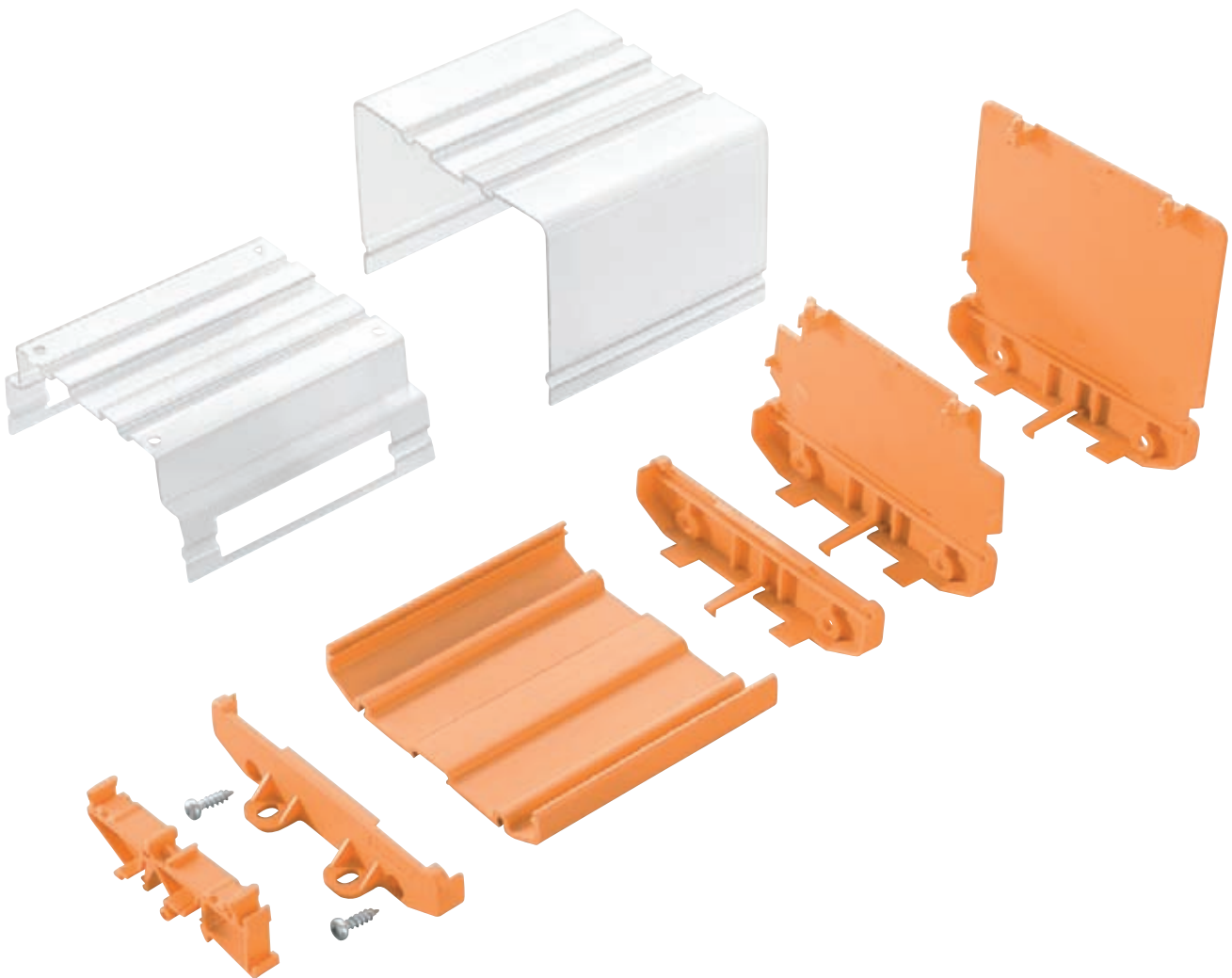
Housing variants	Description / Type	Design options

RS 45
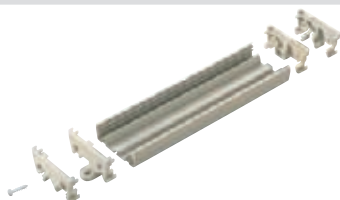
RS extruded profile 45 mm variable

Features:
- Width 45 mm
- Circuit board width: 42 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 00

- Can be shortened to any length
- Rail mounted
- Direct mount [2]
- machinable

RS 70

RS extruded profile 70 mm modular

Features:
- Width 70 mm
- Circuit board width: 67.8 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 00

- Can be aligned side-by-side without any tools
- Rail mounted

RS 80

RS extruded profile 80 mm variable

Features:
- Width 87 mm
- Circuit board width: 67.8 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 20
- Markable
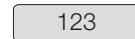
- Can be shortened to any length
- Rail mounted
- Direct mount [2]
- Transparent hood (opt.)
- machinable

RS 90

RS extruded profile 90 mm variable

Features:
- Width 86 mm
- Circuit board width: 79.8 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 00

- Can be shortened to any length
- Rail mounted
- Direct mount [2]
- machinable

RS 100
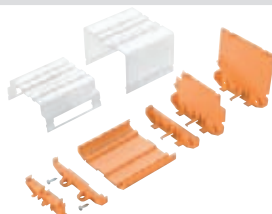
RS extruded profile 100 mm variable

Features:
- Width 109 mm
- Circuit board width: 100 mm
- Number of circuit boards (max.): 1
- Protection class (max.): IP 20

- Can be shortened to any length
- Rail mounted
- Direct mount [2]
- Transparent hood (opt.)
- machinable

RS 122
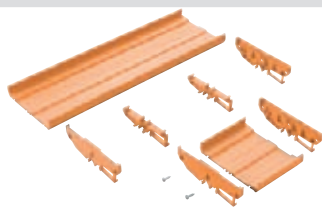
RS extruded profile 122 mm variable

Features:
- Width 130.8 mm
- Circuit board width: 122 mm
- Number of circuit boards (max.): 2
- Protection class (max.): IP 00
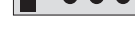
- Can be shortened to any length
- Rail mounted
- machinable

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pad printing,   123 markable,   ● ● ● machinable,   2) Screw mount

Profile housing
Technical data

RS 45

Chassis plus 4 screws available in two versions:
Rail-mounted version
• 2 end plates for rail mounting
• 1 extruded profile, Direct-mount version
• 2 end plates for direct mounting
• 1 extruded profile

Description

3 heights are available for cover profile and end plates:
TS-mounting:
TS32 = 45 mm, TS35x7.5 = 40.5 mm
Direct mounting: 24 mm

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width:
42 (+0.5) mm
Size of RS segment = PCB length - 4.5 mm
Size of ADP segment = PCB length - 1 mm
Example:
PCB length 160 mm,
RS = 155.5 mm, ADP = 159 mm

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Dimensioned drawing

22.9

AP RS45/L DI

ca.24.5

AP RS45/LI

45

RS 45

Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V2
Colour of insulating material	beige
Note	

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	RF RS 45 OR 2000	V0	1	**4340430000**
2000 mm	grey	PF RS 45 GR 2000	V0	1	**4027750000**
1000 mm	grey	PF RS 45 GR 1000	V0	10	**8140880000**
155 mm	orange				
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version	AP 45/LI	V2	20	**8143910000**
	grey, right-hand version	AP 45/RE	V2	20	**8143900000**
	orange, left version	AP 45/LI OR	V2	20	**1011590000**
	orange, right-hand version	AP 45/RE OR	V2	20	**1011600000**
Locking foot					
	orange				
	grey				
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	intermediate foot				
End plate for direct mounting					
Without cover	grey, left version	AP 45/LI DI	V2	20	**8140870000**
	grey, right version	AP 45/RE DI	V2	20	**8140860000**
	orange				
	grey				
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
End plate for mounting rail installation					
Without cover	orange				
	grey				
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
Cover profile 1000 mm	Medium-high	ADP 1/HP1 1M	V2	1	**0485200000**
	high				
Screws		LKSC M2.9x13VZ		100	**4011200000**
Note		Other lengths on request.			

RS 70

Chassis Form:
Rail-mounted version
• 1 clip-on foot left
• 1 clip-on foot right
• 1 or more intermediate pieces
• 1 clip-on foot centre if required

RS 70

Description

Height: TS32 = 33.5 mm, TS35x7.5 = 29 mm

Dimensions of PCB:
Thickness: 1.6 (± 0.2) mm
Length: 67.8 (- 0.2) mm
Width of intermediate piece = PCB width - 2x9mm (snap-on feet)

Example:
PCB width = 68 mm
Width of intermediate piece = 50 mm
Intermediate piece 2x ZW 25 RS or
ZW 45 RS + ZW 5 RS

Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PA
Flammability class UL 94	V2
Colour of insulating material	orange
Note	

Dimensioned drawing

Ordering data

Extruded profile		Type	Qty.	Order No.
2000 mm	orange			
2000 mm	grey			
1000 mm	grey			
155 mm	orange			
Intermediate piece				
5 mm		ZW 5 RS OR	20	**0119760000**
15 mm		ZW 15 RS OR	20	**0119860000**
25 mm		ZW 25 RS OR	20	**0126160000**
30 mm		ZW 30 RS OR	20	**0119960000**
45 mm		ZW 45 RS OR	20	**0120060000**
End plate w. locking foot				
Without cover	grey, left version			
	grey, right version			
Locking foot				
	orange			
	grey			
With marking facilities	left version			
	right version	RF RS 70 RE/A3/M.BEZ	20	**0119560000**
Without marking facilities	left version	RF RS 70 LI/A2/O.SG	20	**0119660000**
	right version	RF RS 70 RE/A4/O.BEZ	20	**0126260000**
Central	Intermediate foot	RF RS 70 MI/A6	20	**0213760000**
End plate for direct mounting				
Without cover	grey, left version			
	grey, right version			
	orange			
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
End plate for mounting rail installation				
Without cover	orange			
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
Cover profile	Medium-high			
	high			
Screws				
Note				

Profile housing
Technical data

RS 80

Chassis plus 4 screws available in two versions:
Rail-mounted version
• 2 end plates for rail mounting
• 2 or more clip-on feet
• 1 extruded profile
• 1 cover profile (if required) Direct-mount version
• 2 end plates for direct mounting
• 1 extruded profile
• 1 cover profile (if required)

Description

3 heights are available for cover profile and end plates:
Rail mounting without cover:
TS32 = 45 mm, TS35x7.5 = 40.5 mm
Rail mounting with low cover:
TS32 = 72 mm, TS35x7.5 = 67.5 mm
Rail mounting with high cover:
TS32 = 91 mm, TS35x7.5 = 86.5 mm
Direct mounting without/low/high cover:
17 / 44 / 63 mm

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width:
67.8 (+0.2) mm
Size of RS segment = PCB length - 4.5 mm
Size of ADP segment = PCB length - 2 mm
Example:
PCB length 160 mm
RS = 155.5 mm, ADP = 158 mm

Dimensioned drawing

RS 80

Technical data

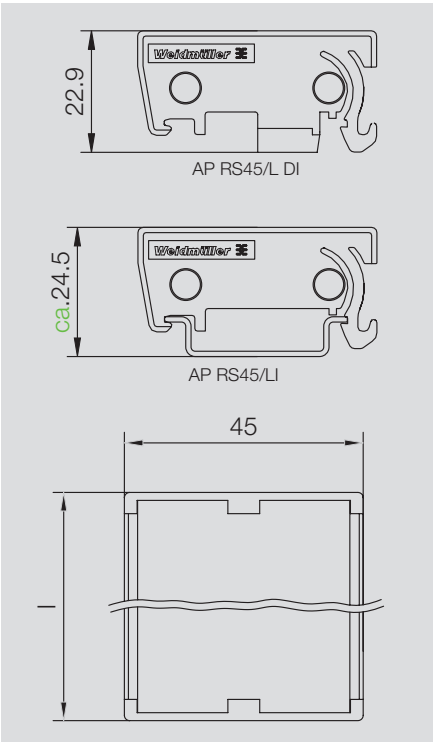| General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	PF RS 80 OR 2000MM	V0	1	**4157440000**
2000 mm	grey	PF RS 80 GR 2000MM	V0	1	**4183130000**
1000 mm	grey				
155 mm	orange				
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version	AP RF80 LI	V2	20	**8156210000**
	grey, right version	AP RF80 RE	V2	20	**8156200000**
Locking foot					
	orange	RF 180		20	**1324460000**
	grey	RF 180 GR	V2	20	**1773400000**
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	Intermediate foot				
End plate for direct mounting					
Without cover	grey, left version				
	grey, right version				
	orange	AP 80 D	V2	20	**1324360000**
	grey				
For medium-high cover profile	orange	AP 85 D	V2	20	**1411060000**
	grey				
For high cover profile	orange	AP 86 D	V2	20	**1411160000**
	grey				
End plate for mounting rail installation					
Without cover	orange	AP 80	V2	20	**1324260000**
	grey	AP 80	V2	20	**8320300000**
For medium-high cover profile	orange	AP 85	V2	20	**1410860000**
	grey				
For high cover profile	orange	AP 86		20	**1410960000**
	grey				
Cover profile 1000 mm	Medium-high	ADP 5	V2	1	**4167150000**
1000 mm	high	ADP 6	V2	1	**4167160000**
Screws		LKSC M2.9x13VZ		100	**4011200000**

Note	
	Other lengths on request.

RS 90

Chassis plus 4 screws available in two versions:
• 2 end plates
• 2 or more clip-on feet
• 1 extruded profile

Description

Dimensions of PCB
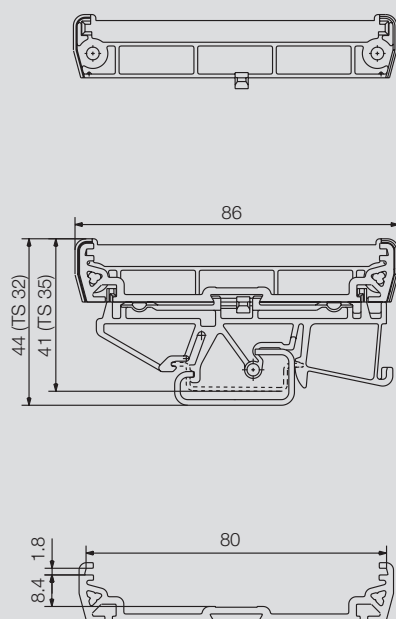Thickness: 1.6 (±0.2) mm, width: 79.8 (+0.2) mm
Size of RS segment = PCB length - 4.5 mm
Example:
PCB length 160 mm
RS = 155.5 mm

Dimensioned drawing

86

44 (TS 32) 41 (TS 35)

80

1.8

8.4

RS 90

Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	PF RS 90 OR 2000MM	V0	1	**4053240000**
2000 mm	grey	PF RS 90 GR 2000MM	V0	1	**4051810000**
1000 mm	grey				
155 mm	orange				
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version				
	grey, right version				
Locking foot					
	orange	RF 180	V2	20	**1324460000**
	grey	RF 180 GR	V2	20	**1773400000**
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	Intermediate foot				
End plate for direct mounting					
Without cover	grey, left version				
	grey, right version				
	orange				
	grey				
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
End plate for mounting rail installation					
Without cover	orange	AP 90 OR	V2	20	**1961880000**
	grey	AP 90 GR	V2	20	**1961890000**
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
Cover profile	Medium-high				
	high				
Screws		LKSC M2.9x13VZ		100	**4011200000**
Note		Other lengths on request.			

Profile housing
Technical data

RS 100

Chassis plus 4 screws available in two versions:
Rail-mounted version
- 2 end plates for rail mounting
- 2 or more clip-on feet
- 1 extruded profile
- 1 cover profile (if required) Direct-mount version
- 2 end plates for direct mounting
- 1 extruded profile
- 1 cover profile (if required)

Description

3 heights are available for cover profile and end plates:
Rail mounting without cover:
TS32 = 45 mm, TS35x7.5 = 40.5 mm
Rail mounting with low cover:
TS32 = 89 mm, TS35x7.5 = 84.5 mm
Rail mounting with high cover:
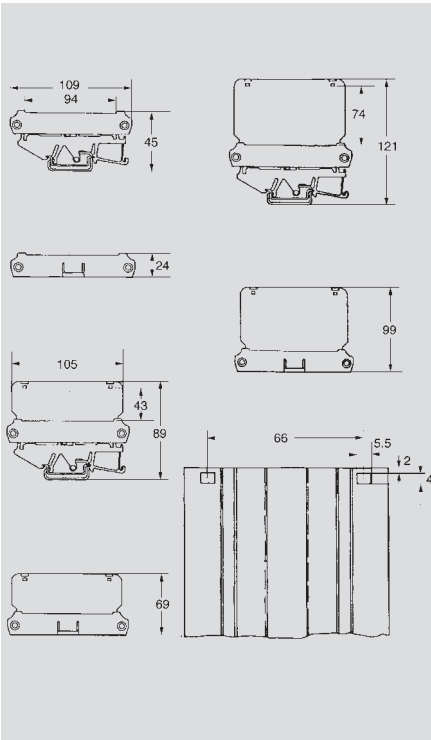TS32 = 121 mm, TS35x7.5 = 116.5 mm
Direct mounting without/low/high cover:
24 / 69 / 99 mm

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width:
100 (+0.5) mm
Size of RS segment = PCB length - 4.5 mm
Size of ADP segment = PCB length - 1 mm
Example:
PCB length 160 mm
RS = 155.5 mm, ADP = 159 mm

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Dimensioned drawing

RS 100

Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange / grey (Black on request)
Note	

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	PF RS 100 OR 2000MM A.1	V0	1	**4144870000**
2000 mm	grey	PF RS 100 GR 2000MM A.1	V0	1	**4010870000**
100 0mm	grey				
155 mm	orange	PF RS 100 A.1 OR 155.5	V0	25	**4148400000**
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version				
	grey, right version				
Locking foot					
	orange	RF 180	V2	20	**1324460000**
	grey	RF 180 GR	V2	20	**1773400000**
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	Intermediate foot				
End plate for direct mounting					
Without cover	grey, left version				
	grey, right version				
	orange	AP 100 D	V2	20	**1185160000**
	grey				
For medium-high cover profile	orange	AP 110 D	V2	10	**1185360000**
	grey				
For high cover profile	orange	AP 111 D	V2	10	**1185560000**
	grey				
End plate for mounting rail installation					
Without cover	orange	AP 100	V2	20	**1185060000**
	grey				
For medium-high cover profile	orange	AP 110	V2	10	**1185260000**
	grey				
For high cover profile	orange	AP 111	V2	10	**1185460000**
	grey				
Cover profile 2000 mm	Medium-high	ADP 10	V2	1	**4169320000**
2000 mm	high	ADP 11	V2	1	**4169330000**
Screws		PTSC KB40X14		100	**4019420000**
Note		Other lengths on request.			

RS 122

Housing construction (plus 4 screws):
available as a rail mounting version
(TS mounting)
• 2 end plates for rail mounted assembly
  with locking foot
• 2 or more locking feet
• additional intermediate foot
• 1 Extruded profile

RS 122

Description

Takes PCB in 2 positions

Dimensions of the PCB
Thickness: 1.6 (±0.2) mm, width: +0.5 mm
i.e. length RS section = PCB length - 5 mm
Example:
PCB length 160 mm,
RS section = 160 mm - 5 mm = 155 mm

Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type	Qty.	Order No.
2000 mm	orange	PF RS 122 OR 2000MM	10	**1155940000**
2000 mm	grey			
100 0mm	grey			
155 mm	orange			
Intermediate piece				
5 mm				
15 mm				
25 mm				
30 mm				
45 mm				
End plate w. locking foot				
Without cover	grey, left version			
	grey, right version			
Locking foot				
	orange	RF 108 OR	20	**1020690000**
	grey			
With marking facilities	left version			
	right version			
Without marking facilities	left version			
	right version			
Central	Intermediate foot			
End plate for direct mounting				
Without cover	grey, left version			
	grey, right version			
	orange			
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
End plate for mounting rail installation				
Without cover	orange, left version	AP RF 122 LI OR	20	**1020640000**
	orange, right version	AP RF 122 RE OR	20	**1020650000**
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
Cover profile	Medium-high			
	high			
Screws				
Note		Other lengths on request.		

Dimensioned drawing

130.8
122
47.6 (TS 32)
43.6 (TS 35)

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Weidmüller ⋙