



Klingenbergstraße 26 D-32758 Detmold Germany

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Connect efficiently - in a small space: female header with spring connection (PUSH IN) as a plug-in connection level; used together with male headers in 3.50 mm pitch.

General ordering data

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 10, 180°, PUSH IN with actua- tor, Clamping range, max.: 1.5 mm², Box
Order No.	2471390000
Туре	BL-I/O 3.50/10F CJC AU BK BX
GTIN (EAN)	4050118585599
Qty.	20 items
Product data	IEC: 200 V / 2.2 A / 0.2 - 1.5 mm ² UL: 50 V / 5 A / AWG 24 - AWG 16
Packaging	Вох



Weidmüller Interface GmbH & Co. KG

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Technical data

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Approvals	1000	10.00		
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ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Height	10.3 mm	Height (inches)	0.4055 inch
Width	42 mm	Width (inches)	1.6535 inch
Net weight	11.55 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System Parameters

Product family	OMNIMATE Signal - series BL/SL 3.50			
Type of connection	Field connection			
Wire connection method	PUSH IN with actuator			
Pitch in mm (P)	3.50 mm			
Pitch in inches (P)	0.138 "			
Conductor outlet direction	180°			
Number of poles	10			
L1 in mm	31.50 mm			
L1 in inches	1.240 "			
Pin series quantity	2			
Rated cross-section	1 mm ²			
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch			
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged			
Volume resistance	≤5 mΩ			
Can be coded	Yes			
Stripping length	8 mm			
Screwdriver blade	0.4 x 2.5			
Screwdriver blade standard	DIN 5264			
Plugging cycles	25			
Plugging force/pole, max.	6 N			
Pulling force/pole, max.	6 N			
Tightening torque	Torque type	Screw flange		
	Usage information	Tightening torque	min.	0.15 Nm
			max.	0.2 Nm

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact base material	Cu-alloy
Contact material	Cu-alloy	Contact surface	tinned

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Technical data

Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	75 °C

Conductors suitable for connection

Clamping range, min.	0.2 mm ²		
Clamping range, max.	1.5 mm ²		
Wire connection cross section AWG, min.	AWG 24		
Wire connection cross section AWG, max.	AWG 16		
Solid, min. H05(07) V-U	0.2 mm ²		
Solid, max. H05(07) V-U	1.5 mm ²		
Flexible, min. H05(07) V-K	0.2 mm ²		
Flexible, max. H05(07) V-K	1.5 mm ²		
w. plastic collar ferrule, DIN 46228 pt	4, 0.2 mm ²	 ·	
min.			
w. plastic collar ferrule, DIN 46228 pt	4, 0.75 mm²		
max.			

w. wire end ferrule, DIN 46228 pt 1, 0.2 mm² min. 0.2 mm² w. wire end ferrule, DIN 46228 pt 1, 1 mm²

w. wire end ferrule, DIN 46228 pt 1, max.

Plug gauge in accordance with EN

2.4 mm x 1.5 mm; 1.9mm

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.25 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.34 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/14 OR
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,75/14T HBL

Reference text

The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage.

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	2.2 A
Rated current, max. number of poles (Tu=20°C)	2 A	Rated current, min. number of poles (Tu=40°C)	2.2 A
Rated current, max. number of poles (Tu=40°C)	2 A	Rated voltage for surge voltage class / pollution degree II/2	200 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	50 V

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Technical data

Rated impulse voltage for surge voltage 2500 V class/ pollution degree II/2	Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 0.8 kV	Short-time withstand current resistance 3 x 1s with 120 A
class/ contamination degree III/3	

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1202189
Rated voltage (Use group B / CSA)	50 V	Rated voltage (Use group D / CSA)	50 V
Rated current (Use group B / CSA)	5 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	50 V	Rated voltage (Use group D / UL 1059)	50 V
Rated current (Use group B / UL 1059)	5 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	168.00 mm
VPE width	96.00 mm	VPE height	43.00 mm

Resistance parameters

R25	10.00 kΩ	Temperature coefficient (+25 °C)	-4.40 %/°C
Thermistor beta, β (0 to +50 °C)	3892.00 K	Power loss	2 mW / °C

Type tests

Test: Durability of markings	Standard	draft DIN VDE 0627 section 6.2.2 / 09.91	
	Test	mark of origin, type identification, pitch, type of material	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.99	
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section	
		Type of conductor stranded 0.2 mm ² and conductor cross-section	
		Type of conductor solid 1.5 mm ² and conductor cross-section	
		Type of conductor stranded 1.5 mm ² and conductor cross-section	
		Type of conductor AWG 24/1 and conductor cross-section	

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Technical data

		Type of conductor AWG 24/19 and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section
		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
st for damage to and accidental	Standard	DIN EN 60999 section 8.4 / 04.94
osening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor stranded 0.05 mm ² and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section
		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor solid 1.5 mm ² and conductor cross-section
		Type of conductor stranded 1.5 mm ² and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section
		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
ll-out test	Standard	DIN EN 60999 section 8.5 / 04.94
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥30 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross- section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥40 N
	Conductor type	Type of conductor H05V-U1.5 and conductor cross-section





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Technical data

	Type of conductor and conductor cross-section	H05V-K1.5
Evaluation	passed	

Important note

IPC conformity

Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Notes

• Rated data refer only to the component itself. Clearance and creepage distances to other

- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
 - P on drawing = pitch
 - Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
 - Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
 - Wire end ferrule without plastic collar to DIN 46228/1
 - Wire end ferrule with plastic collar to DIN 46228/4
 - Conductor < 0.2 mm² tinned
 - Max. outer diameter of the conductor: 2.9 mm
 - In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
 - Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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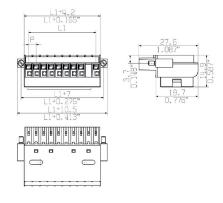


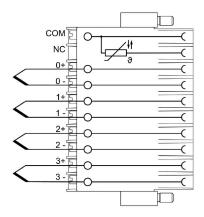
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Drawings



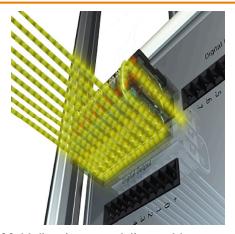


Product benefits



Solid PUSH IN contactSafe and durable

Product benefits



Multiplies the potentialLow wiring costs



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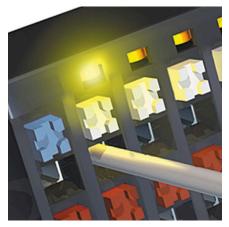
Drawings

Product benefits



PUSH IN - fast and secureInvented by Weidmüller

Product benefits



Integrated electronicsFor more space on the circuit board





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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Туре	BL SL 3.5 KO OR	Version
Order No.	<u>1693430000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	
Туре	BL SL 3.5 KO SW	Version
Type Order No.	BL SL 3.5 KO SW 1610100000	Version PCB plug-in connector, Accessories, Coding element, black, Number
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Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Туре	SDS 0.4X2.5X75	Version
Order No.	2749320000	Screwdriver, Blade width (B): 2.5 mm, Blade length: 75 mm, Blade
GTIN (EAN)	4050118895544	thickness (A): 0.4 mm
Qty.	1 ST	
Turne	0010 0 41/0 51/75	
Туре	SDIS 0.4X2.5X75	Version
Order No.	2749790000	Version Screwdriver, Blade width (B): 2.5 mm, Blade length: 75 mm, Blade

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Accessories

Crimping tools



Crimping tools for wire end ferrules, with and without plastic collars

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation

General ordering data

Туре	PZ 1.5	Version
Order No.	9005990000	Pressing tool, Crimping tool for wire-end ferrules, 0.14mm², 1.5mm²,
GTIN (EAN)	4008190085964	Trapezoidal crimp
Qty.	1 ST	
Туре	PZ 6/5	Version
Order No.	9011460000	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,
GTIN (EAN)	4008190165352	Trapezoidal indentation crimp