

## M12 male 0° A-cod. / MSUD valve plug B-10mm

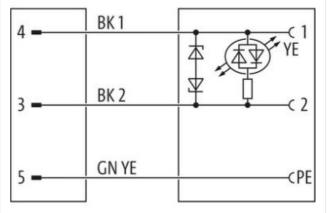
PUR 3x0.75 bk UL/CSA+drag ch. 1m

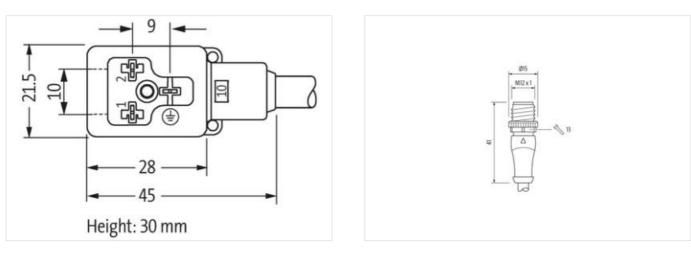
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



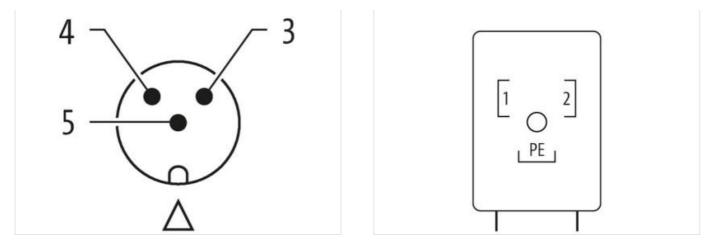






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Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Coding	A
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,4 Nm
Family construction form	MSUD B
Thread	M3
No. of poles	3
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060312
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879147552
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	

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Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28.8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Additional suppressor	Z-Diode
Mechanical data   Material data	
Coating locking	Nickeled
Locking screw coating	verzinkt
Color housing	black
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
	endangered by excessive bending forces.
Conformity	
Conformity Product standard	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
Product standard Installation   Cable	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
Product standard Installation   Cable Cable identification	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636
Product standard Installation   Cable Cable identification Cable Type	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black)
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted         black 1, black 2, green-yellow         56,1 g/m
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted         black 1, black 2, green-yellow         56,1 g/m         PUR
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted         black 1, black 2, green-yellow         56,1 g/m         PUR         90 ± 5 Shore A
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted         black 1, black 2, green-yellow         56,1 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         5,9 mm         ± 5 %
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted         black 1, black 2, green-yellow         56,1 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         5,9 mm         ± 5 %         PP
Product standard Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         636         3         white (isolation black)         black         cURus         1         3 wires twisted         black 1, black 2, green-yellow         56,1 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         5,9 mm         ± 5 %

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Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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