

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

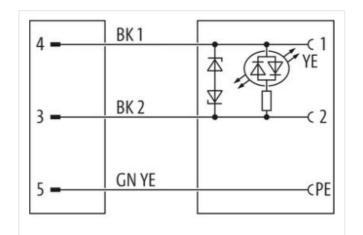
PUR 3x0.75 ye UL/CSA 2m

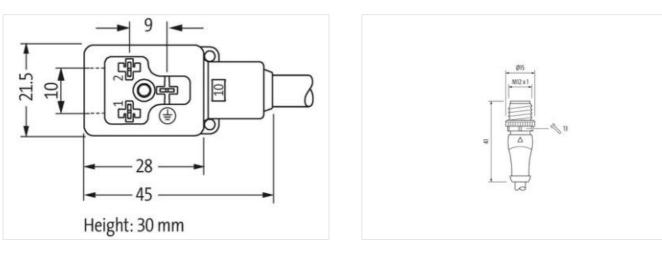
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



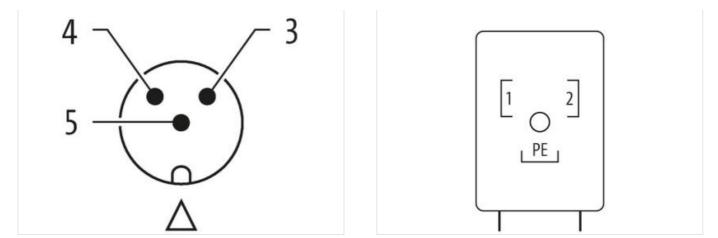






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Product may differ from Image



Cable length	2 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	4048879148030
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)	
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	с
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Operating temperature max. Additional condition temperature range	
Operating temperature max. Additional condition temperature range Important installation notes	85 °C depending on cable quality
Operating temperature max. Additional condition temperature range	85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation   Cable	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026
Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 m @ 25 °C   horizontal
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 m @ 25 °C   horizontal   55 g/m
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 m @ 25 °C   horizontal   55 g/m   PUR
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 m @ 25 °C   horizontal   55 g/m   PUR   85 ± 5 Shore A
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 m @ 25 °C   horizontal   55 g/m   PUR   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 g/m   PUR   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm
Operating temperature max.   Additional condition temperature range   Important installation notes   Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)	85 °C   depending on cable quality   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   026   2   white (isolation black)   yellow   cURus   1   3 wires twisted   black 1, black 2, green-yellow   5 g/m   PUR   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %

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Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-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
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	9,6 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	0° ℃
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	℃ 08
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404
Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
Travel speed (C-track)	2 Mio. @ 25 °C

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