

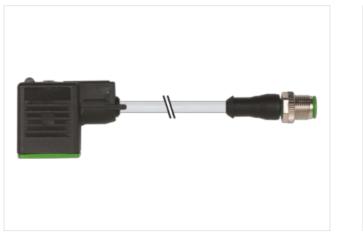
M12 male 0° A-cod. / MSUD valve plug B-10mm

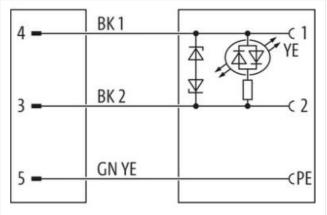
PUR 3x0.75 gy UL/CSA+drag ch. 3m

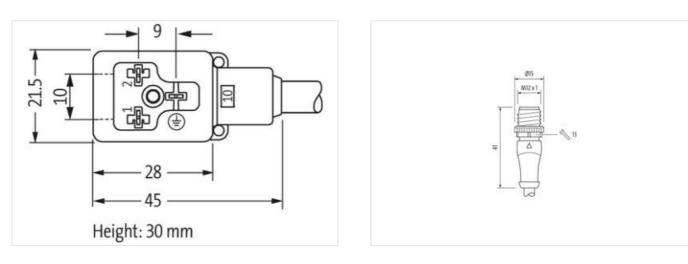
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product



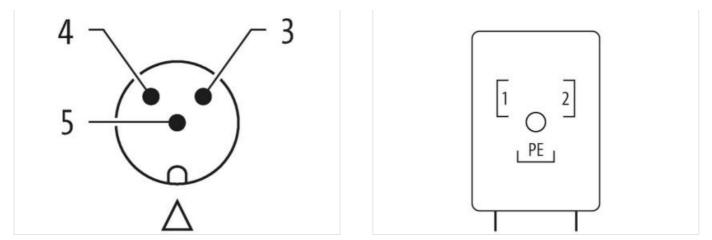






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Product may differ from Image



suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2	Cable length	3 m
Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 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 Side 2 Thread MSUD B Thread MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12	Side 1	
Thread M12 x 1 suitable for corrugated tube (internal Ø) 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 Commodia M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commodia M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commodia 27279218 ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.2.0 27060312 ECLASS-1.1 27060312	Tightening torque	0,6 Nm
suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 IP67 Side 2 Image: State S	Family construction form	M12
Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 Ightening torque 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 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27260312 ECLASS-8.0.1 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 EC01825 oustoms tariff number B5444290 GTIN 4048879147767 Packaging unit 1	Thread	M12 x 1
No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2	suitable for corrugated tube (internal \emptyset)	10 mm
Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 IP67 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 IP7279218 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-6.1 27279218 ECLASS-6.1 27279218 ECLASS-6.1 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ETIM-5.0 ECO01855 customs tariff number 85444290 GTIN 4048879147767 Packaging unit 1 Electrical data 2 Capacity CX 20 ms	Coding	A
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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 4048879147767 Packaging unit 1 Electrical data 20 ms	ECLASS-6.1	27279218
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ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147767 Packaging unit 1 Electrical data 20 ms	ECLASS-8.0	27279218
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ETIM-5.0 EC001855 customs tariff number 8544290 GTIN 4048879147767 Packaging unit 1 Electrical data 20 ms	ECLASS-11.1	27060312
customs tariff number 8544290 GTIN 4048879147767 Packaging unit 1 Electrical data 20 ms	ECLASS-12.0	27060312
GTIN 4048879147767 Packaging unit 1 Electrical data 20 ms	ETIM-5.0	
Packaging unit 1 Electrical data 20 ms		
Electrical data Capacity CX 20 ms		
Capacity CX 20 ms	Packaging unit	1
	Electrical data	
Electrical data Supply	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	
Mounting method	inserted, screwed
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Operating temperature max. Additional condition temperature range	85 °C depending on cable quality
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Additional condition temperature range	
Additional condition temperature range Important installation notes	depending on cable quality
Additional condition temperature range Important installation notes Note on strain relief	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
Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	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
Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity	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.
Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard	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.
Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable	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)
Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification	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) 236
Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type	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) 236 3
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	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) 236 3 white (isolation black)
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	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) 236 3 white (isolation black) gray
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	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) 236 3 white (isolation black) gray cURus
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	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) 236 3 white (isolation black) gray cURus 1
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	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted
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	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow
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)	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal
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	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m
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	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR
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 Shore hardness jacket	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A
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 Shore hardness jacket Freedom from ingredients (jacket)	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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 Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm
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 Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	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) 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 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 insulation	1,85 mm
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 ²
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	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
Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404 Good, application-related testing
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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