

M12 male 0° A-cod. / MSUD valve plug A-18mm

PUR 4x0.75 bk UL/CSA+drag ch. 0.6m

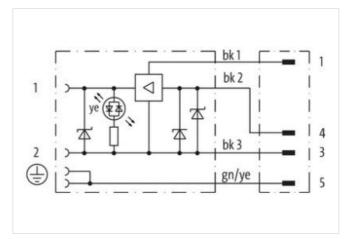
Form A (18 mm)
Further cable lengths on request.
Male M12
straight
12...30 V DC
4-pole
Z-Diode + LED
Control current

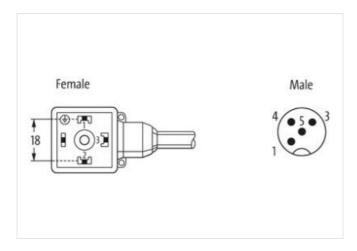
Switching frequency Plastic housings with good resistance against chemicals and oils.

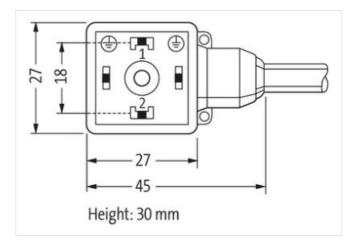
Link to Product

Illustration



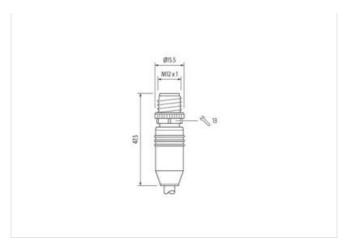








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Product may differ from Image









Side 1 Tightening torque 0,4 Nm Mounting method inserted, screwed Coating contact silver-plated Family construction form MSUD Thread M3 Material contact Copper alloy Material purpose 4 Side 2 Tightening torque Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material contact Copper alloy Material postes 4 Wildth across fiats SW13 Commercial date ECLASS-6.0 27143423 ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-10.1 26044290 GTIN 404	Cable length	0,6 m
Mounting method Inserted, screwed	Side 1	
Coating contact silver-plated Family construction form MSUD Thread M3 Material contact Copper alloy Material PUR PUR No. of poles 4 Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material contact Copper alloy Material contact Copper alloy No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 E001855 coutoms tariff number 85444290	Tightening torque	0,4 Nm
Family construction form MSUD Thread M3 Material contact Copper alloy Material PUR No. of poles 4 Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-9.0 2760312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC01855 customs tariff number 85444290	Mounting method	inserted, screwed
Thread	Coating contact	silver-plated
Material contact Copper alloy No. of poles 4 Side 2 Tightening torque 0.6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Family construction form	MSUD
Material PUR No. of poles 4 Side 2 Tightening torque 0.6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Thread	M3
No. of poles 4 Side 2 Tightening torque 0.6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Material contact	Copper alloy
Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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 EC01855 customs tariff number 85444290		PUR
Tightening torque 0,6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 2779218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.2 27060312 ECLASS-1.2 27060312 ECLASS-1.0 27060312 ECLASS-1.0 27060312 ECLASS-1.0 27060312 ECLASS-1.0 27060312 ECLASS-1.0 ECO01855 customs tariff number 85444290	No. of poles	4
Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Side 2	
Coating contact gold plated Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 ECLASS-6.1 27279218 ECLASS-7.0 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	Tightening torque	0,6 Nm
Family construction form M12 Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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 EC01855 customs tariff number 85444290	Mounting method	inserted, screwed
Thread M12 x 1 Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27799218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.0 27060312	Coating contact	gold plated
Material contact Copper alloy Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Family construction form	M12
Material PBT No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Thread	M12 x 1
No. of poles 4 Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Material contact	Copper alloy
Width across flats SW13 Commercial data ECLASS-6.0 27143423 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	Material	PBT
Commercial data ECLASS-6.0 27143423 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	No. of poles	4
ECLASS-6.0 27143423 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	Width across flats	SW13
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	Commercial data	
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	ECLASS-6.0	27143423
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	ECLASS-6.1	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	ECLASS-7.0	27279218
ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290	ECLASS-9.0	27060312
ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290	ECLASS-10.1	27060312
ETIM-5.0 EC001855 customs tariff number 85444290	ECLASS-11.1	27060312
customs tariff number 85444290	ECLASS-12.0	27060312
	ETIM-5.0	EC001855
GTIN 4048879143400	customs tariff number	85444290
	GTIN	4048879143400

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19



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Packaging unit	1
Electrical data Supply	
Operating voltage DC min.	12 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	46 V
Operating current per contact min. (40 °C)	0,1 A
Operating current per contact max. (40°C)	2 A
Current consumption max.	6 mA
Diagnostics	
Status indication LED	yellow
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Electrical data Output	
	EO II-
Switching frequency max.	50 Hz
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	Nickeled
Color housing	black
Material gasket	PUR
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	black 1, black 2, black 3, green-yellow
Cable identification	637
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires twisted
wire arrangement	black 1, black 2, black 3, green-yellow
Cable weigth	69,3 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	
	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,5 mm
	·
Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	6,5 mm
Tolerance outer diameter (sheath)	6,5 mm ± 5 %



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	9,6 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	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
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
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min