

SAC-M12MS-2,0/0,2-116/2XA-1L-Z - Sensor/actuator cable



1411875

<https://www.phoenixcontact.com/us/products/1411875>

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Sensor/actuator cable, 4-position, PUR/PVC, black, Plug straight M12, on Valve connector A, with 1 LED, Wiring: Z diode and Valve connector A, with 1 LED, Wiring: Z diode, cable length: 2 m, valve connector spacing: 0.2 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Efficient: control valves with two connections via a single connecting cable
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

Item number	1411875
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1DGA
GTIN	4046356943901
Weight per piece (including packing)	200.8 g
Weight per piece (excluding packing)	176.282 g
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	4
No. of cable outlets	1
Shielded	no

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
Seal material	TPU
Material housing valve plug	TPU
Contact material	CuSn
Valve plug contact insert material	PA 6.6
Contact surface material	Sn
Outer sheath, material	PUR

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	24 V AC
	24 V DC
Nominal current I_N	4 A

Signaling

Status display	1 LED
Status display present	yes

Connector

Connection 1

Type	Plug straight M12
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Connection 2

Type	Valve connector A
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carrier)
	TPU (Housing)
Protective circuit	Z diode

Connection 3

Type	Valve connector A
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Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carrier)
	TPU (Housing)
Protective circuit	Z diode

Cable/line

Cable length	2 m
	0.2 m

PUR/PVC, 0.75 mm², black [116]

Dimensional drawing	
Cable weight	57 kg/km
UL AWM Style	20549
Number of positions	4
Shielded	no
Cable type	PUR/PVC, 0.75 mm², black [116]
Conductor structure signal line	24x 0.20 mm
AWG signal line	18
Conductor cross section	4x 0.75 mm²
Wire diameter incl. insulation	1.7 mm ±0.05 mm
External cable diameter	6.30 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, black 3, green/yellow
Overall twist	4 wires, twisted
Max. conductor resistance	26 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km
Nominal voltage, cable	300 V
Test voltage	1200 V
Smallest bending radius, fixed installation	63 mm
Flame resistance	according to DIN VDE 0482
	According to DIN EN 50265-2-1
	in acc. with UL FT-2
Ambient temperature (operation)	-5 °C ... 80 °C (Cable, flexible installation)

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	-40 °C ... 80 °C (cable, fixed installation)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Valve connector)

Standards and regulations

Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

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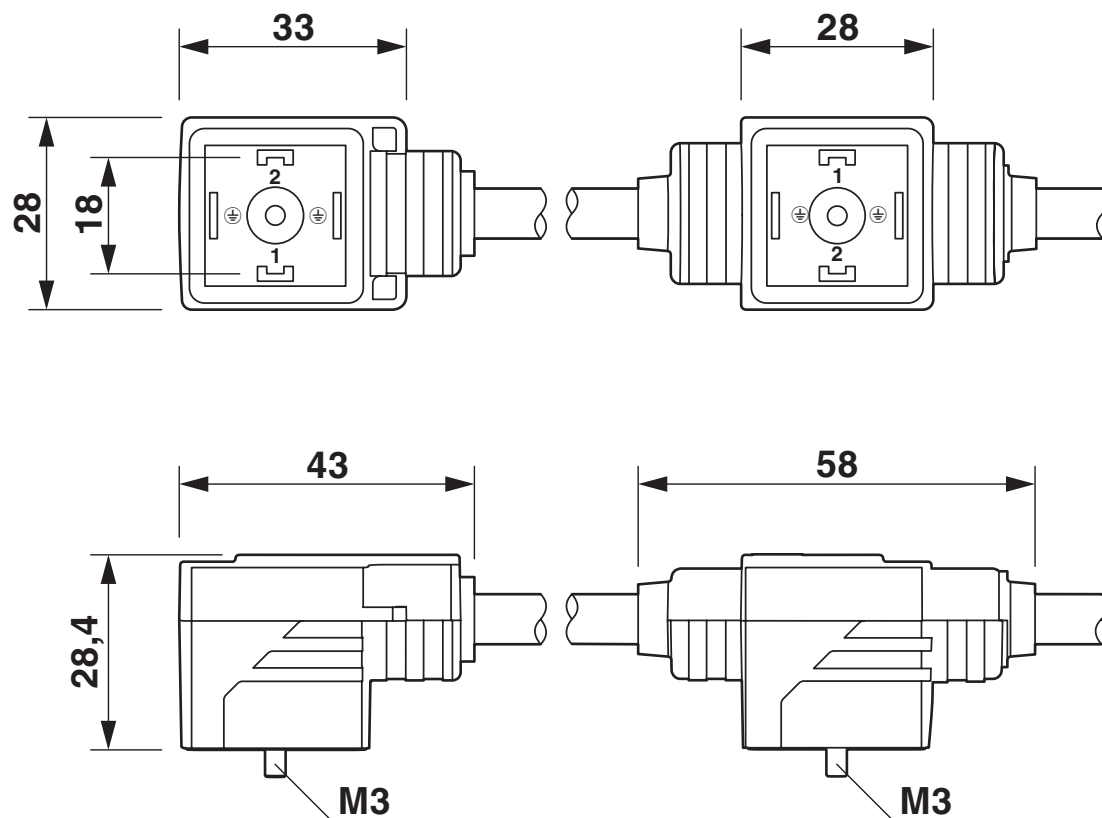


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Drawings

Dimensional drawing



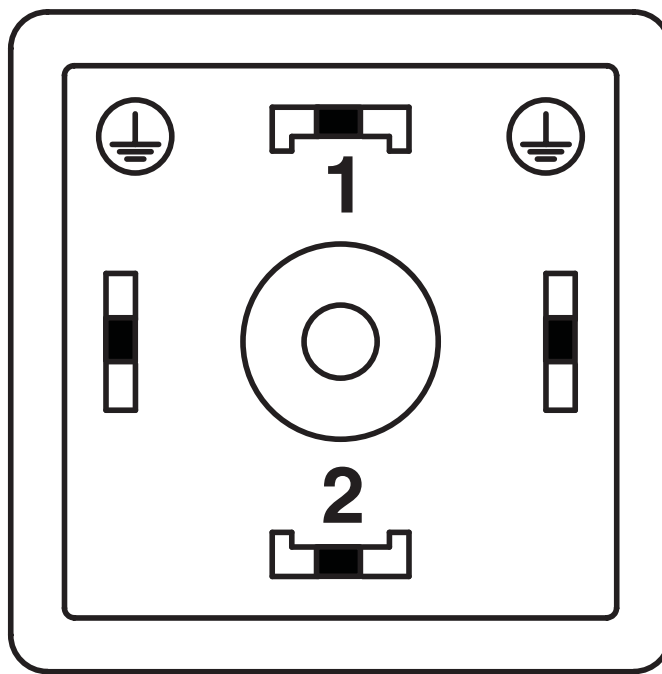
Double valve connector, 2x type A

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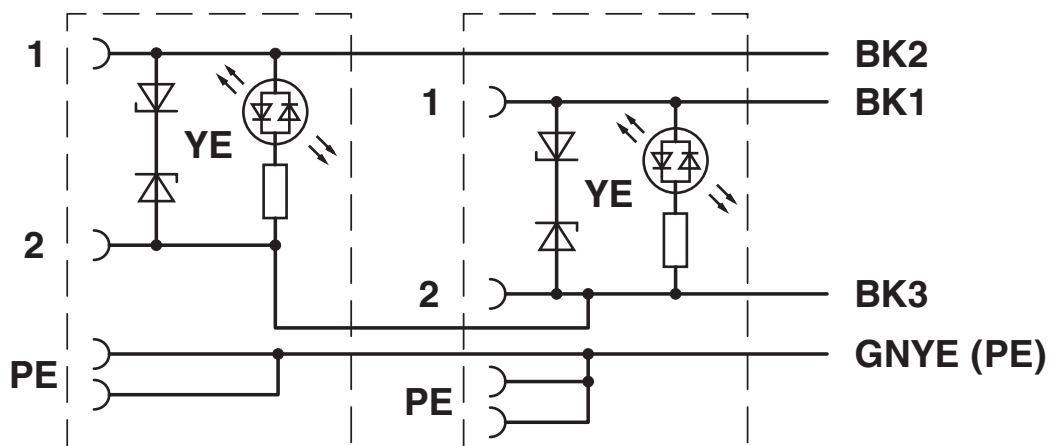
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Schematic diagram



Valve connector pin assignment, type A

Circuit diagram



Contact assignment of the double-valve connector

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Classifications

ECLASS

ECLASS-13.0	27060312
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Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-50 An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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