

SAC-2P-M 8MR/0,68-PUR/CI-1L-Z - Sensor/actuator cable

1403156
<https://www.phoenixcontact.com/us/products/1403156>

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Sensor/actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, Plug angled M8, on Valve connector CI (9.4 mm), with 1 LED, Wiring: Z diode, cable length: 0.68 m

Commercial data

Item number	1403156
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1DOA
GTIN	4046356641074
Weight per piece (including packing)	34.585 g
Weight per piece (excluding packing)	37.9 g
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	2

Connection data

Connection assignment

Contact Color (signal designation) Contact (optional)	3 (M8 plug) BU 2 (Valve connector)
	4 (M8 plug) BN 1 (Valve connector)
	1 (M8 plug) N.C.

Electrical properties

Nominal voltage U_N	24 V AC
	24 V DC

Connector

Connection 1

Type	Plug angled M8
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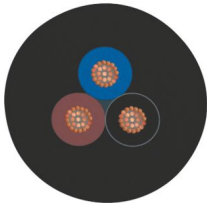
Connection 2

Type	Valve connector CI (9.4 mm)
Protective circuit	Z diode

Cable/line

Cable length	0.68 m
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PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	23 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22

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Conductor cross section	3x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	3.85 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation) approx. 0.50 mm (Outer cable sheath)
Overall twist	3 wires, twisted
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	19 mm
Smallest bending radius, movable installation	38 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 38 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

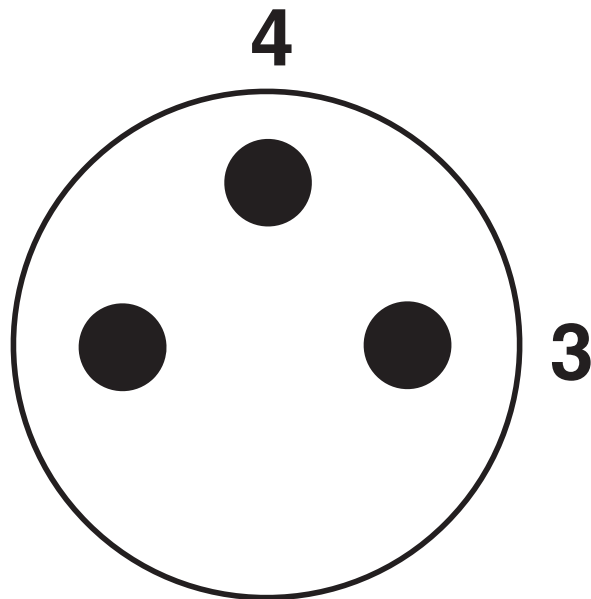
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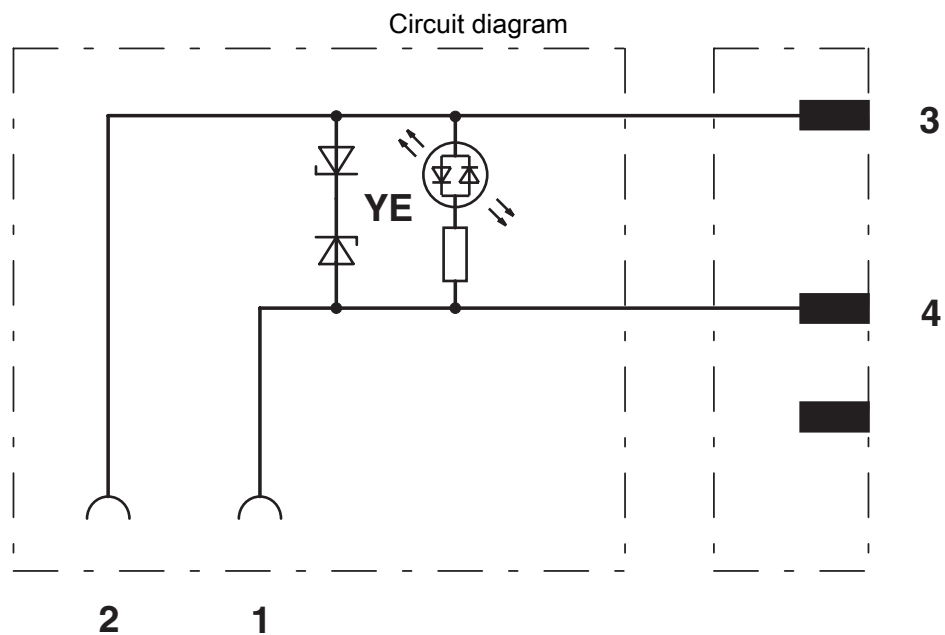
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Drawings

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side



Contact assignment of the M8 plug and the valve connector

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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1403156>

 CSAus Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	24 V	4 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27060312
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ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	31251500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

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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