

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable



1400773

<https://www.phoenixcontact.com/us/products/1400773>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, with 1 LED, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 0.6 m

Commercial data

Item number	1400773
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	AF1DMA
GTIN	4046356511506
Weight per piece (including packing)	47.8 g
Weight per piece (excluding packing)	47.166 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable



1400773

<https://www.phoenixcontact.com/us/products/1400773>

Technical data

Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

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
Material of grip body	TPU
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Contact material	CuSn
Valve plug contact insert material	PA 6.6
Contact surface material	Sn
Material for screw connection	Zinc die-cast, nickel-plated

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Signaling

Status display	1 LED
Status display present	yes

Connector

Connection 1

Type	Plug straight M12
------	-------------------

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable



1400773

<https://www.phoenixcontact.com/us/products/1400773>

Number of positions	3
Coding type	A

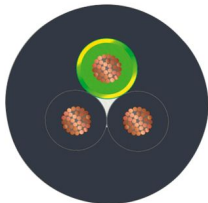
Connection 2

Type	Valve connector BI (11 mm)
Number of positions	3
Material	CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carrier) TPU (Housing)
Protective circuit	Z diode

Cable/line

Cable length	0.6 m
--------------	-------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	3x 0.5 mm²
Wire diameter incl. insulation	1.5 mm ±0.05 mm (Signal line)
External cable diameter	4.50 mm ±0.2 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	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
Max. conductor resistance	39 Ω/km (at 20 °C)
Insulation resistance	min. 20 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 1200 V
Minimum bending radius, fixed installation	5 x D

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable



1400773

<https://www.phoenixcontact.com/us/products/1400773>

Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	22.5 mm
Smallest bending radius, movable installation	45 mm
Dynamic load capacity (bending)	Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN VDE 0482 According to DIN EN 50265-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	largely oil-resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
Ambient temperature (operation) (Valve connector)	-20 °C ... 85 °C (Valve connector)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable

1400773

<https://www.phoenixcontact.com/us/products/1400773>

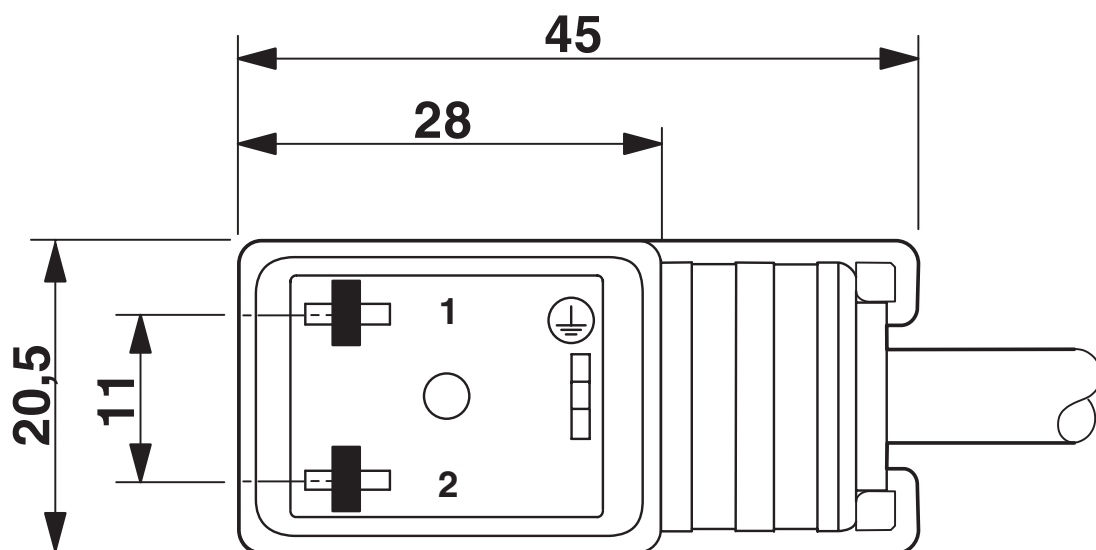
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

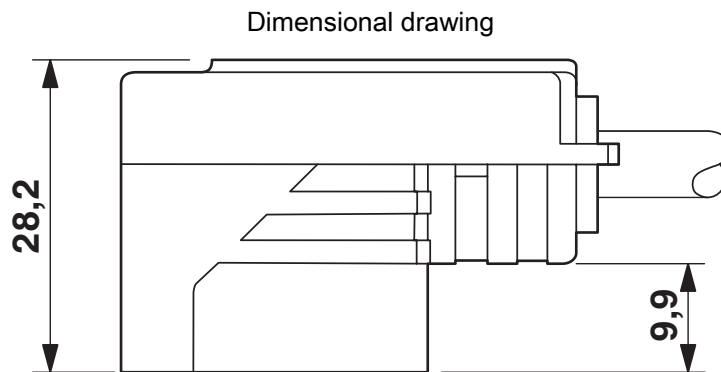


Valve connector, type BI

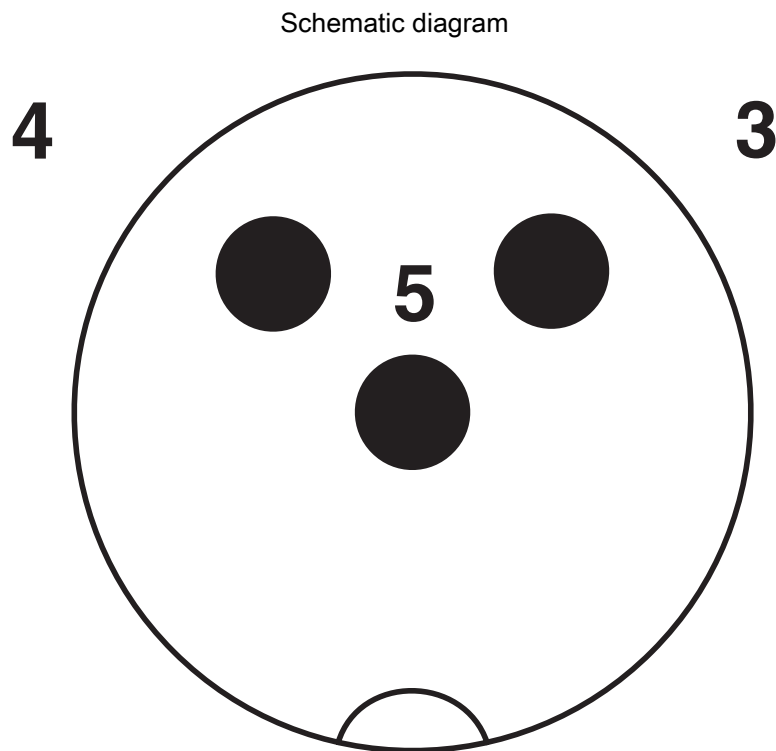
SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable

1400773

<https://www.phoenixcontact.com/us/products/1400773>



Valve connector, type BI, side view

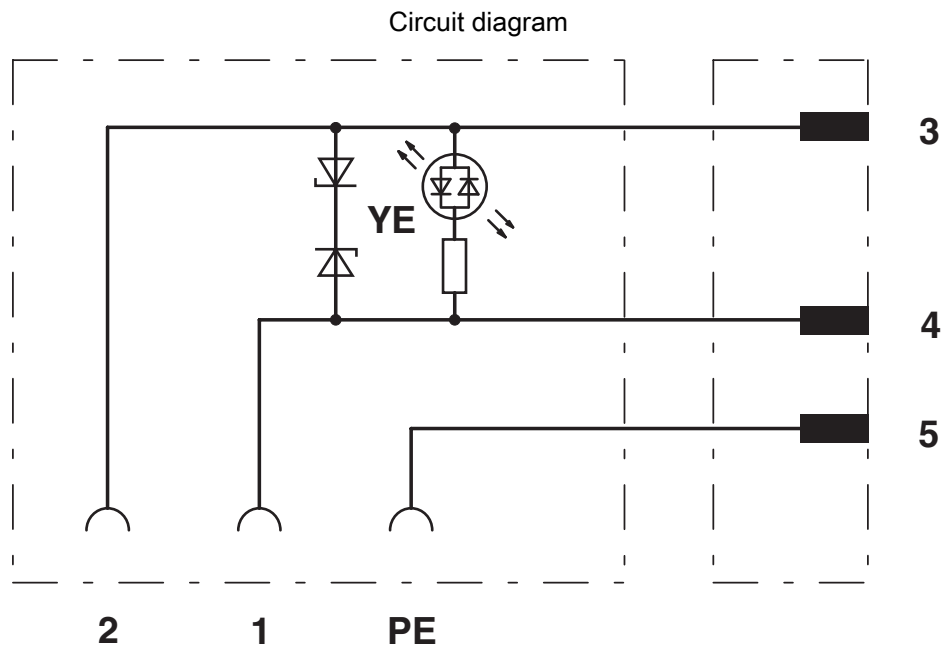


Pin assignment M12 plug, 3-pos., valve connector

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable

1400773

<https://www.phoenixcontact.com/us/products/1400773>



Contact assignment of M12 plug and valve connector


SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable




1400773
<https://www.phoenixcontact.com/us/products/1400773>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1400773>

**EAC-RoHS**
Approval ID: RU D-DE.HB35.B.00387

	CSAus Approval ID: 13631			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	24 V	4 A	-	-

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable



1400773

<https://www.phoenixcontact.com/us/products/1400773>

Classifications

ECLASS

ECLASS-13.0	27060312
ECLASS-15.0	27060312

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	31251500
-------------	----------

SAC-3P-M12MS/0,6-PUR/BI-1L-Z - Sensor/actuator cable



1400773

<https://www.phoenixcontact.com/us/products/1400773>

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.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
SCIP	68628863-4772-4f7d-b1c9-79d206023823

EF3.0 Climate Change

CO2e kg	0.793 kg CO2e
---------	---------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com