

# SAC-3P-M12MR/3,0-PUR/BI-1L-Z - Sensor/actuator cable



1400788

<https://www.phoenixcontact.com/us/products/1400788>

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 angled M12, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 3 m

## Commercial data

Item number	1400788
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF07
Product key	AF1DMA
GTIN	4046356511612
Weight per piece (including packing)	118.1 g
Weight per piece (excluding packing)	118.1 g
Customs tariff number	85444290
Country of origin	PL

# SAC-3P-M12MR/3,0-PUR/BI-1L-Z - Sensor/actuator cable

1400788

<https://www.phoenixcontact.com/us/products/1400788>

## Technical data

### Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	3

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Nominal voltage $U_N$	24 V AC
	24 V DC
Nominal current $I_N$	4 A

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
-----------------------------	------------

### Connector

#### Connection 1

Type	Plug angled M12
Number of positions	3

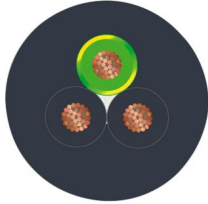
#### Connection 2

Type	Valve connector BI (11 mm)
Number of positions	3
Protective circuit	Z diode

### Cable/line

Cable length	3 m
--------------	-----

#### PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549
Number of positions	3

# SAC-3P-M12MR/3,0-PUR/BI-1L-Z - Sensor/actuator cable



1400788

<https://www.phoenixcontact.com/us/products/1400788>

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 mm <sup>2</sup>
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
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 <sup>2</sup>
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
	IP68

# SAC-3P-M12MR/3,0-PUR/BI-1L-Z - Sensor/actuator cable



1400788

<https://www.phoenixcontact.com/us/products/1400788>

## Classifications

### ECLASS

ECLASS-13.0	27060312
ECLASS-15.0	27060312

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

# SAC-3P-M12MR/3,0-PUR/BI-1L-Z - Sensor/actuator cable



1400788

<https://www.phoenixcontact.com/us/products/1400788>

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - 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](mailto:info@phoenixcon.com)