

## Sensor/Actuator cable - SAC-3P-M 8MR/1,5-PVC/M 8FR-2L - 1415903

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Sensor/Actuator cable, 3-position, PVC, Black RAL 9005, Plug angled M8, on Socket angled M8, with 2 LEDs, Cable length: 1.5 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓



### Key commercial data

Packing unit	1 pc
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	1.5 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

#### General

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ

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### Technical data

#### General

Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
Status display	2 LEDs
Protective circuit/component	Unwired
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100

#### Material

Inflammability class according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

#### Cable

Cable type	PVC black
Cable type (abbreviation)	PVC
Cable abbreviation	LiYY
Conductor cross section	3x 0.25 mm <sup>2</sup> (signal line)
AWG signal line	24
Conductor structure signal line	14x 0.15 mm
Core diameter including insulation	1.17 mm ±0.05 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
External sheath, color	Black RAL 9005
Outer sheath thickness	≥ 0.76 mm
External cable diameter D	4.2 mm ±0.15 mm
Cable weight	29 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Conductor resistance	max. 79 Ω/km (at 20 °C)
Nominal voltage, cable	≥ 300 V

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## Technical data

### Cable

Test voltage, cable	≤ 3000 V
Flame resistance	As per UL-Style 2464

## Classifications

### eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801

### ETIM

ETIM 5.0	EC001855
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## Approvals

### Approvals

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### Approvals

UL Listed / cUL Listed / cULus Listed

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### Ex Approvals

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### Approvals submitted

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## Approval details

UL Listed 	
Nominal current I <sub>N</sub>	4 A
Nominal voltage U <sub>N</sub>	24 V

# Sensor/Actuator cable - SAC-3P-M 8MR/1,5-PVC/M 8FR-2L - 1415903

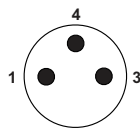
## Approvals

cUL Listed	
Nominal current I <sub>N</sub>	4 A
Nominal voltage U <sub>N</sub>	24 V

cULus Listed	
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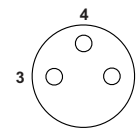
## Drawings

Schematic diagram



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

Schematic diagram



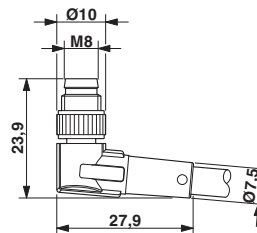
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



PVC black [PVC]

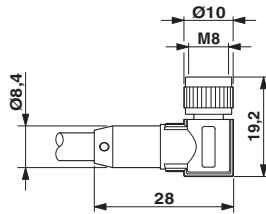
Dimensional drawing



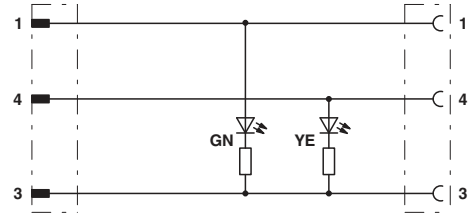
M8 x 1 male plug, angled version

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Dimensional drawing



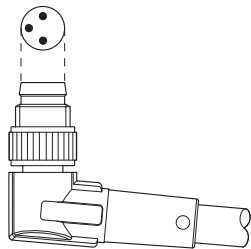
Circuit diagram



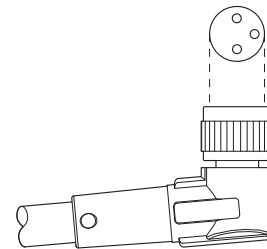
Socket M8 x 1, angled, with LED

Contact assignment of M8 plugs/sockets

Schematic diagram



Schematic diagram



Layout of connector pin assignments

Layout of connector pin assignments