PHŒNIX CONTACT

Sensor/Actuator cable - SAC-3P-M8MR/ 1,5-542/M8 FR BK - 1406284

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Sensor/Actuator cable, 3-position, PVC, Yellow RAL 1021, Plug angled M8, on Socket angled M8, Cable length: 1.5 m

Key commercial data

Packing unit	1
GTIN	4 046356 797689
Custom tariff number	85444290

Technical data

Dimensions

Length of cable	1.5 m

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	60 V
Number of positions	3
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired
Surge voltage category	II

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Technical data

General

Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)

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 yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105°C/300 V)
AWG signal line	24
Core diameter including insulation	1.12 mm ±0.03 mm
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
External sheath, color	yellow
External cable diameter D	4.1 mm ±0.2 mm
Minimum bending radius, flexible installation	8 x D
Cable weight	21 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Nominal voltage, cable	300 V
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

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Classifications

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed

Nominal current IN	4 A
Nominal voltage UN	125 V

cUL Listed

Nominal current IN	4 A
Nominal voltage UN	125 V

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Approvals

cULus Listed

Accessories

Accessories

Protective cap

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs

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Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets

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Screwdriver tools

Tool - SAC BIT M8-D10 - 1208461

Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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Torque tool

Torque screwdriver - TSD 02 SAC - 1208487

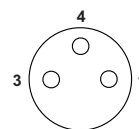Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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Drawings

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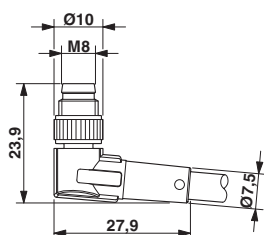
Schematic diagram

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

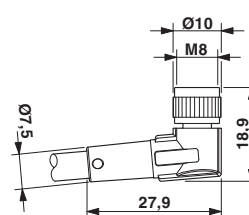### Schematic diagram

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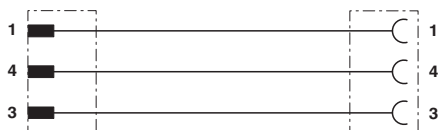
Dimensioned drawing

M8 x 1 male plug, angled version
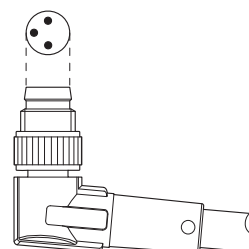
Dimensioned drawing

Socket M8 x 1, angled

Circuit diagram

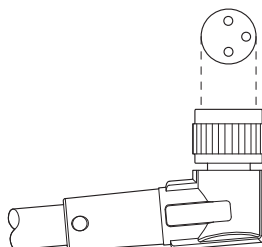Contact assignment of M8 plugs/sockets

Schematic diagram

Layout of connector pin assignments

Schematic diagram

Layout of connector pin assignments