SAC-3P-10,0-PUR/M 8FR-2L - Sensor/actuator cable



1683594

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M8, coding: A, with 2 LEDs, cable length: 10 m $\,$

Your advantages

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

Commercial data

Item number	1683594
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	BF1BBA
Catalog page	Page 188 (C-2-2019)
GTIN	4017918185848
Weight per piece (including packing)	187 g
Weight per piece (excluding packing)	176.3 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product type	Sensor/actuator cable		
Number of positions	3		
Application	Standard		
No. of cable outlets	1		
Shielded	no		
Coding	A		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	24 V DC
Nominal current I _N	4 A
Protective circuit	unwired

Mechanical properties

Mechanical data Insertion/withdrawal cycles	≥ 100
Signaling	
Status display	2 LEDs
Status display present	Yes
Connection data	

Connection data

Conductor connection	
Tightening torque	0.2 Nm (M8 connectors)

Connector



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Connection 1	
Туре	free cable end
Connection 2	
Туре	Socket angled M8
Number of positions	3
Coding type	A
Cable/line	
Cable length	10 m
PUR halogen-free black [PUR]	

Dimensional drawing



Cable weight	18 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	3x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	3.60 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)
Thickness, outer sheath	approx. 0.50 mm
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Max. conductor resistance	≤ 78 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	18 mm



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Smallest bending radius, movable installation	36 mm	
Max. bending cycles	1000000	
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	hydrolysis and microbe resistant	
	Highly resistant to acids, alkaline solutions and solvents	
	Resistant to salt water	
	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)	

Environmental and real-life conditions

Ambient conditions

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

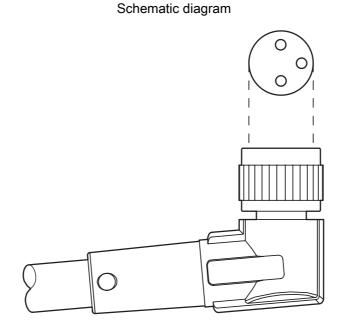
Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104



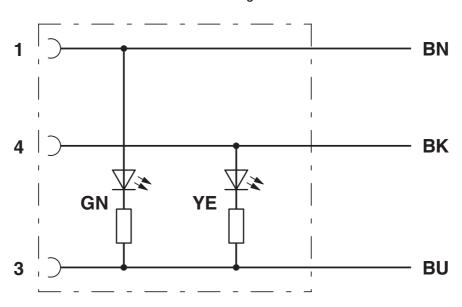
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Drawings



Layout of connector pin assignments

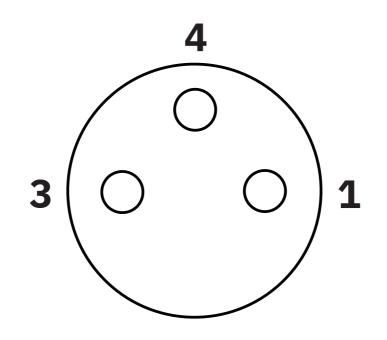
Circuit diagram





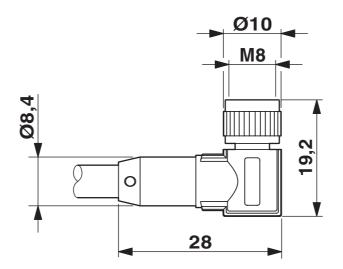
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Schematic diagram



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

Dimensional drawing



Socket M8 x 1, angled, with LED

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Approvals

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	UL Listed Approval ID: FILE E 221474	i			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		24 V	4 A	-	-
<u>.</u>	CUL Listed Approval ID: FILE E 22147	4			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		24 V	4 A	-	-

cULus Listed



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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		

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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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