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Sensor/actuator flush-type plug, 8-pos., M12, A-coded, front/screw mounting with M20 x 1.5 thread, with 0.5 m TPE litz wire, 8 x 0.25 mm², brass housing

Product Features

V



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	40.0 GRM
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	0.5 m
Length of cable	0.5 111

Ambient conditions

Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
Degree of protection	IP67
	IP69K

General

Note	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	2 A
Rated voltage	30 V
Number of positions	8



Technical data

General

Contact resistance	$\leq 3~\text{m}\Omega$
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Surge voltage category	II
Pollution degree	3
Connection method	Individual wires
Insertion/withdrawal cycles	> 100
Torque	3 Nm 4 Nm (Installation-side)
Mounting type	Front mounting M20 x 1,5

Material

Inflammability class according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 66
Material, knurls	Brass
Sealing material	NBR

Cable

Cable type	TPE litz wire
Conductor cross section	0.25 mm²
AWG signal line	24
Conductor structure signal line	14x 0.15 mm
Core diameter including insulation	1.15 mm ±0.07 mm
Thickness, insulation	0.21 mm
Wire colors	white, brown, green, yellow, gray, pink, blue, red
Material conductor insulation	TPE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	\geq 20 M Ω *km
Conductor resistance	≤ 80 Ω/m
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)
	-25 °C 85 °C (cable, flexible installation)



Classifications

eCl@ss

eCl@ss 4.0	27250313
eCl@ss 4.1	27250313
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27279220
eCl@ss 7.0	27440103
eCl@ss 8.0	27440103

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002062
ETIM 5.0	EC002061

UNSPSC

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

Approvals

Α	n	n	r	W	al	S

Approvals

cULus Recognized / UL Recognized

Ex Approvals

Approvals submitted

Approval details



Approvals

cULus Recognized		
mm²/AWG/kcmil 22		
Nominal current IN 2 A		
Nominal voltage UN 30 V		

UL Recognized 5	
mm²/AWG/kcmil	26-20
Nominal current IN	2 A
Nominal voltage UN	30 V

Drawings

Dimensional drawing



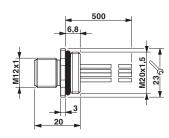
Schematic diagram



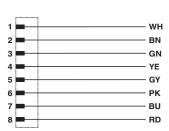
Housing cutout for M20 fastening thread, mounting panel with thread

Pin assignment M12 plug, 8-pos., A-coded, view plug side

Dimensional drawing



Circuit diagram



M12 flush-type plug

Contact assignment of the M12 plug and the M12 socket