

1437193

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Sensor/actuator flush-type plug, 5-pos., M12, shielded, A-coded, rear/screw mounting with M12 thread, with polarity protection, with straight solder connection





# Your advantages

• Standard pin assignments and codings for signal transmission with a uniform design-in design

### Commercial data

Item number	1437193
Packing unit	10 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQEGA
GTIN	4046356460378
Weight per piece (including packing)	12.02 g
Weight per piece (excluding packing)	8.71 g
Customs tariff number	85366990
Country of origin	DE



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# Technical data

#### Notes

Notes on operation  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.

# Mounting

Mounting type	Rear mounting (M12 x 1, with locking nut)
Tightening torque	1 Nm 1.5 Nm (Installation-side)

# Product properties

Product type	Circular connectors (device side)
Number of positions	5
Shielded	yes
Coding	A
Thread type	M12

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

# Material specifications

Material Housing	CuZn
Material Housing surface	Ni
Material Insulating body	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Material Seal	NBR
Flammability rating according to UL 94	НВ

# Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	60 V
Nominal current I <sub>N</sub>	4 A

### Connection data

Conductor	connection

Connection method	Wave soldering
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Contact connection type	Pin
Tightening torque	1 Nm 1.5 Nm (Installation-side)

# Mechanical properties

#### Mechanical data

	Insertion/withdrawal cycles	> 100

### Connector

#### Connection 1

Head design	Pin	
Head cable outlet	straight	
Head thread type	M12	
Coding	A	

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

# Standards and regulations

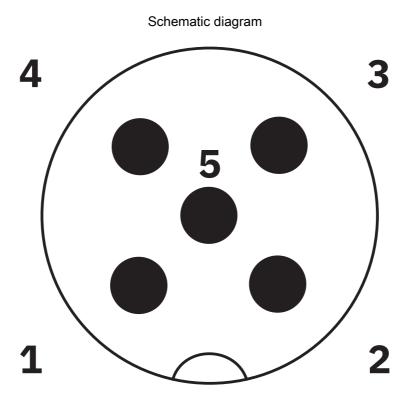
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-101



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# Drawings



Pin assignment M12 male connector, 5-pos., A-coded, male side



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# Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1437193

cUL Recognized Approval ID: FILE E 221474					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		60 V	4 A	-	-

UL Recognized Approval ID: FILE E 221474					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		60 V	4 A	-	-

<i>71</i>	UL Recognized Approval ID: E221474-20070307				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		60 V	4 A	-	<u>-</u>

. <b>51</b> 2	CUL Recognized Approval ID: E221474-20070307				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		60 V	4 A	-	-



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# Classifications

### **ECLASS**

	ECLASS-13.0	27440110
	ECLASS-15.0	27440110
Εī	ТІМ	
	ETIM 9.0	EC003568
U	NSPSC	
	UNSPSC 21.0	39121400



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# Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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.)	Lead(CAS: n/a)
SCIP	e9cbe4e6-3d24-4c34-8e17-66668c187cb5

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