

1694211

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Sensor/actuator flush-type plug, 5-pos., M12, 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	1694211
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AB23
Product key	ABQEGI
Catalog page	Page 189 (C-2-2013)
GTIN	4017918177492
Weight per piece (including packing)	12.106 g
Weight per piece (excluding packing)	11.88 g
Customs tariff number	85366990
Country of origin	HU



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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
Assembly note	With locking nut

# Product properties

Product type	Circular connectors (device side)
Number of positions	5
Shielded	no
Coding	A
Thread type	M12

### Data management status

Article revision 0.	2
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#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

#### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Brass, nickel-plated

# Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	60 V
Nominal current I <sub>N</sub>	4 A

### Connection data



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#### Conductor connection

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

## Mechanical properties

#### Mechanical data

Insertion/withdrawal cy	/cles	> 100
	70100	100

#### Connector

#### Connection 1

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

#### Connection 2

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

### Cable/line

Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)
	-25 °C 85 °C (Cable, flexible installation)

### Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
	IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 85 °C (Cable, flexible installation)
	-40 °C 85 °C (cable, fixed installation)

# Standards and regulations

#### M12

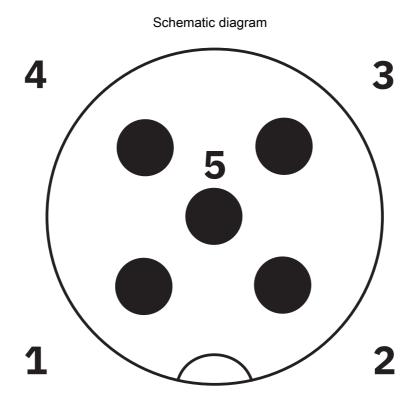
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



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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/1694211

. <b>51</b> 2	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>
		60 V	4 A	-	-

<i>9</i> 7	UL Recognized Approval ID: FILE E 221474				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	4 A	-	-

UL 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>
		60 V	4 A	-	-

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



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# Classifications

### **ECLASS**

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ЕТ	TIM		
	IIVI		
	ETIM 9.0	EC002635	
UNSPSC			
	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: 7439-92-1)
SCIP	352d964b-b813-4de3-8c89-54071756fc73

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