

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	10 pc
Product key	ABQEGA
Catalog page	Page 262 (C-2-2013)
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	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.
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#### 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	yes
Coding	A
Thread type	M12

#### Data management status

#### 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	Au
Contact carrier material	PA 6.6
Material for screw connection	Brass, nickel-plated

#### 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



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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 cycles	> 100

#### Connector

#### Connection 1

Head design	Pin
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

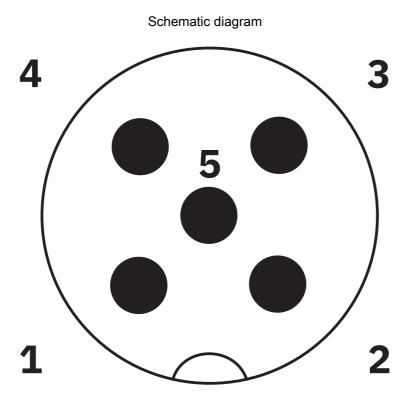
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



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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/pc/products/1437193

. <b>51</b> 2	<b>cUL Recognized</b> Approval ID: FILE E 221	474			
		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	-	-

<b>71</b>	<b>UL Recognized</b> Approval ID: FILE E 221	474			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	4 A	-	-

71	UL Recognized Approval ID: E221474-20	070307			
		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	-	-

. <b>71</b> 2	<b>cUL Recognized</b> Approval ID: E221474-2	0070307			
		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**

UNSPSC 21.0

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 9.0	EC002635
UNSPSC	

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	e9cbe4e6-3d24-4c34-8e17-66668c187cb5	

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