

1437203

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

Your advantages

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

Commercial data

Item number	1437203
Packing unit	10 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQEGA
Catalog page	Page 189 (C-2-2013)
GTIN	4046356460392
Weight per piece (including packing)	12.03 g
Weight per piece (excluding packing)	12.03 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	В
Thread type	M12

Data management status

on O1
on

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	НВ
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 _N	60 V
Nominal current I _N	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
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Connector

Connection 1

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

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

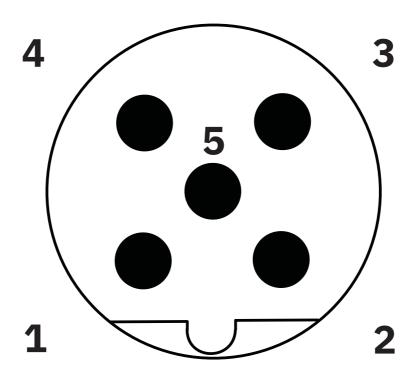


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Drawings

Schematic diagram



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1437203

. 7.1	cUL Recognized Approval ID: FILE E 221	474			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		60 V	4 A	-	-

71	UL Recognized Approval ID: FILE E 221474					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		60 V	4 A	-	-	

71	UL Recognized Approval ID: E221474-20070307					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		60 V	4 A	-	-	

.71	cUL Recognized Approval ID: E221474-20070307					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		60 V	4 A	-	-	



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Classifications

ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ΕT	ТМ	
	ETIM 9.0	EC002635
UN	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: 7439-92-1)
SCIP	6a230e39-011a-4ebd-868a-4407da2a4182

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