Product data sheet

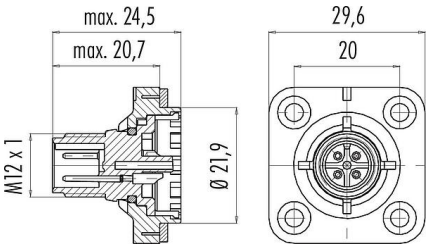
Automation technology - Sensors and actuators

Product description	**M12 Square male panel mount connector, Contacts: 4, unshielded, solder, IP40, M3 (4x), Front mounting, Positionable coding alignment**
Area	**M12-A**
Coding	**A-coded**
Series	**763**
Part no.	**09 0431 16 04**

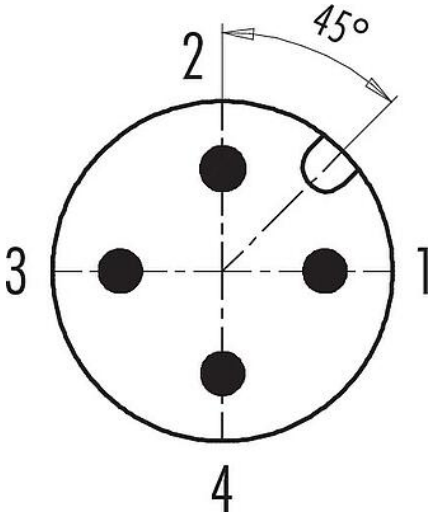
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	09 0431 16 04
Connector design	Square male panel mount connector
Type standard	DIN EN 61076-2-101
Coding	A-coded
Version	Connector pin straight
Connector locking system	screw
Termination	solder
Degree of protection	IP40 IP67 with seal, see accessories
Connection cross-section	0.75 mm² / AWG 18
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 50 Mating cycles
Weight (g)	6.91
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	250 V
Rated impulse voltage	2500 V

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Rated current	4.0 A
Insulation resistance	> 10^8 Ω
Pollution degree	3
Overvoltage category	II
Insulating material group	III
EMC compliance	unshielded

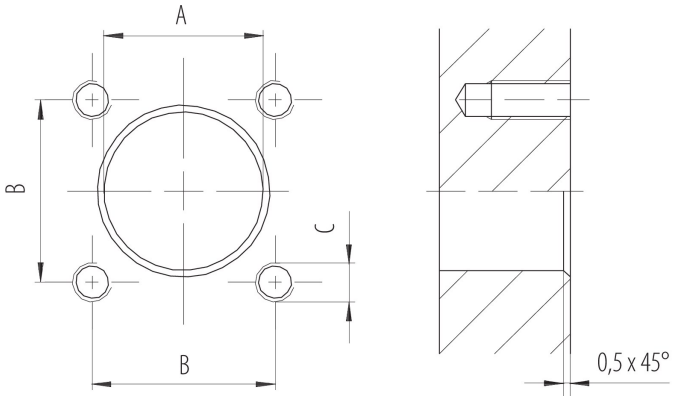
Material

Housing material	PA66 (UL94 HB)
Contact body material	PA (UL94 HB)
Contact material	CuZn (brass)
Contact plating	CuSnZn (Optalloy)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	2a9a5f06-553b-4495-8b1c-48d4b610fb75

Classifications

eCl@ss 11.1	27-44-01-09
ETIM 9.0	EC003569

Assembly instructions / Panel cut-out



Housing	**A** (mm)	**B** (mm)	**C** (mm)
Metal	12,2	14,0	M3 (4x)
Plastic	22,0	20,0	M3 (4x)

Requirements for Degree of protection IP67:

1. *Metal housing:*
   Use of sealing, Ordering-No. 16 0959 000
2. *Plastic housing:*
   Use of sealing, Ordering-No. 16 8091 000
3. *M3 thread (4x) sealed as a threaded blind holes or screw heads*

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Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).

The user must take appropriate safety precautions to ensure that the connector cannot be accidentally disconnected. In addition, the user must ensure that the cable is suitably secured.