Product data sheet

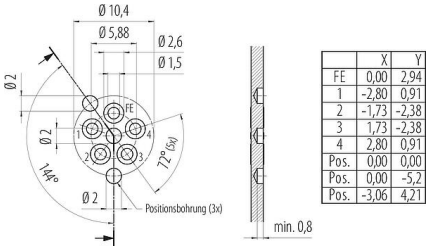
Automation technology - Voltage and Power Supply

Product description	**M12 Male panel mount connector, Contacts: 4+FE, unshielded, THR, IP67, UL 2238, M16x1.5, Front mounting**
Area	**M12-L**
Coding	**L-coded**
Series	**823**
Part no.	**99 0641 20 05**

Illustration (may vary)

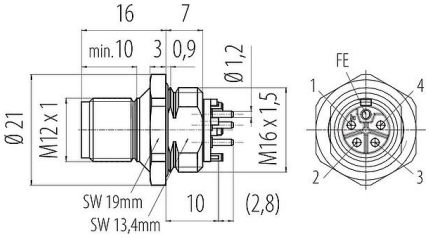


Conductor layout

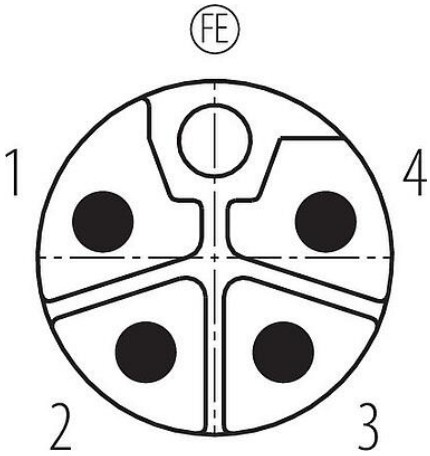


	X	Y
FE	0,00	2,94
1	-2,80	0,91
2	-1,73	-2,38
3	1,73	-2,38
4	2,80	0,91
Pos.	0,00	0,00
Pos.	0,00	-5,2
Pos.	-3,06	4,21

Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 0641 20 05
Connector design	Male panel mount connector
Type standard	DIN EN IEC 61076-2-111:2018-10;VDE 0687-76-2-111:2018-10
Coding	L-coded
Version	Connector pin straight
Connector locking system	M12x1
Termination	THR

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Degree of protection	IP67
Temperature range from/to	-40 °C / 105 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	15.16
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	63 V
Rated impulse voltage	1500 V
Rated current	16.0 A
Insulation resistance	> 10^{10} Ω
Pollution degree	3
Overvoltage category	III
Insulating material group	I
EMC compliance	unshielded

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PA (UL94 V-0)
Contact material	CuZn (brass) / CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	dd185b76-ba4b-4ead-9ac2-b26394a53d09

Authorization/approvals

Approvals	UL 2238

Classifications

eCl@ss 11.1	27-44-01-02
ETIM 9.0	EC002635

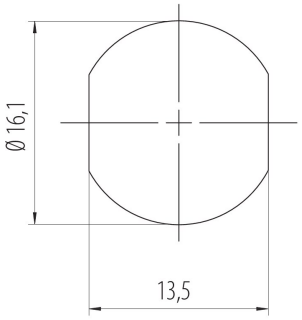
Product data sheet

Automation technology - Voltage and Power Supply

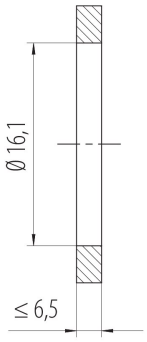
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Assembly instructions / Panel cut-out

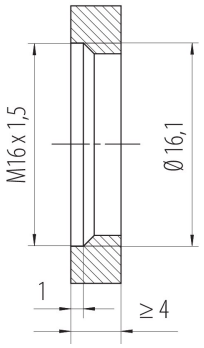
With flats as anti-rotation device



With bore hole



With thread to screw in



Tightening moment

Metal housing	3,00 Nm
Plastic housing	1,25 Nm

Product data sheet

Automation technology - Voltage and Power Supply

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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.

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.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

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