Product data sheet

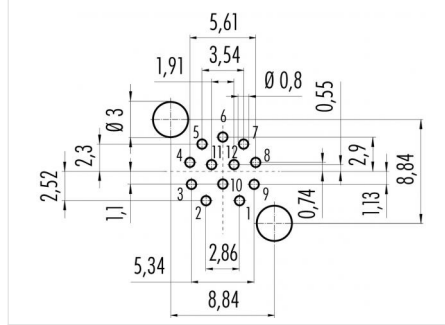## Automation technology - sensors and actuators

binder

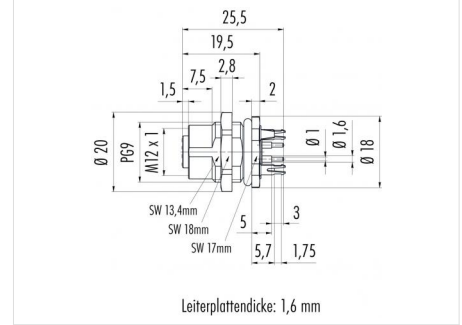|	
Product description	**M12-A female panel mount connector, Contacts: 12, shielded, dip-solder, IP68, UL, PG9**
Area	**M12-A series 713**
Order number	**86 0532 1120 00012**

Illustration

Conductor layout

Scale drawing

Leiterplattendicke: 1,6 mm

Contact arrangement (Plug-in side)

	X	Y		
1	-2,80	0,78	1	braun/brown
2	-0,78	2,80	2	blau/blue
3	1,09	2,69	3	weiß/white
4	2,51	1,46	4	grün/green
5	2,88	-0,37	5	rosa/pink
6	2,05	-2,05	6	gelb/yellow
7	0,37	-2,88	7	schwarz/black
8	-1,46	-2,51	8	grau/grey
9	-2,69	-1,09	9	rot/red
10	-0,78	0,78	10	violett/purple
11	1,06	0,29	11	grau/rosa/grey/pink
12	-0,29	-1,06	12	rot/blau/red/blue

Geschirmte Versionen: Schirm auf Gehäuse
Shielded versions: *shield on housing*

You can find the assembly instructions on the next page.

Technical data

General values

Notice	Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right.
Connector design	female panel mount connector
Connector locking system	screw
Termination	dip-solder
Upper limit temperature	85 °C
Lower limit temperature	– 40 °C
Customs tariff number	85369010
Packaging Unit	20

Electrical values

Rated current (40 °C)	1.5 A (2 A UL)
Rated voltage	30 V
Rated impulse voltage	500 V
Pollution degree	3
Overvoltage category	II
Insulating material group	III
Insulation resistance	$> 10^8 \, \Omega$
EMC compliance	shielded
Degree of protection	IP68
Mechanical operation	> 100 Mating cycles

Cable data

Approval 1	UL

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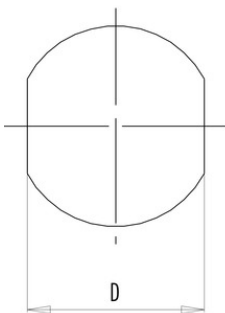## Technical data

Material

Contact material	CuSn (bronze)
Contact plating	Au (gold)
Contact body material	PA
Housing material	CuZn (Brass nickel plated)
REACH SVHC	CAS 80-05-7 (4,4'-isopropylidendiphenol)
	CAS 7439-92-1 (Lead)
	CAS 61788-32-7 (Terphenyl, hydrogenated)

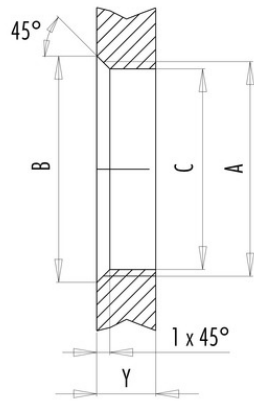|	
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Assembly instructions / Panel cut-out

With flats as anti-rotation device

With bore hole

45°

1 x 45°

Installation direction:
o-ring sits on chamfer.

Thread	Measures			Tightening torque	
A	B (mm)	C (mm)	D (mm)	Metal housing/ Positioning sleeve	Plastic housing/ Positioning sleeve
PG 9	16,2	15,3	13,5	1,25 Nm	1,25 Nm
PG 11	20,2	18,7	17,0	2 Nm	–
PG 13,5	21,5	20,5	–	2 Nm	–
M12 x 0,5	–	12,1	–	–	0,4 Nm
M12 x 1	–	12,2	–	1 Nm	–
M14 x 1	15,2	14,2	–	1,25 Nm	–
M16 x 1,5	17,0	16,1	13,5	1,25 Nm	1,25 Nm
M20 x 1,5	21,0	20,1	–	2 Nm	1,25 Nm

Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible [1]	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 [2]	[3]1,5/[4]2	6,5

Notes
[1] Do not attach a chamfer
[2] Wall thickness:
use locknut 01-5385
up to 1,5 mm,
>1,5 mm cut thread
[3] Nut
[4] Thread in wall of housing

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Security notices

The connectors are designed for use in plant, control system and electrical equipment. The end user is responsible for checking whether the connectors are suitable for use in other applications.

Connectors with degree of protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the connectors must be separately protected against corrosion. For further information about IP degrees of protection refer to 'Technical support' in the Download Centre.