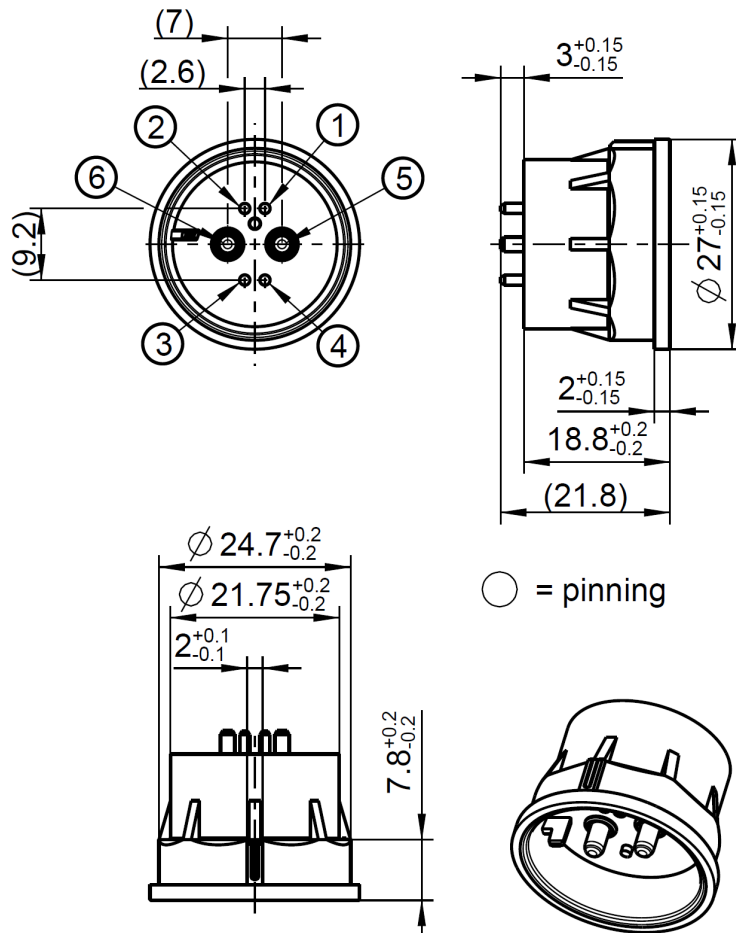




All dimensions are in mm

Documents

Interface
Panel piercing

Rosenberger internal standard
MB_462

Material and plating

Parts

Housing
Casting compound
Magnets

Material

PBT-GF30 FR
PU casting resin
NdFeB

Plating / Colour

black, sim. RAL 9005
Nickel

Pins 1-4:

Contact Pin

Brass

Gold, 0,15 µm

Pins 5-6:

Power Pin

Copper

Silver, min. 3 µm

Electrical data

Pins 1-4:

Insulation resistance $\geq 100 \text{ M}\Omega$
Contact resistance $\leq 40 \text{ m}\Omega$ initial
Working voltage 12 V
Max. Current 3 A per pin

Pins 5-6:

Insulation resistance $\geq 100 \text{ M}\Omega$
Power current $\leq 30 \text{ A DC}$
Contact resistance $\leq 7 \text{ m}\Omega$
Working voltage $\leq 60 \text{ V DC}$

Mechanical data

Locking mechanism magnetic
Mating cycles min. 2500
Disengagement force min. 20N
Weight 14 g

Warning!

Customer is responsible for implementing adequate safety measures:

Power supply to Pins 5 & 6 must be deactivated unless they are completely plugged in.

Power to pins 5 & 6 must only be activated upon full insertion of signal pins 1 - 4.

Misuse may damage contact!

Technical Data Sheet

Rosenberger

RoPD®

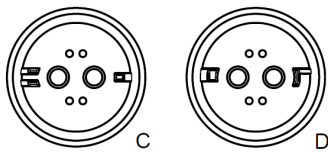
MAGNETIC
WATERPROOF PLUG

M4S109-400B5-Y

Environmental data

Temperature range	-40°C to +65°C
Thermal shock	DIN IEC 60068-2-14 Test Na
Temperature and humidity	DIN EN 60068-2-30 (2)
Vibration resistance	3 axes, 6h, 10Hz-180Hz, 12.38m/s ²
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
Dust and water resistance (Interface)	DIN-EN-60529 IP 65; unmated
Dust and water resistance	DIN-EN-60529 IP 64 / IP 67; mated
Glow-wire flammability test for end-products (GWT850°C; GWT750°C)	IEC 60695-2-11:2014
RoHS	compliant

Coding



Packing

Standard 300 pcs / box

Not suitable for reflow soldering.

Caution!

Magnets can impact the function of pace makers and implantable cardioverter-defibrillators (e.g. actuation of reed switch). Keep a minimum distance of 0,2m (20cm) between the magnetic connector and the implanted devices to prevent malfunction and danger to health.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Steinbach	11.01.17	C. Biermann	27.05.21	500	21-1019	F. Huber	27.05.21
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