



All dimensions are in mm

Documents

Interface

Rosenberger internal standard

Material and plating

Parts

	Material	Plating / Colour
Housing	PBT-GF30 FR	black, sim. RAL 9005
Casting compound	PU casting resin	
Magnets	NdFeB	Nickel
Sealing	Silicone	
Pins 1-4:		
Contact Pin	Brass	Gold
Pins 5-6:		
Power Pin	Copper	Nickel

Electrical data

Pins 1-4:

Insulation resistance	≥ 100 MΩ
Contact resistance	≤ 40 mΩ initial
Working voltage	12 V
Max. Current	3 A per pin

Pins 5-6:

Insulation resistance	≥ 100 MΩ
Power current	≤ 25 A DC
Contact resistance	≤ 7 mΩ
Working voltage	≤ 60V DC

Mechanical data

Locking mechanism	magnetic
Mating cycles	min. 2500
Disengagement force	min. 20N
Weight	15 g

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

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!

Mounting note

Required screws M3, countersunk head, non magnetic
Tightening torque 25 Ncm

Suitable cables

Cable type
Pins 1-4:
Wire Cross Section: 0.35 mm²
Pins 5-6:
Wire Cross Section: 2.5 mm²

Packing

Standard depends on wire length

Connector is only available with cable

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
H. Kreitmaier	02.08.11	C. Biermann	04.11.20	700	20-1981	F. Huber	04.11.20
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 3 / 3