



○ = pinning

All dimensions are in mm

**Documents**

Interface  
Handling instruction

Rosenberger internal standard  
HI\_003

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RF\_35/09;14/6.2

**Material and plating**

**Parts**

Housing  
Dielectric  
Magnets  
Sealing  
Bend Protection

**Material**

PBT-GF30 FR  
PBT-GF30 FR  
NdFeB  
Silicone  
TPU

**Plating / Colour**

black, sim. RAL 9005  
black, sim. RAL 9005  
Nickel

**Pins 1-4:**

Contact Pin

Brass

Gold, 0,4 µm (contact)

**Pins 5-6:**

Power Pin  
Contact spring

Brass  
Beryllium copper

White bronze (e.g. Optalloy®), min. 2 µm  
Silver, min. 3 µm

**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 ≤ 10 A DC  
Contact resistance ≤ 7 mΩ  
Working voltage ≤ 60V DC

**Mechanical data**

Locking mechanism magnetic  
Mating cycles min. 2500  
Disengagement force min. 20N  
Weight 22 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!**

**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 <sup>2</sup>
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
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

**Suitable cables**

Cable type	
<b>Pins 1-4:</b>	
Wire Cross Section:	0.35 mm <sup>2</sup>
<b>Pins 5-6:</b>	
Wire Cross Section:	1.0 mm <sup>2</sup>
Part Nr.:	RTK-HV02

**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
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