Technical Data Sheet

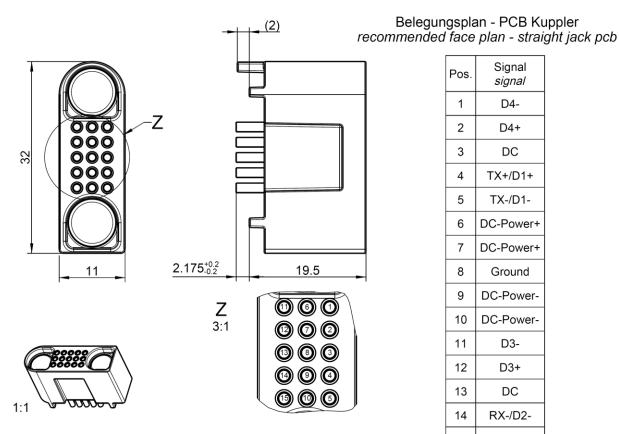
Rosenberger

Belegungsplan - PCB Kuppler

MultiMag 15

Receptacle (Solder Cup Termination)

M9K102-199L



Pos.	Signal signal
1	D4-
2	D4+
3	DC
4	TX+/D1+
5	TX-/D1-
6	DC-Power+
7	DC-Power+
8	Ground
9	DC-Power-
10	DC-Power-
11	D3-
12	D3+
13	DC
14	RX-/D2-
15	RX+/D2+

All dimensions are in mm; tolerances according to ISO 2768 m-H

General Information

Magnetic connector

Coding

Number and type of contacts

Soldering

mechanical 15 rigid pins

Solder cup for pre-tinned wire with cross section 0.25 mm²

Interface

Mating with

MultiMag 15 cable assembly

Material and Plating

Connector parts

Insulator Contact Magnets

Material **Plating**

PBT white, similar RAL 9003 Brass AuroDur®, gold plated

NdFeB N52 Nickel

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Flammability Rating

Connector parts Insulator

Category

uncolored raw material acc. to UL94 V-0*

*Please note that a non UL rated color batch is added

Electrical Data

Operating voltage 12 V
Operating current max. 4.5 A

 $\begin{array}{cc} & \text{max. 1.5 A per contact} \\ \text{Contact resistance} & \text{typically} \leq 60 \text{ m}\Omega \\ \text{Impedance} & \sim 100 \Omega \text{ differential pairs} \end{array}$

Mechanical Data

Mating cycles without load min. 10.000
Mating cycles under load min. 1.000
Magnetic retention force average ~ 14 N

Environmental Data

Temperature range -25 °C to +65 °C

Magnets start losing their magnetic properties above 65 °C

Chemical resistance Isopropanol 70 %

Compliance

RoHS compliant

Packing

Standard 25 pcs in blister Weight ~ 16.4 g/pc

Caution!

Magnets can impact the function of pace makers and implantable cardioverter-defibrillators (e.g. actuation of reed switch). Keep a minimum distance of 0.2 m (20 cm) 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. Wurm	12.06.2015	T. Scheuerlein	18.02.2019	a00	19-s062	S. Doerr	18.02.2019

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