

All dimensions are in mm; tolerances according to ISO 2768 m-H
EMC-screening must be assured by chassis compartment. Control box manufacturer is responsible for EMC-screening.

Interface

According to RN_059-01

Documents

Assembly instruction D4V013
Panel piercing MB_261
Pinning instruction RN_053-01
Test specification RN_061-01

Material and plating

Connector parts

Center contact

Outer contact (Interface)
Outer contact (PCB)
Cover
Dielectric
Housing

Material

Spring bronze

Brass
Zinc Alloy
Alpaca
LCP
PA 6T/66

Plating

Gold, 0.15 µm (Interface)
Tin, 0.5-2 µm (PCB)
Nickel, 3-6 µm
Tin, 2-5 µm, over nickel 1-5 µm

Electrical data

Impedance, differential mode	100 Ω differential signalling, for one pair or quad cable shielded
Frequency	DC to 2.0 GHz
Return loss	≥ 20 dB, DC to ≤ 1 GHz ≥ 17 dB, > 1 GHz to ≤ 2 GHz
Insertion loss	≤ 0.1 dB @ 1.0 GHz
Skew (between signal contacts)	≤ 5 psec
Nearend-Crosstalk	≤ 30 dB
Farend-Crosstalk	≤ 35 dB
Insulation resistance	≥ 1x10 ³ MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Test voltage	250 V rms
Working voltage	100 V rms
Power current	≤ 1.5 A DC
RF-leakage (shielding effectiveness)	≥ 75 dB up to 1 GHz (IEC 62153-4-7) ≥ 65 dB up to 2 GHz (IEC 62153-4-7)

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 80 N

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14 Test NA
Temperature and humidity	USCar 2 – 4 5.6.2
Vibration (Random)	DIN IEC 60068-2-64
Mechanical shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
Soldering profile	acc. to IEC 60068-2-58; Group 3&4
RoHS	compliant

Packing





Standard	175 pcs in tape & reel 1050 pcs (175 pcs in tape & reel, 6 reels in box) a
Weight	8.6 g

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S20G-400A5-A
B		white	sim. 9001	D4S20G-400A5-B
C		blue	sim. 5005	D4S20G-400A5-C
D		bordeaux	sim. 4004	D4S20G-400A5-D
E		green	sim. 6002	D4S20G-400A5-E
F		brown	sim. 8011	D4S20G-400A5-F
Z		waterblue	sim. 5021	D4S20G-400A5-Z

Coding for special use

Part number has to be accomplished by codification

Control box manufacturer is responsible for pinning

Coding	Plug	Colour	RAL	Part-Number
G		grey	sim. 7031	D4S20G-400A5-G
H		violet	sim. 4003	D4S20G-400A5-H
J		beige	sim. 1001	D4S20G-400A5-J
O		light green	sim. 6027	D4S20G-400A5-O

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Technical Data Sheet

Rosenberger

Rosenberger
HSD®

RIGHT ANGLE PLUG
FOR PCB

D4S20G-400A5-Y

Change History

Rev.	Date	Change
g00	02.06.16	Bundle size changed from "1200 pcs in box (6 X 200 pcs in blister tray)" To "1050 pcs in box (6 x 175 pcs/reel)"
h00	07.12.20	Coding J added
i00	06.06.24	Center of gravity integrated

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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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Bippus	11.06.07	T.Georg	06.06.24	i00	24-0609	A. Fruehmann	06.06.24

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