

Redundant module HARTING pCon 20DRM-10A



Redundant module
HARTING pCon 20DRM-10A

Advantages

- Compact design and high power density
- Easy installation and tool-less connection
- Wide operating temperature range (up to 70 °C without derating)
- Very low power loss and minimized voltage drop (max. 0.3V)
- International approvals

General

The redundant module of the HARTING pCon 2000 product family are designed as power supply solutions for control units, Ethernet and other automation components.

The redundant modules are usable to build up easily a redundant and fail-safe power supply for critical devices and applications.

The quick connection technology and the 2 terminals per connection point guarantees easy and quick installation.

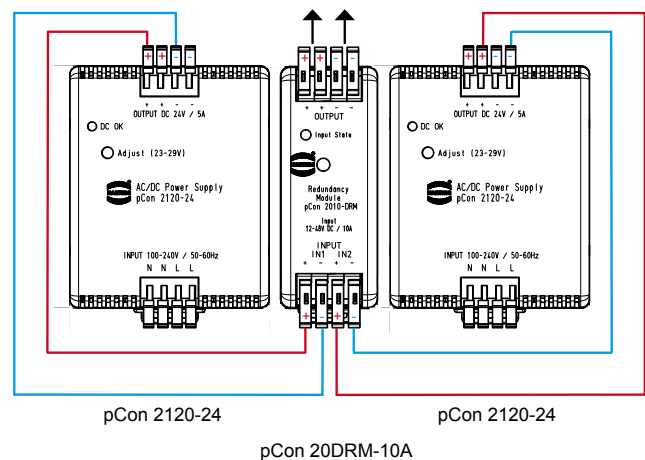
Identification

Part number

HARTING pCon 20DRM-10A

Redundant module

20 80 000 3130



Identification	Part number	Drawing	Dimensions in mm
<p>HARTING pCon 20DRM-10A</p> <p>Redundant module For mounting onto top-hat mounting rail according to DIN EN 60 715</p>	20 80 000 3130		

Technical characteristics

Input

Nominal input voltage 12 - 48 V DC

Input voltage range 8 - 60 V DC

Input current I_{in} < 10.0 A

Fuse No

Output

Voltage drop 300 mV (max.)

Output current 16 A (max.)

current limitation No. The upstream power supply has to fall fill this function

Overload protection No. The upstream power supply has to fall fill this function

Overheating protection No

Power loss 6 W (max.)

Signalling

LED Green

Green flashing: Only one input connected
Output voltage present

Green on permanent: Both inputs connected
Output voltage present

Technical characteristics

General Data

MTBF	> 250.000 hours (according to IEC 1709, SN 29 500)
Insulation co-ordination	
Isolation voltage Input / Output	Type-/ routine test 3 kV AC
Connectable in parallel	yes, with redundancy module (decoupling diodes)

Connection

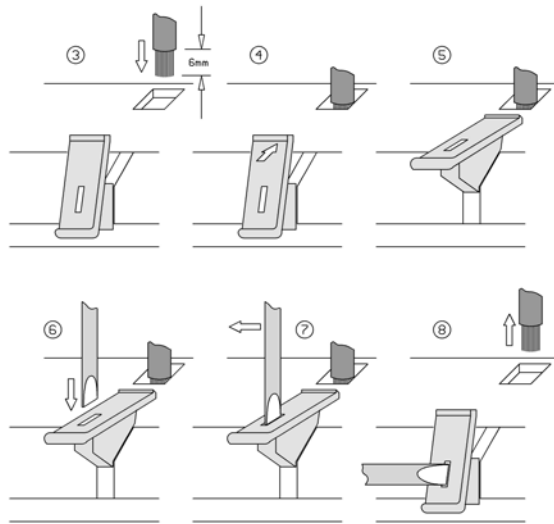
Primary: 2 x L1 / 2 x N (below)
 Secondary: 2 x U1 / 2 x GND (above)

Conductor cross-sections

Stranded conductor: 0,3 ... 2,5 mm² (AWG 28 ... 12)
 Solid conductor: 0,3...4 mm² (AWG 28 ... 12)

The connection can be made with or without screw driver (3 mm width), as shown in the following pictures

- ③ - ⑤ : make contacts
- ⑥ - ⑧ : break contacts



Installation / Removal

The power supply can be snapped onto a 35 mm mounting rail acc. to EN 60 715.

The unit should be mounted at a slight angle from above onto the rail. Push down until the slide at the back of the unit snaps in (see diagram).



The device must be mounted in such a way that the ventilation slots are not covered and air convection is unimpeded.

Leave a space of at least 3 cm above and below the unit.

The air temperature at the bottom of the unit must be not higher than the max. operating temperature ($T_u = 70 \text{ }^\circ\text{C}$)!

Disconnect all cables before starting removal.

To remove, first unlock the slide with a screwdriver and then take the unit away from the rail.



Technical characteristics

Design features

Housing	plastic enclosure anthracite-grey RAL 7016
Dimensions (W x H x D)	45 x 75 x 105 mm
Mounting	35 mm DIN rail according to DIN EN 60 715
Weight	approx. 170 g
Degree of protection acc. to DIN 60 529	IP 20
Class of protection	II (no earth connection necessary)

Environmental conditions

Operating temperature	-25° C to 70°C (without forced ventilation)
Storage temperature	-30 °C to +85 °C
Relative humidity	30 % to 95 % (non-condensing)

Mechanical stability

Shock	IEC 60 068-2-27
Vibration	IEC 60 068-2-6

Product standards

- EN 50 178 (VDE 0160)
- EN 60 950 (SELV)
- EN 60 204 (PELV)

Approvals

Conforms to EMC guideline 89/336/EEC
and low voltage directive 2006/95/EG

Electrical safety of information
technology equipment

IEC/EN 60 950, UL 60 950, CSA 22.2-60 950
CCSA-NRTL/C

