

# RS485 HUBs


## H01 - H03 RS485 HUBs documentation

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# Data Sheet

## RS485 HUBs (H01 - H03)

H01 H02 H03



**Features**

- Isolated RS485 1:3 HUB
- ESD protection for the RS485 data line
- Power supply: +12 to +30 VDC or 24 VAC
- 3000 VDC isolation protection
- Transmission speed up to 115200 bps
- Tx, Rx and power LED indicators
- RS485 embedded termination 120 ohm
- Operating temperatures: -40°C to +75°C
- DIN-rail mounting
- Compact size - single module format (1M)
- Dimensions: 90x56.4x17.5 mm
- 3 years warranty
- Customization of OEM is welcomed

## Introduction

The products from the H01-H03 family are reliable RS485 signal hubs made to work with variable transmission speeds. They allow flexible branching of the 1:3 interface while simultaneously protecting the attached devices thanks to internal 3 kV/DC galvanic isolation. Additionally, dedicated EMC protections will improve transmission quality and limit the impact of interference typical for an industrial environment.

## Specifications

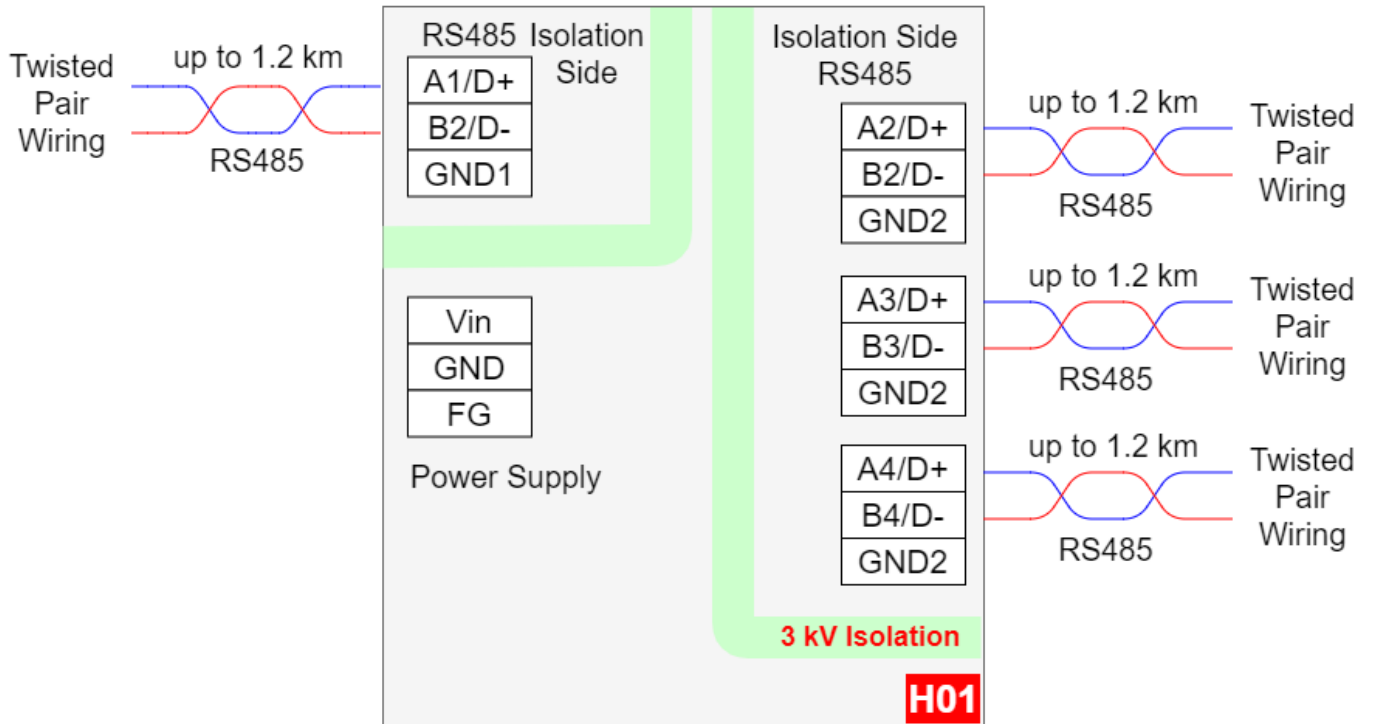
Redisage PN	H01	H02	H03
Input	1 x RS485 channel; Data+, Data-		
Output	3 x RS485 channels; Data+, Data-		

Redisage PN		H01	H02	H03
Power	Voltage	12-30 VDC / 24 VAC	12-30 VDC	
	Power	< 1 W		
Frame ground protection		yes		
3000 VDC isolation		3-way	branched side	main side
Baud rate		up to 115200 bps		
LED indicators		communication Tx, Rx and power		
RS485 termination		120 ohm manually enabled		
Connector	RS485	8-pin terminal block max. 2.5 mm <sup>2</sup> wire		
	Power	3-pin terminal block max. 2.5 mm <sup>2</sup> wire		
Transmission distance	RS485	max. 1,200 m at 9.6 kbps; max. 400 m at 115.2 kbps (Belden 9841 2P twisted-pair cable, if different cables are used, the transmission distance may change)		
Mounting and enclosure		DIN rail, plastic PA - UL 94 V0, black/green		
Temperatures		-40°C to +75°C operating and storage		
Humidity		10 - 90% RH, non-condensing		
ESD protection		±4 kV contact discharge / ±8 kV air discharge		
Certification		CE, RoHS		

# Variants

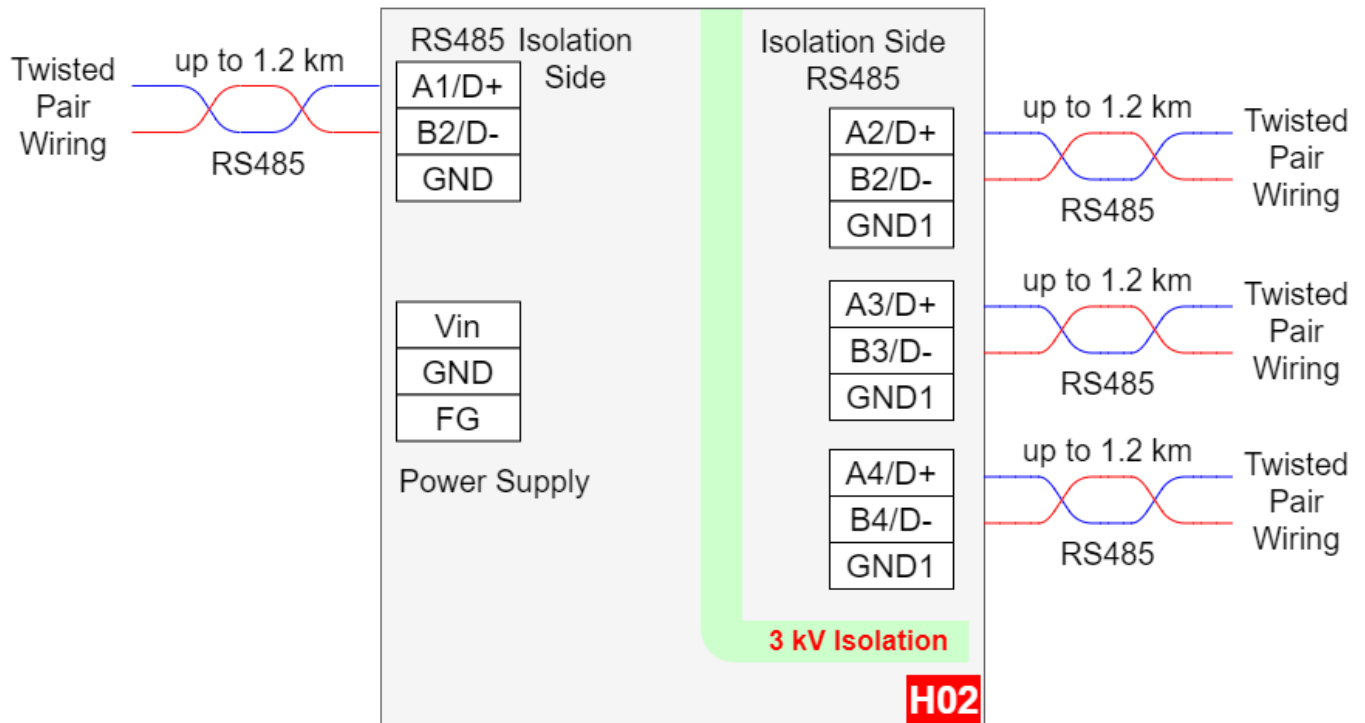
## H01 - THREE-WAY Isolated RS485 HUB

### H01 THREE-WAY Isolated RS485 HUB

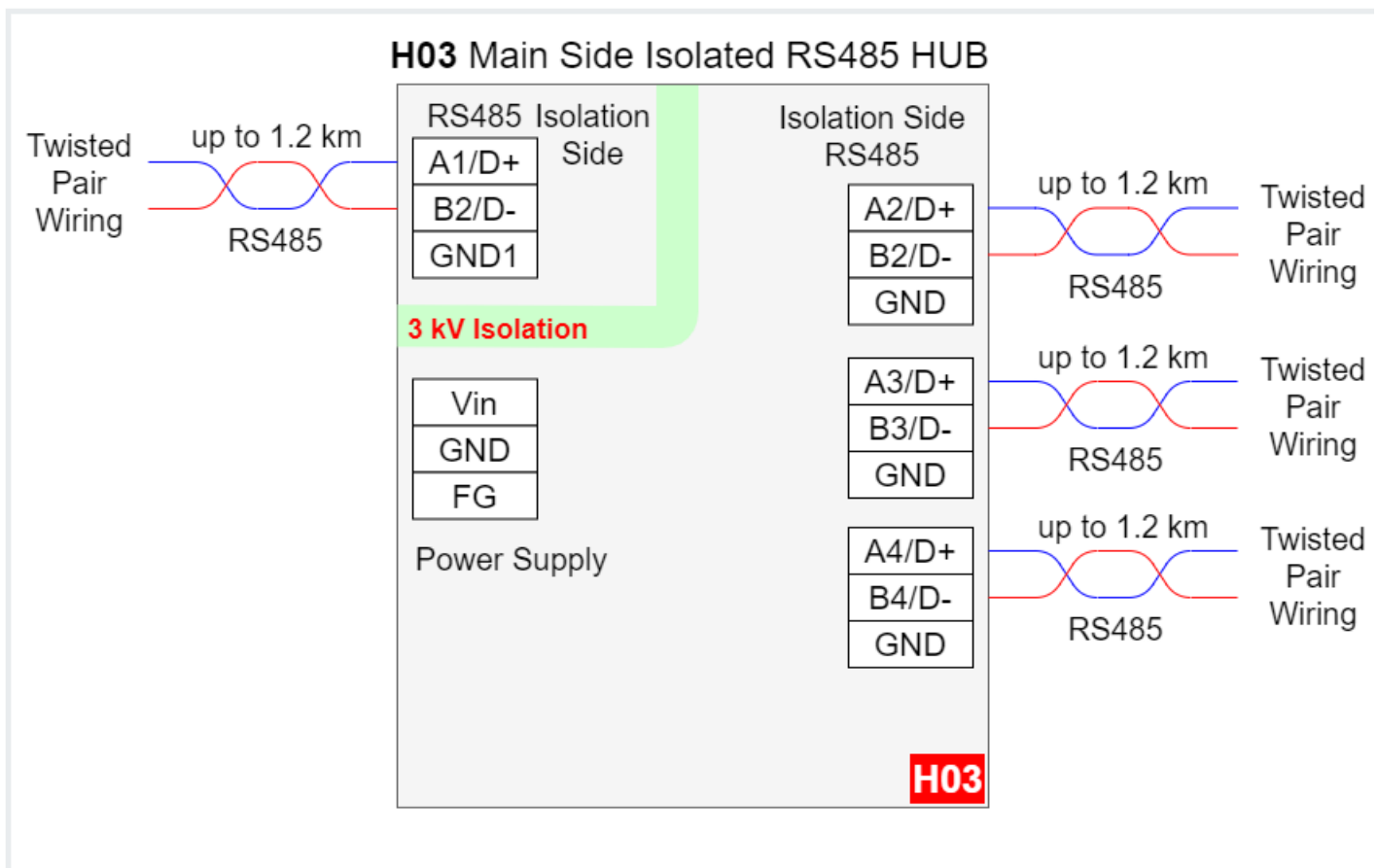


### H02 - Branched Side Isolated RS485 HUB

#### H02 Branched Side Isolated RS485 HUB



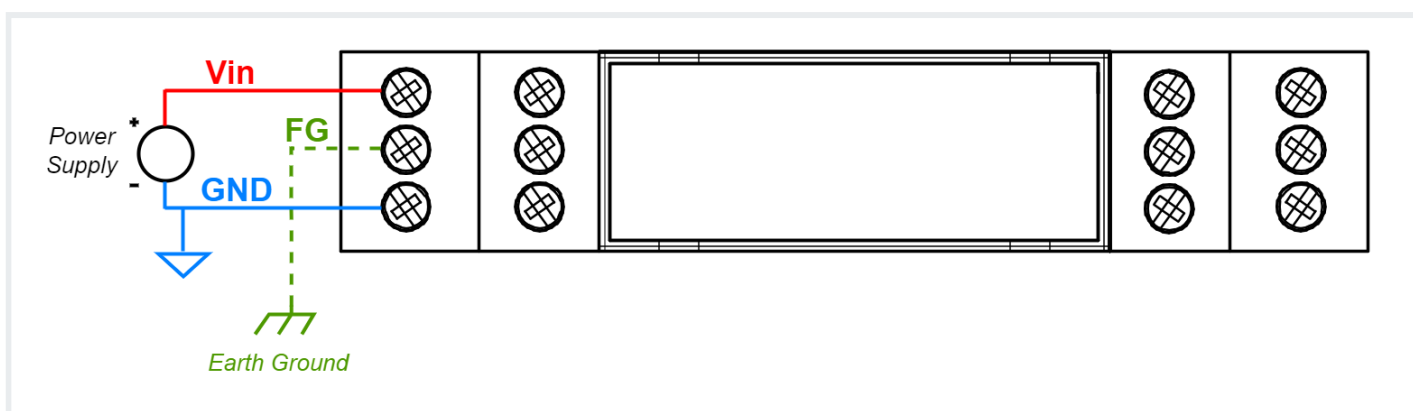
### H03 - Main Side Isolated RS485 HUB



## Frame ground FG

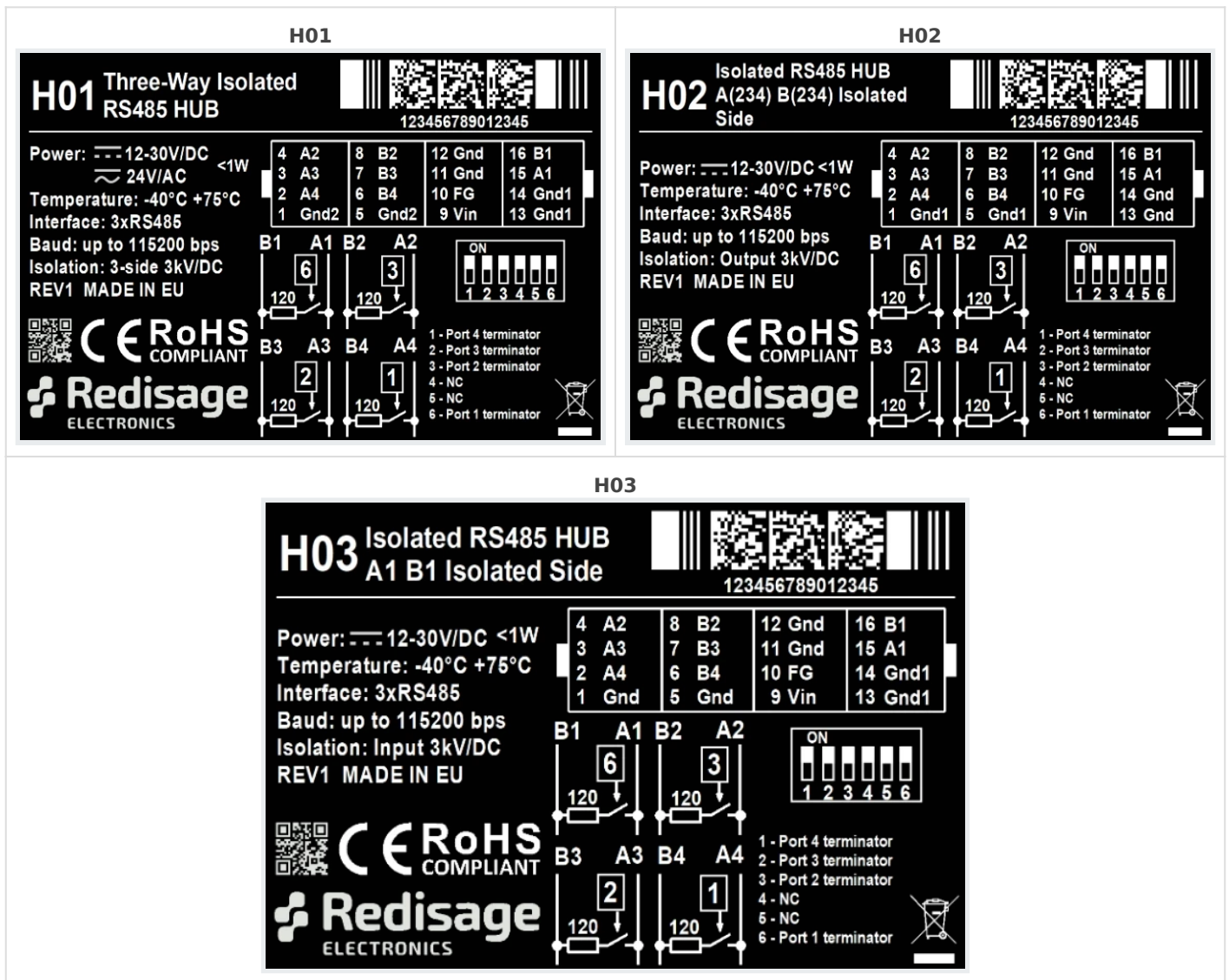
Electronic circuits are constantly prone to electrostatic discharge ESD. Redisage Electronics modules feature a design for the frame ground terminal block FG. The frame ground provides a path for bypassing ESD, which provides enhanced static protection ESD abilities and ensures the module is more reliable. Connecting FG terminal block to the earth ground will bypass the ESD disturbances outside the device so will provide a better level of protection against ESD.

Frame Ground FG connection reference drawing is provided below.



If earth ground is not available FG can be left floating or it can be connected with the power supply GND.

# Pin assignments

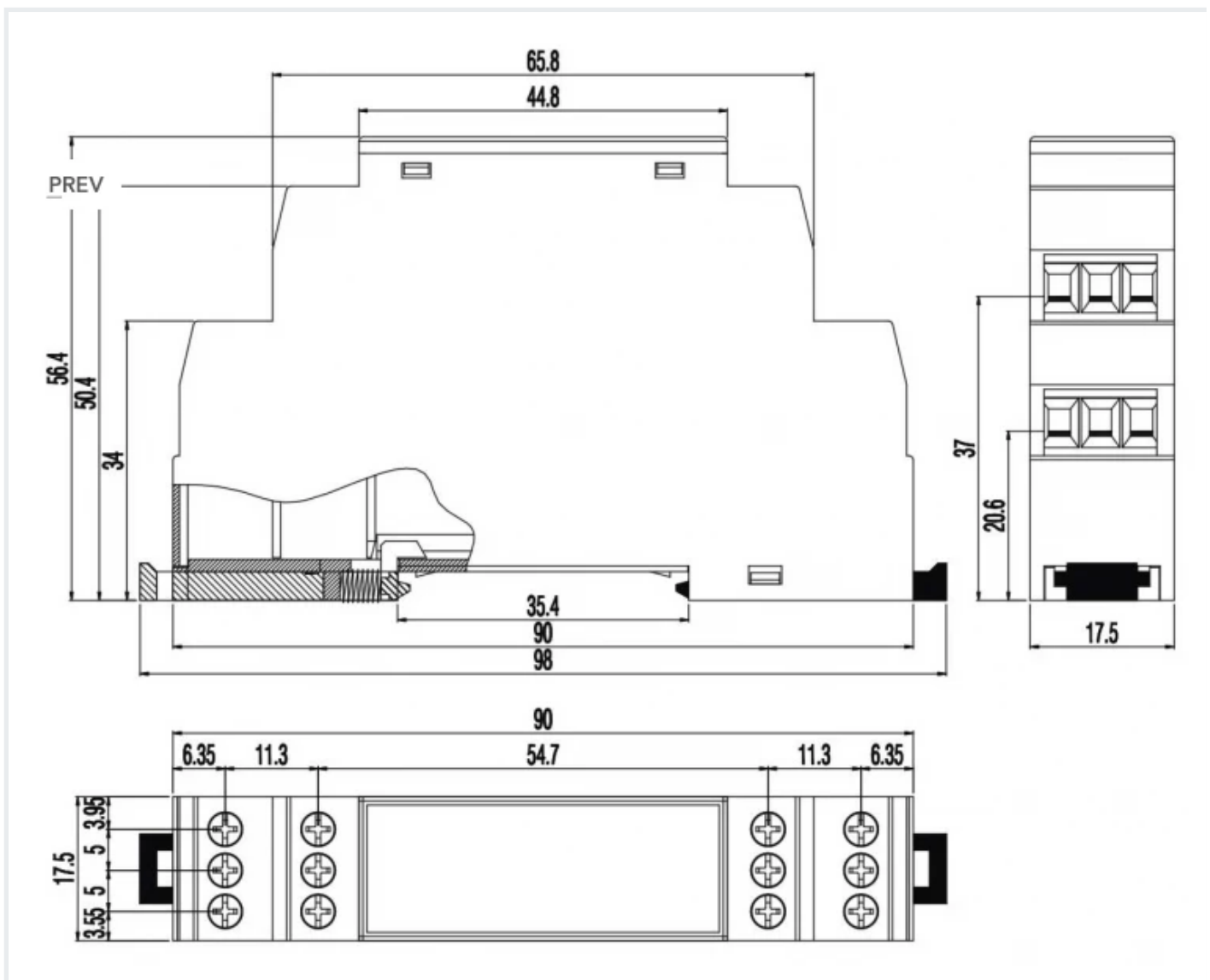


# Enclosure dimensions

1U Module Enclosure

98 x 17.5 x 56.4

Units: mm



## Additional notes

Related information and links		
<a href="#">Ordering information</a>	<a href="#">Accessories</a>	<a href="#">Similar products</a>

## Products family sample photo



<https://redisage.com>

**DISCLAMER NOTES**

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Datasheet-ID:

SR-D



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