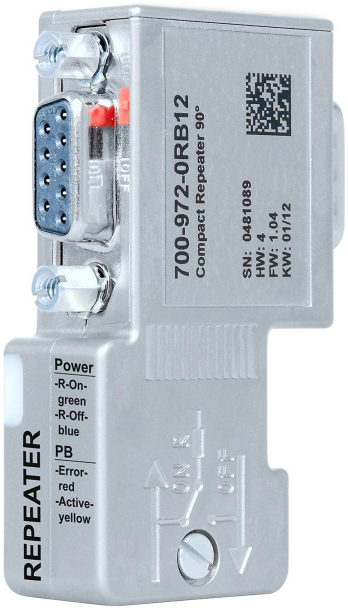
700-972-0RB12



PROFIBUS Compact Repeater

- Alternative to conventional PROFIBUS repeaters
- No additional space required in the control cabinet
- Can be used for bus extension or as a spur line
- Increase the number of participants
- System expansion
- Can also be used in MPI networks
- Status LEDs
- No 24 V supply required
- 5 V power supply directly from the PROFIBUS terminal, making it usable on every PROFIBUS device
- Electrical isolation

Info

The patented PROFIBUS compact repeater is a full PROFIBUS repeater that is versatile due to its very small size. It enables transfer rates of 9.6 kbps to 12 Mbps. The transmission signals are regenerated by the repeater and re-sent (bit-reshaping and retransmission) so that faults in the line are largely eliminated.The PROFIBUS compact repeater is a great alternative to conventional repeaters for a large number of applications, both technically and in terms of price. It can be used for bus extension (up to 1 km with 2 PROFIBUS compact repeaters), to increase the number of participants, and to expand the system. Use in MPI networks is also possible. As a special application option, the PROFIBUS compact repeater allows the setup of stubs as separate segments. For this it can be plugged directly into the PG connection of an existing PROFIBUS connector.Due to the compact design, no additional space is needed in the control cabinet, as the PROFIBUS compact repeater can be used instead of a PROFIBUS connector and is simply plugged into a participant on the PROFIBUS network. Furthermore, no separate power supply is required, because the PROFIBUS compact repeater uses the 5 V power supply, which every PROFIBUS device makes available for the terminating resistor. The PROFIBUS compact repeater establishes a potential separation between the two PROFIBUS segments.The integrated status LEDs provide a quick overview on the current bus status.

Technical data

General information	
Order number	700-972-0RB12
Article name	PROFIBUS compact repeater
Scope of delivery	PROFIBUS compact repeater, instructions
Dimensions (DxWxH)	40 x 17 x 64 mm
Weight	Approx. 40 g
Cable outlet	90 °
PG connection socket	Yes
PROFIBUS bus cable	60 °C/70 °C copper cable up to 1.0 mm²
Maximum outside diameter	8.0 mm
Status indicator	1 LED, 4-color
Voltage supply	+ 5 V DC
Current draw	typ. 100 mA with DC 5 V

PROFIBUS interface	
Number	1
Protocol	PROFIBUS-DP
Transmission rate	Max. 9.6 ... 12 Mbps, autom. detection
Connection	SUB-D connector, 9-pin

Connector	
Connector type	terminal strips
Number	4

Ambient conditions	
Ambient temperature	0°C ... +60°C
Transport and storage temperature	-25°C ... +75°C
Relative air humidity	95 % r H without condensation
Pollution degree	2
Protection rating	IP20
Approvals	CE, UL