Compact
PROFIBUS
repeater
B1

PROFIBUS DP repeater B1

The compact PROFIBUS DP repeater B1 offers an economic alternative to the competition and overcomes the technological limitations of the existing repeaters.

This first class network component fulfils the high electrical, mechanical and diagnostic requirements of the modern industry.

The expanded 12 Mbps core of the B1 is identical to the ProfiHub B5. It can be cascaded without limit and is equipped with an isolated RS485 interface. The data is constantly monitored for glitches which are digitally filtered out. Each channel has switchable terminating resistors on board and is able to support up to 31 devices.

The removalbe screw terminals of the PROFIBUS interface are arranged in a way that reversal mounting does not impact existing wiring. A DB9 connection is provided for maintenance and engineering tools.

The power supply is redundant which makes the B1 especially suitable for applications in which high availalbility is required.

PROFIBUS®

B1

VIPA®
art of automation

Product features

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Electrical
- 1 isolated channel (2 segments)
- Increased signal strength
- Up to 31 devices per segment connectable
- Up to 1200 m cable length
  (depending on transmission rate)
- No limitation at the cascading interconnection
- Redundant power supply (19..28 VDC)

Protocol
- Transparent for all PROFIBUS and MPI protocols
- 9,6 Kbps - 12 Mbps (automatic Baud rate detection)
- No PROFIBUS address required

Mechanical
- Installed terminating resistors (individually switchable)
- Diagnosis LEDs for status indication on the bus
- Removable screw contacts and 1 DB9 contact
- Mounting on DIN rail
- IP20 classification (according to DIN 40 050)
- Housing suitable for harsh industrial environments

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Advantage overview

- Highest protection by short circuit safety in each segment
- Highest availabilities
- Compact and robust design
- Suitable for all kinds of DP cables
- Low current consumptions
- Clearly arranged networks
- High flexibility by easy expandalbe installations