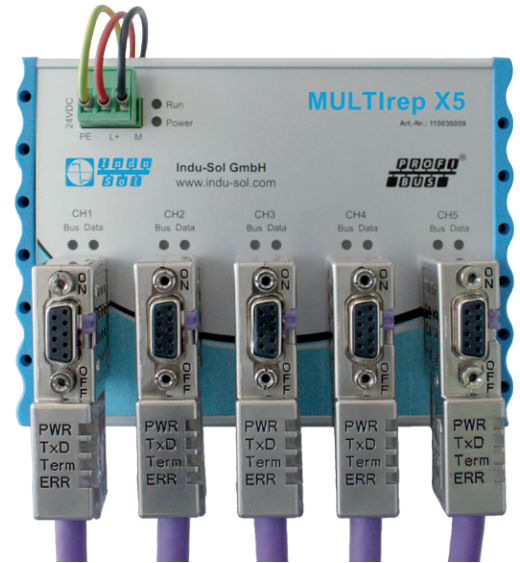
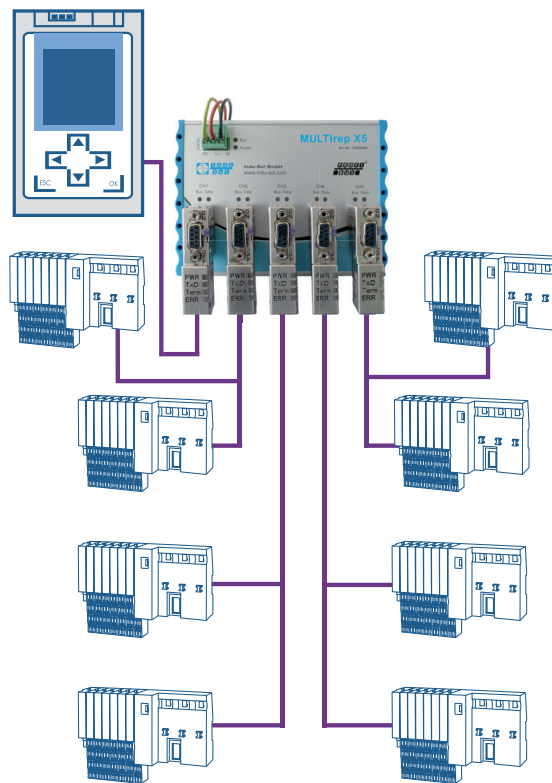




Star structure in PROFIBUS - More flexibility with repeater

The **repeater product series** allows you to make use of the key advantage of Ethernet-based networks in PROFIBUS - the star structure. Each outgoing line from the repeater creates a galvanically independent segment with a refreshed signal. This enables you to create groups by location or function as also technological groups, thereby freeing you from the limitations of the line structure. The smaller segments give you a better overview of the network, thereby making diagnosis simpler.

Whenever an error occurs only one segment is affected and therefore just one part of the network. Further advantages are that segments can be separated without interruption and that the plant can be expanded by plugging into the repeater during running production.



Star structure allows:

- Stub lines in PROFIBUS
- Easy isolation of sensitive or problematic sections
- Extensions or shut downs during running production
- Errors affect only small parts of the network

LED diagnosis

The MULTirep monitors the PROFIBUS telegram traffic permanently and notifies you of logical and physical abnormalities via LED. The bus LED signalizes error telegrams and telegram repetitions.

The data LED displays whether a slave on the channel is communicating and if it is correctly configured.

Bus: Bus health status per channel

- **Green:** System is ok
- **Red:** Error telegrams, telegram repetitions, diagnostic messages, device failures

- Data:**
- **Green:** PB data traffic on the channel
 - **Red:** Configuration problem in PB
 - **Off:** No PB data traffic



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Infrastructure components

PROFIBUS DP Repeater



Indu-Sol GmbH – Specialist in Fieldbus Technology



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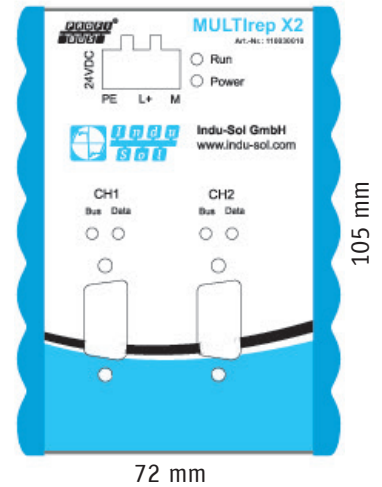
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MULTIrep X2 Art. No.: 110030010

This repeater allows you to expand your PROFIBUS network up to 126 devices (incl. repeater) as well as to implement greater line lengths in such a way as to take account of the fieldbus transmission speed. A maximum of 32 devices (31 + repeater) per segment is acceptable.

The **MULTIrep X2** regenerates voltage signals in both directions and raises the signal strengths up to the PROFIBUS standard level whilst keeping the signal content unchanged. From the physical point of view the MULTIrep X2 provides two galvanically isolated segments.

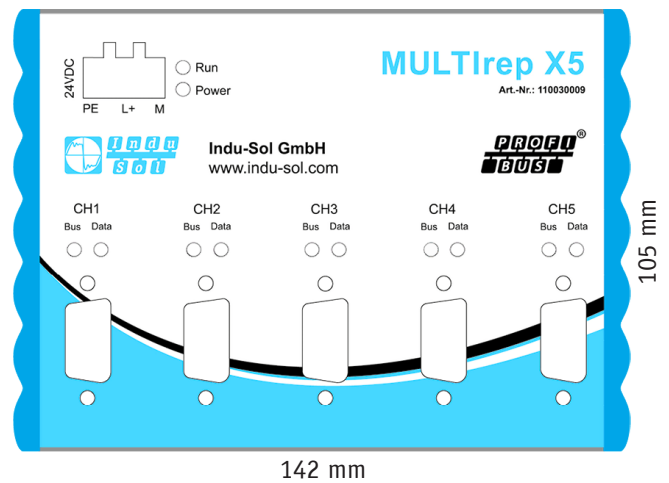


MULTIrep X5 Art. No.: 110030009

The **MULTIrep series** with the compact multiple repeaters **X5** and **X7** provides an ideal basis for a resilient PROFIBUS cabling in star structure. The simplicity of the MULTIrep is significant since it only provides what you really need.

The PROFIBUS cabling makes use of well-proven and solid sub-D plugs, so there are no error-prone DIP switches or terminal points.

A highlight of the MULTIrep series is the integrated diagnosis feature. The telegram traffic is monitored continuously and the health status of each segment is displayed via LED.



MULTIrep X7 Art. No.: 110030011

