



## Fieldbus Power Repeater

### KLD2-PR-Ex1.IEC1

- Power supply of fieldbus segments according to IEC 61158-2
- Signal repeater for fieldbus topologies in accordance to FISCO
- 100 mA supply of the field side
- Improves the fieldbus signal
- Extension of the transmission distance by means of opening a new fieldbus segment
- Integrated bus terminations
- Removable terminals and Power Rail connection for simple installation
- Supply via Power Rail



### Function

The KLD2-PR-Ex1.IEC1 improves digital communication signals within a fieldbus system.

This fieldbus repeater separates an intrinsically safe field bus segment based on the FISCO model \* and a non-intrinsically safe field bus segment from each other galvanically; IEC 61158-2/ISA-S50.02 (i. e. FOUNDATION Fieldbus, PROFIBUS-PA). It delivers a constant voltage for supplying connected intrinsically field devices that are intrinsically safe and comply with the FISCO model regardless of the load.

The repeater refreshes the signal course and the level of incoming digital communication signals. Up to 31 repeaters can be operated on the host. At the maximum output current, the repeater is able to extend the bus segment by at least 860 m with the use of an FF cable of type A, AWG 18 (0.8 mm<sup>2</sup>). The repeater has a permanently integrated bus terminator on the field side. The bus terminator can be switched into the circuit on the host side.

The power rail connections eliminate the need to loop through power supply and fieldbus lines.

\* **FISCO**: Fieldbus Intrinsically Safe Concept