



LWL PP-coupler

Features

- Bridging of great distances
- Noise-immune signal transmission
- Galvanic isolation

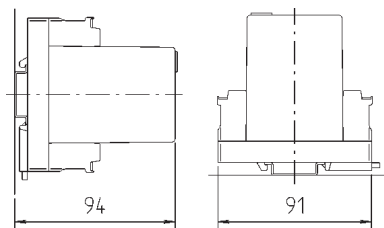
Description

The RS485/PROFIBUS LWL PP-coupler reroutes the PROFIBUS from copper conductors to optical waveguides. The LWL PP-coupler is a passive bus participant.

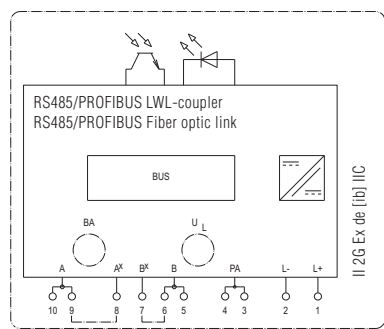
In plants, the LWL PP-coupler allows the bridging of great distance with PROFIBUS without noise interference.

The electronics for the signal conversion are accommodated in the flameproof MODEX enclosure. Transmitter and receiver for the LWL-coupler are intrinsically safe headed during the execution. The intrinsically safe control transmitter and receiver of the electronic system guarantee that the transmitter rate does not go beyond maximum value limits.

Dimensions



Wiring diagram/terminal assignment



Explosion protection

Ex protection type

Ex II 2(2)G Ex de [ib] IIC

Optical waveguide

Transmitter

Ex II 2G Ex ib op is IIC T4

Receiver

Ex II 2G Ex ib IIC T4

Certification

PTB 97 ATEX 1068 U
TÜV 99 ATEX 1404 X
Type 17-1923-1111/...

Further safety data see EC type examination certificate.

**Technical data****Construction**

Clip-on enclosure to TH 35

Enclosure material

High-quality thermoplastic

Protection class

minimum IP 20

Terminals2.5 mm², fine stranded**Labelling**

front panel label for markings

Display

LEDs on front panel

Storage temperature

-40 °C to +70 °C

Ambient temperature

-25 °C to +60 °C

Weight

600 g

Electrical data**Supply voltage**

DC 20 V to DC 30 V

Power consumption dissipation $P_v = 0.85 \text{ W}$ **Galvanic isolation**

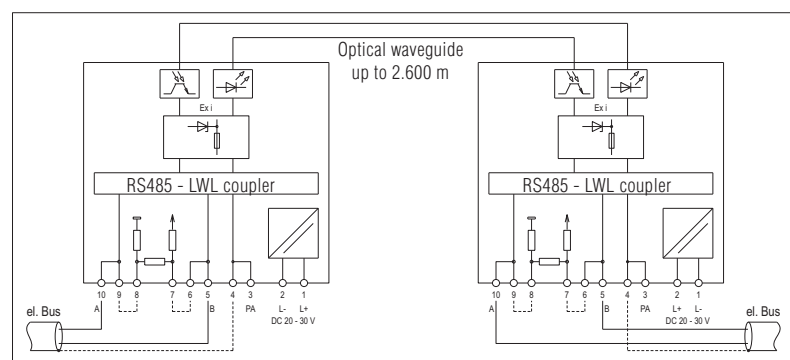
Bus//power supply//optical waveguide

Bus input/output

2-wire remote bus with screw terminals

LWL input/outputF-SMA LWL plug-in connectors or
ST LWL plug-in connectors**Wavelength**

850 nm/glass

Displaysoperation LED green
active bus LED yellow**Distance**1400 m; 50.0 µm fibre/glass
2600 m; 62.5 µm fibre/glass**Guidelines/norms/certifications**Directive 2004/108/EC
Directive 94/9/EC
EN 60079-0: 2006
EN 60079-1: 2004
EN 60079-7: 2007
EN 60079-11 2007
EN 60079-28: 2007
EN 61000-6-1: 2002
EN 61000-6-3: 2005**Example of LWL PP-coupler****Order no. LWL PP-coupler**07-7311-97WP/6000
07-7311-97WP/6010LWL PP-coupler
LWL PP-couplerFSMA
ST

Technical data subject to change without notice.