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Digital optical transmission system DOtech Type LIN26 for LINBUS diagnosis:

Technical specification



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Principle of transmission

The transmission system consists of two identical transceiver circuits. The supply is done by an external battery U_{bat} . The system serves for the bi-directional optical transmission of digital LINBUS signals in harsh electromagnetic environments and for bus simulations during emission tests.

Technical data

System

O

o Two identical transceivers, interchangeable

o Fault LED

o Transmitter and receiver are usable on different voltage levels

o manual switching of the pull-up-resistors for operation in master- and slave-mode and display

via LEDs

o Transmission capability: DC - 20 kBaudo U_{bat} : $5 \text{ V} < U_{bat} < 35 \text{ V}$ o Guaranteed susceptibility: $\hat{E} = 400 \text{ V/m}$

o Pull-up-resistor

master mode: 1 kOhm

o Pull-up-resistor

slave mode: 20 kOhm Input capacitance of the LINBUS: $C_{in} < 200 \text{ pF}$

o Housing: aluminium, connected to ground

o Housing dimensions: 100 x 80 x 50 mm

o Electrical connectors: LINBUS female connector, green

U_{bat} female connector, red Ground female connector, black

o Optical connectors: RX receiver input

TX transmitter output

Fibre optics

System:

Style: Duplex multimode 62,5/125 µm

Connectors (RX and TX): FSMA

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