

PCAN-LWL

Optical Coupler for CAN and CAN FD Data Transmission

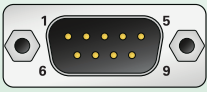
For use in explosion-proof areas or for EMC measurements, the PCAN-LWL can be used to replace a stretch of CAN network with a fiber-optic line at any point. There are the options of conversion to High-speed CAN or Low-speed CAN. The modules are supplied with power externally.

The PCAN-LWL can be used in CAN FD buses with data bit rates up to 5 Mbit/s and nominal bit rates up to 500 kbit/s.



Specifications

- LED display for transceiver status
- High-speed CAN: AMIS 30660 transceiver, max. 500 kbit/s, switchable 120-Ohm bus termination
- Low-speed CAN: TJA1055 transceiver, max. 125 kbit/s, switchable 510 Ohm / 5.6 kOhm bus termination, bus error display
- Complies with CAN specifications 2.0 A/B
- Suitable for the use in CAN FD buses with data bit rates up to 5 Mbit/s and nominal bit rates up to 500 kbit/s
- The fiber-optic line consists of a 62.5/125 µm fiber-optic duplex line with ST connectors
- Aluminum casing
- CAN bus connection via D-Sub, 9-pin (in accordance with CiA® 106)
- Supply voltage 6.5 to 30 V
- Supply via D-Sub 9-pin or DC connector (jumper)
- Operating temperature range from 0 to 70 °C (32 to 158 °F)

D-Sub	Pin	Pin assignment
	1	Not connected
	2	CAN-L
	3	GND
	4	Not connected
	5	Not connected
	6	GND
	7	CAN-H
	8	Not connected
	9	V _{IN} (optional)

Ordering information

Designation	Part No.
PCAN-LWL	IPEH-002026

Scope of supply

- 2 CAN to optical waveguide converters including power supply units. Delivered in shockproof plastic box
- A choice of 5 or 10 m FO cable, 62.5 / 125 µm duplex line ST connector. Other lengths available on request
- Manual in PDF format

Also available with Single-wire CAN transceiver on request.