

PCAN-LWL (IPEH-002026) – Detailed Data Sheet



Product Description

The PCAN-LWL from PEAK-System is an optical coupler designed for CAN and CAN FD data transmission. It allows segments of a CAN network to be replaced with fiber-optic lines, ideal for use in explosion-proof areas or for EMC measurements. Available for High-speed and Low-speed CAN. External power supply is required.

Technical Specifications

Feature	Details
LED Display	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
CAN Compliance	Complies with CAN specifications 2.0 A/B
CAN FD Support	Data bit rates up to 5 Mbit/s, nominal bit rates up to 500 kbit/s

Fiber-optic Line	62.5/125 μm duplex line with ST connectors
Casing	Aluminum casing
CAN Bus Connector	D-Sub 9-pin (CiA® 106 standard)
Supply Voltage	6.5 to 30 V
Power Supply	Via D-Sub 9-pin or DC connector (jumper selectable)
Operating Temperature	0 to 70 °C (32 to 158 °F)

D-Sub 9-Pin Connector Pin Assignment

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	VIN (optional)

Scope of Supply

- 2 CAN to optical waveguide converters including power supply units
- Shockproof plastic box
- Choice of 5 or 10 m fiber-optic cable (62.5 / 125 μm duplex line with ST connectors). Other lengths available on request
- Manual in PDF format
- Also available with Single-wire CAN transceiver on request