

Leuze electronic

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the sensor people

Optical Data Transmission DDLS 200

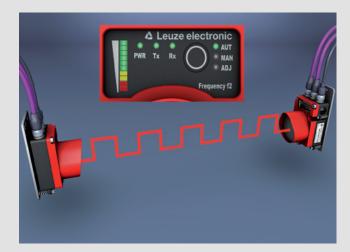
Robust, compact and international communication capabilities

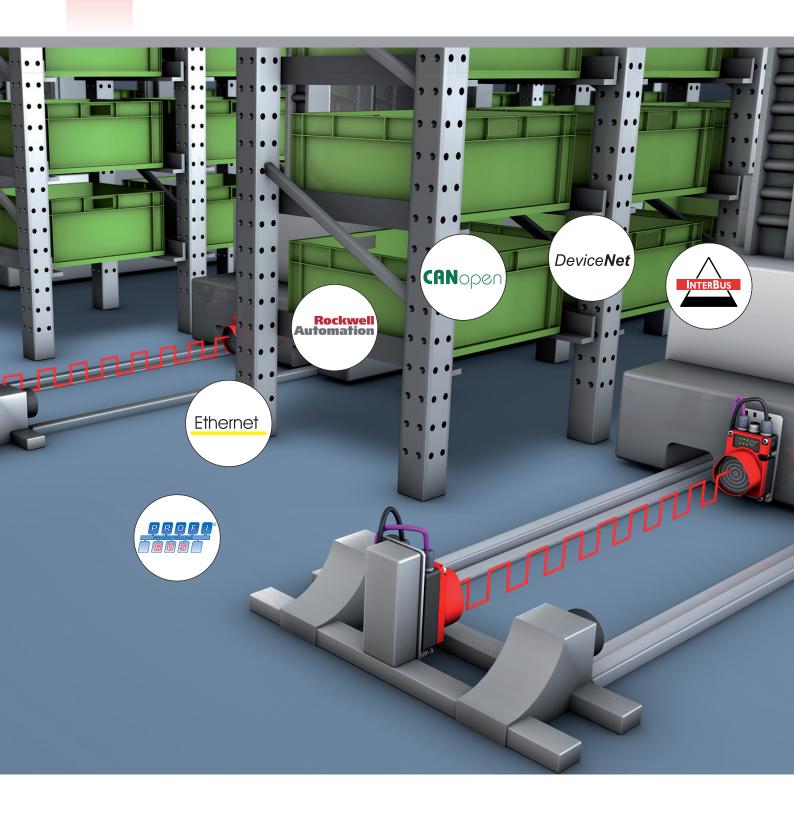
DDLS 200 – the alternative to WLAN from Leuze electronic.

Free from contact and wear, immune to interference.

The DDLS 200 optical data transceiver from Leuze electronic transmits data from industrial networks via infrared light without contact or wear. Transmission is fast, deterministic and immune to interference. The method of function is absolutely transparent: This means that the optical data transceiver does not represent a participant on a given network, but rather handles data communication without intervening in the communication process. Thus, it functions as reliably and as simply as a copper cable.

- The optical data transceivers are used primarily in plant engineering, especially in applications where industrial networks such as PROFIBUS, DeviceNet or Ethernet etc. are transmitted to system components which are moved. Examples include high-bay storage devices, gantry crane bridges or side-tracking skates.
- The DDLS 200 supports all of the major international interfaces.
- Infrared data transmission protects the DDLS 200 from interference.
- The fast transmission rates and enormous operating ranges of up to 500 m make the DDLS 200 an essential centrepiece in modern plant engineering.





Decisive advantages

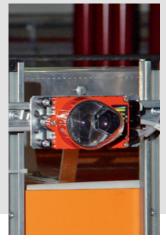
of the DDLS 200 optical data transceiver.



- Integrated mechanics for fastening and aligning the data path. The result: very simple mounting.
- Robust metal housing with protection class
 IP 65 offers optimum protection against electromagnetic interference injection.
- M12 connections with ready-made cables make the connection of additional M12 participants incredibly simple and error free.
- The integrated control panel with diagnostic functions provides extensive information on the status of the data communication. Signal strengths, transmitted and received data, the alignment or light beam interruptions are reliably displayed.





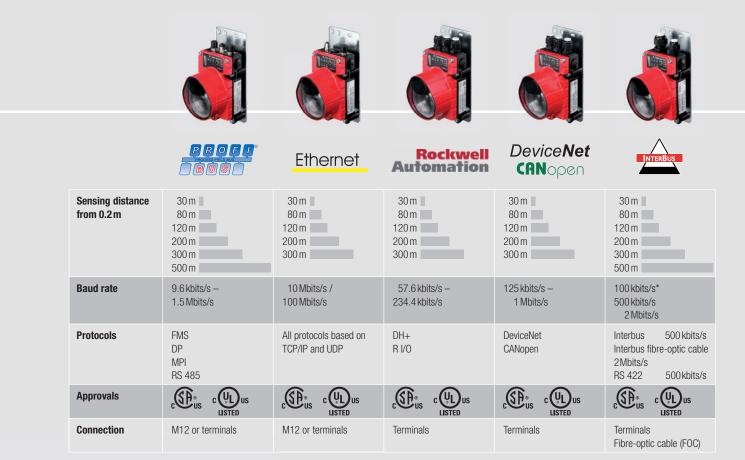


- The integrated and patented alignment method facilitates the alignment of both devices by one person and can be activated with a simple push of a button.
- One for all. The DDLS 200 series supports all major international interfaces such as PROFIBUS, Ethernet, DeviceNet, CANopen etc. Individual approvals, such as UL for the American market, have been obtained.
- During use in extreme environmental conditions, e.g. outdoors or in deep-freeze warehouses, integrated heating ensures reliable and fault-free operation at temperatures as low as -30 °C.





Interface variants of the DDLS 200 series.



* for 500 m models

Technical data

Electrical data	
Supply voltage	1830 V DC
Current consumption without optics heating	approx. 200 mA with 24 V DC
Current consumption with optics heating	approx. 800 mA with 24 V DC
Optical data	
Opening angle	$\pm0.5^\circ$ with respect to the optical axis for $120m\ldots500m$ models
	$\pm1.0^\circ$ with respect to the optical axis for 80 m models
	$\pm1.5^\circ$ with respect to the optical axis for 30 m models
Input/output	
Input	0 2 V DC: transmitter/receiver deactivated
	18 30 V DC: transmitter/receiver activated
Output	0 2 V DC: normal operation
	Vin – 2 V DC: limited performance reserve Output current max. 100 mA, short-circuit proof
Operating and display elements	output current max. Too ma, short-circuit proof
Membrane buttons	change of operating mode
Individual LEDs	indicate voltage supply, operating mode, data traffic (depends on the model)
LED strip	bar graph display of the receiving level
Mechanical data	bui gruph diopital of the rocenting lover
Protection class	IP 65 acc. to EN 60529
Weight	approx. 1200 g
Housing	aluminium diecast; light inlet/outlet, glass
Environmental data	
Operating temperature	-5 °C +50 °C without integrated heating
	-30 °C +50 °C with integrated heating (non-condensing)
Air humidity	max. 90 % rel. humidity, non-condensing
EMC	EN 61000-6-2:2005 and EN 61000-6-4:2001
UL listed	acc. to UL 60950 and CSA C22.2 No. 60950

Additional technical data is available for download at www.leuze.com

Optical Electronic Sensors

Cubic Series Cylindrical Sensors, Mini Photoelectric Sensors, Fibre Optic Amplifiers Measuring Sensors Special Sensors Light Curtains Forked Sensors Double Sheet Testing Unit, Splice Detection Accessories

Identification Systems Data Transmission Systems Distance Measurement

Barcode Readers RF IDent Systems Modular Connector Units Industrial Image Processing Systems Optical Data Transmission Systems Optical Distance Measurement/Positioning Hand-Held Readers

Safety Sensors Safety Systems Safety Services

Safety Laser Scanners Safety Light Curtains Transceivers and Multi Light Beam Safety Devices Single Light Beam Safety Devices AS-i-Safety Product Range Safety Sensor Technology for PROFIBUS DP Safety Switches and Safety Locking Devices Safety Relays and Safety Interfaces Sensor Accessories and Signal Devices Safety Engineering Software Machine Safety Services

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