

Model Number LS682-DA-EN/F2

Optical data coupler

• Fast Ethernet; Powerlink; EtherCAT;

Independent of Ethernet protocol

Plug connection for fast mounting

Line indicator for signal strength

tion of Ethernet modules to remote modules. These can move along an axis toward each

No parameterization

Product information

ons in high bay warehouses bays.

immediate transfer.

Features

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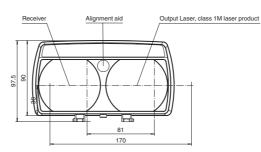
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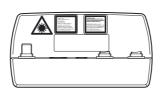
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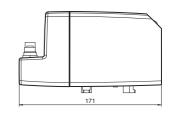
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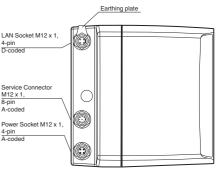
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Dimensions

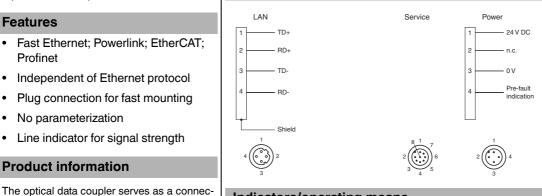


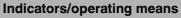


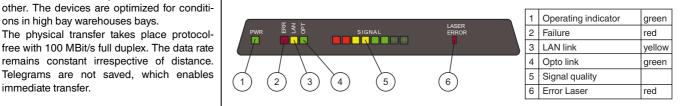




Electrical connection







Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



The standard states		
Technical data		
General specifications		
Effective detection range	0 150 m	
Threshold detection range	180 m	
Light source	laser diode	
Light type	modulated visible red light	
Laser nominal ratings		
Note	VISIBLE LASER RADIATION , DO NOT VIEW DIREC OPTICAL INSTRUMENTS	ILY WITH
Laser class	1M	
Wave length	660 nm	
Beam divergence	15 mrad	
Pulse length	8 ns	
Repetition rate	62.5 MHz	
Maximum optical power output	60 mW	
Diameter of the light spot	1.5 m at a distance of 100 m 1 °	
Angle of divergence	> 10000 Lux	
Ambient light limit	> 10000 Lux	
Functional safety related parameter	50.0	
MTTF _d	58.6 a	
Mission Time (T _M)	10 a	
Diagnostic Coverage (DC)	0 %	
Indicators/operating means		
Data flow indicator	LED green: OPTO-Link LED yellow: LAN-Link LED red: ERROR	
Function indicator	Signal strength (8 LED: Red, yellow, green)	
Electrical specifications		
Operating voltage U	18 30 V DC	
No-load supply current I0	200 mA	
Data rate	100 MBit/s (Fast Ethernet)	
Interface		
Interface type	100 BASE-TX	
Output		
Pre-fault indication output	1 PNP, inactive when falling short of the stability contro circuit protected, max. 200 mA	ol , short-
Ambient conditions		
Ambient temperature	-10 50 °C (14 122 °F)	
Storage temperature	-20 70 °C (-4 158 °F)	
Mechanical specifications		
Degree of protection	IP65	
Connection	4-pin, M12x1 connector, standard (supply) , 8-pin, M12x1 connector, service , 4-pin, M12x1 socket, D-coded (LAN)	
Material	F / / /	
Housing	ABS / PC	
Optical face	plastic	
Mass	700 g	
Compliance with standards and dirves	-	
Directive conformity		
EMC Directive 2004/108/EC	EN 61000-6-2:2005; EN 60947-5-2:2007	
Standard conformity		
Laser class	IEC 60825-1:2007 EN 60825-1:2007	
Approvals and certificates		
••	cULus Listed	
UL approval		

Laserlabel		
LASER LIGHT DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS LASER 1M LASER PRODUCT IEC 60825-1:2007 CERTIFIED. COMPLES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIA- TIONS PURSUANT TO LASER NOTICE NO. 50, DATED JUNE 24, 2007		
PRODUIT LASER CLASSE 1M CERTIFIÉ CEI 60825-1 : 2007. CONFORME AUX NORMES 21 CFR 1040.10 ET 1040.11 À L'EXCEPTION DES ÉCARTS CONFORMÉMENT À LA NOTICE DU LASER N° 50, DATÉE DU 24 JUIN 2007.		
Accessories		
OMH-LS610-01 Mounting bracket for optical data coupler		
OMH-LS610-02 Direct mounting set consisting of 4 x M4 threaded inserts		
OMH-LS610-03 Mounting bracket with deviation mirror for optical data coupler		
OMH-LS610-05 Mounting bracket for optical data coupler and distance measurement devices		
Other suitable accessories can be found at www.pepperl-fuchs.com		

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

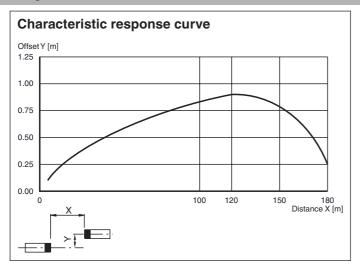
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Curves/Diagrams



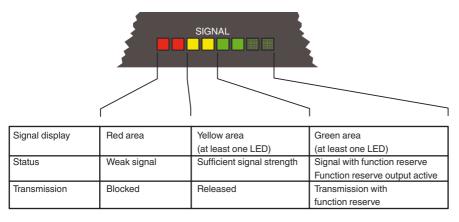
Function

The LS682-DA-EN is a device for serial data transfer in Ethernet systems. One F1 and one F2 device is needed for each data transfer link.

Data is transferred in both directions simultaneously by means of modulated light.

Function Displays/Signal Strength

A red alignment LED, which can be seen from a long way off, is located on the front of the device to serve as an alignment aid. As soon as a receiver detects the emitted light of the device opposite it, the flashing frequency of the alignment aid decreases. If the light goes out, this indicates that the devices are aligned with sufficient signal strength. For fine adjustment, the optical data coupler features a bar graph display (signal display) for optimum alignment.



Mounting

The device is mounted using appropriate accessories, e.g., OMH-LS610-01 for wall mounting.

The x-y adjuster is delivered preassembled. It is fixed in the required beam direction (±90° rotation possible) on the mounting bracket.

Laser notice laser class 1M

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- Caution: visible and invisible laser radiation, do not observe laser light with optical instruments such as magnifying glasses, microscopes, telescopes or binoculars!
- ٠ Maintenance and repairs should only be carried out by authorized service personnel!
- Attach the device so that the warning is clearly visible and readable.
- Caution: use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiaton exposure.

