



• Fast Ethernet; Powerlink; EtherCAT;

Independent of Ethernet protocol

Plug connection for fast mounting

Line indicator for signal strength

Version for low temperature applicati-

Model Number

Optical data coupler

Features

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Profinet

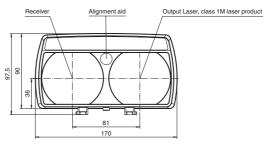
LS682-DA-EN/F1/35/146

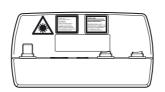
No parameterization

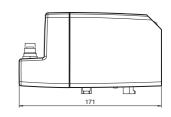
Product information

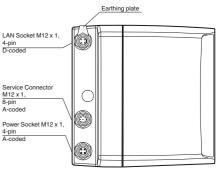
ons in high bay warehouses bays.

immediate transfer.



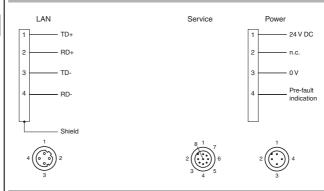




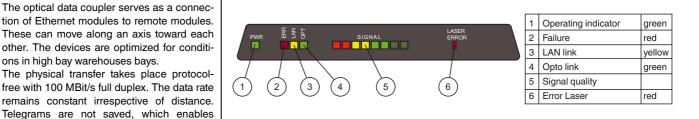


Electrical connection

Dimensions



Indicators/operating means



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

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



Pepperl+Fuchs Group www.pepperl-fuchs.com 0... 300 m 350 m

laser diode

1M

8 ns

1 °

785 nm

15 mrad

62.5 MHz

> 10000 Lux

60 mW

58 6 a

10 a

0%

UB

I0

modulated infrared light

WITH OPTICAL INSTRUMENTS

1.5 m at a distance of 100 m

LED green: OPTO-Link

100 MBit/s (Fast Ethernet)

circuit protected, max. 200 mA

-30 ... 50 °C (-22 ... 122 °F)

-40 ... 70 °C (-40 ... 158 °F)

4-pin, M12x1 connector, standard (supply), 8-pin, M12x1 connector, service 4-pin, M12x1 socket, D-coded (LAN)

Signal strength (8 LED: Red, yellow, green)

1 PNP, inactive when falling short of the stability control , short-

LED yellow: LAN-Link LED red: ERROR

18 ... 30 V DC

100 BASE-TX

200 mA

IP65

ABS / PC

plastic

700 g

INVISIBLE LASER RADIATION , DO NOT VIEW DIRECTLY

Technical data
General specifications
Effective detection range
Threshold detection range

Light source Light type Laser nominal ratings Note

Laser class Wave length Beam divergence Pulse length Repetition rate Maximum optical power output Diameter of the light spot Angle of divergence Ambient light limit Functional safety related parameters

MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) Indicators/operating means Data flow indicator

Function indicator **Electrical specifications**

Operating voltage No-load supply current Data rate

Interface type Output Pre-fault indication output

Ambient conditions

Interface

Ambient temperature Storage temperature **Mechanical specifications**

Degree of protection Connection

Material Housing Optical face Mass

Compliance with standards and directi-

ves Directive conformity EMC Directive 2004/108/EC Standard conformity Laser class

Approvals and certificates

UL approva

EN 61000-6-2:2005; EN 60947-5-2:2007 IEC 60825-1:2007 EN 60825-1:2007

cULus Listed

Laserlabel



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 www.pepperl-fuchs.com

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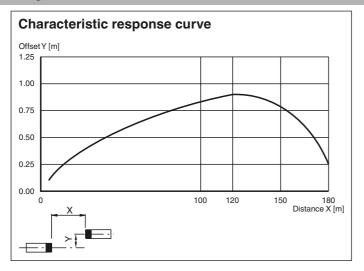
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Curves/Diagrams



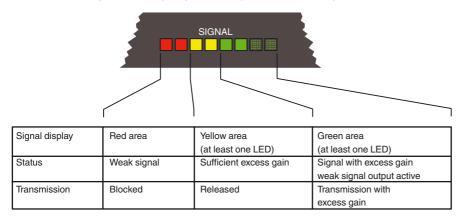
Function

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/Excess Gain

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 excess gain. 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.



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