



Model Number

OLV125-F225-B12-40

Linerunner 300 laser light sensor for measuring height and width information

Features

- Master/Slave operation
- Intelligent exposure time control
- Laser protection class 1
- Measuring range z = 65 mm ... 125 mm

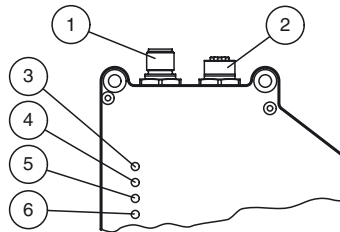
Function

The LineRunner is a high performance laser light sensor in the Pepperl+Fuchs family of sensors for industrial applications. In the laser light process, a laser line projected onto an object is detected by a camera at a specific angle. Height and width information are determined using the triangulation principle.

With its high performance hardware and software platform, the LineRunner provides innovative and modular solutions for performance, communication, and maintenance.

It reliably measures a wide variety of surfaces thanks to innovative laser technology and intelligent exposure control. It is laser protection class 1, which eliminates additional-protective measures.

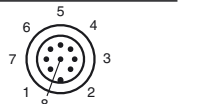
Indicating / Operating means



1	24 V DC + I/O	
2	LAN	
3	LED POWER	green
4	LED LAN	yellow
5	LED LASER	green
6	LED STATUS	green

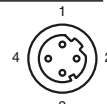
Electrical connection

24 V DC + I/O



Pin	Signal
1	OUT Ready
2	+UB
3	IN Encoder A
4	OUT Trigger
5	IN Trigger
6	IN Encoder Z
7	GND
8	IN Encoder B

LAN



Pin	Signal
1	TX+ Ethernet
2	RX+ Ethernet
3	TX- Ethernet
4	RX- Ethernet

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Technical data**General specifications**

Measurement range	Xmin = ±15 mm Xmax = ±21.5 mm Z = 65 mm ... 125 mm
Light source	laser diode
Light type	Red laser for measuring location indication, 650 nm Infrared light laser as measuring laser, 785 nm Both laser lines are congruent and are operated in parallel
Laser nominal ratings	
Note	VISIBLE AND INVISIBLE LASER RADIATION , DO NOT STARE INTO BEAM DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS
Laser class	1
Wave length	Alignment laser: 650 nm Measurement laser: 785 nm
Pulse length	Measurement laser: 20 ms
Maximum optical power output	Alignment laser: 1.4 mW Measurement laser: 6 mW
Laser monitoring	The safety system switches off the laser when the laser current is too high
Scan rate	90 s ⁻¹

Indicators/operating means

Operating display	LED green
Function display	LAN, laser, status

Electrical specifications

Operating voltage	U _B	24 V DC ± 10 %, SELV/PELV
Power consumption	P ₀	max. 5 W , Outputs without load

Interface

Interface type	Ethernet via TCP/IP , 100 Mbit/s
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Input

Input voltage	24 V
Number/Type	3 digital inputs and external trigger

Output

Number/Type	2 digital outputs
Switching type	PNP
Switching voltage	24 V

Ambient conditions

Ambient temperature	0 ... 40 °C (32 ... 104 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)

Mechanical specifications

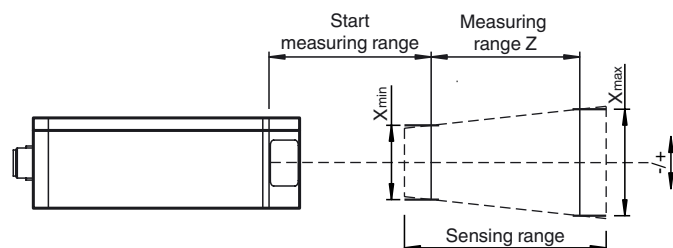
Protection degree	IP65
Connection	8-pin, M12 x 1 connector (supply voltage + I/O) connector M12 x 1, 4-pin (Ethernet)
Material	
Housing	anodized aluminium
Optical face	glass pane
Mass	approx. 500 g

Compliance with standards and directives

Standard conformity	
Noise immunity	EN 60947-5-2
Emitted interference	EN 60947-5-2
Protection degree	EN 60529
Laser class	IEC 60825-1:2007

Notes

Measuring range LineRunner

**Accessories****V19-G-5M-PUR-ABG**

Cable socket, M12, 8-pin, shielded, PUR cable

V1SD-G-2M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V1SD-G-2M-PUR-ABG-V45X-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

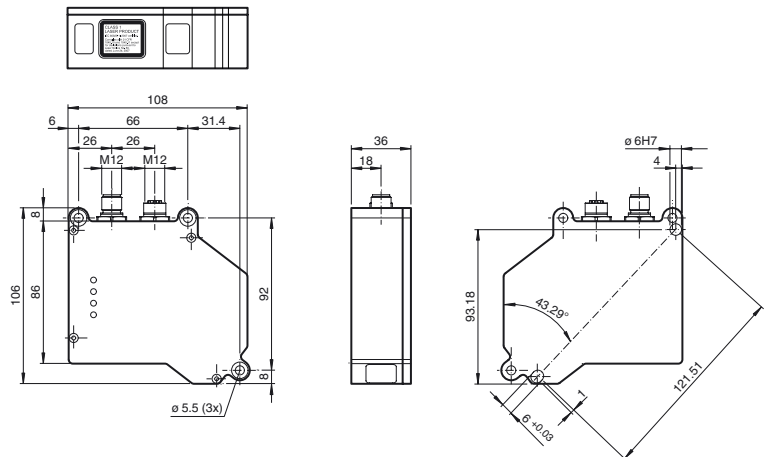
Laserlabel**CLASS 1
LASER PRODUCT**

IEC 60825-1: 2007 certified.

Complies with 21 CFR
1040.10 and 1040.11 except
for deviations pursuant to
Laser Notice No. 50,
dated June 24, 2007

Other suitable accessories can be found at
www.pepperl-fuchs.com

Dimensions



Laser notice laser class 1

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- Maintenance and repairs should only be carried out by authorized service personnel!
- Attach the device so that the warning is clearly visible and readable.
- The warning accompanies the device and should be attached in immediate proximity to the device.
- Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.