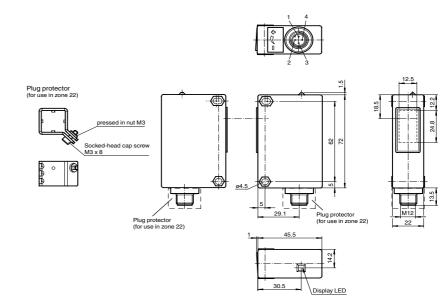
Thru-beam sensor

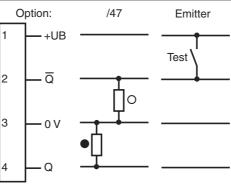


CE



Electrical connection

Dimensions



O = Light on = Dark on

Model Number

L32/LV32-EX2/47/73c

Thru-beam sensor with 4-pin, M12 x 1 plastic connector

Features

- ATEX-approval for zone 2 and • zone 22
- Sleek design, especially for storage ٠ and conveyor systems
- Excellent optical performance data •
- Scratch-resistant and solvent resistant glass lens

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

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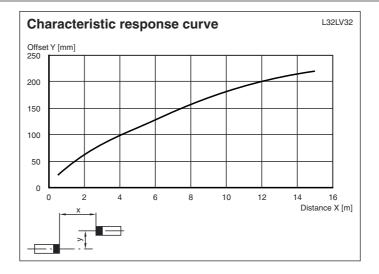


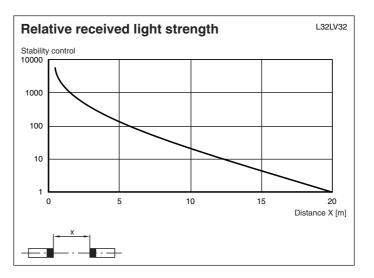
Technical data	
System components	
Emitter Receiver	L32-EX2/73c LV32-EX2/47/73c
General specifications	LV32-EX2/4///30
Effective detection range	0 10 m
Threshold detection range	20 m
Light source	LED , 660 nm
Light type	modulated visible red light
Target size Diameter of the light spot	18 mm approx. 500 mm at 10 m detection range
Angle of divergence	approx. 3 °
Ambient light limit	100000 Lux
Functional safety related paramo MTTF _d	ers 255 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	90 %
ndicators/operating means Function indicator	LED yellow, lights up when light beam is free, flashes when falling short of the stability control
Electrical specifications	
Operating voltage	U _B 10 30 V DC 10 %
Ripple No-load supply current	In 50 mA
nput	
Test input	Emitter deactivation
Output	
Switching type	light/dark on
Signal output	2 PNP, complementary, short-circuit protected, reverse polarity protected
Switching voltage Switching current	30 V DC max. 50 mA
Switching frequency	f 150 Hz
Response time	3 ms
Ambient conditions	
Ambient temperature	-20 50 °C (-4 122 °F)
Storage temperature	-20 60 °C (-4 140 °F)
Mechanical specifications	IDAE
Degree of protection Connection	IP65 Plastic connector M12 x 1, 4-pin
Material	
Housing	Terluran GV15
Optical face	glass
Mass	60 g (device)
General information	
Use in the hazardous area	see more details for the use in hazardous areas 3G; 3D
Category Compliance with standards and	
ves	
Directive conformity	
EMC Directive 2004/108/EC	EN 60947-5-2:2007
Standard conformity Product standard	EN 60947-5-2:2007
FIDUUCI Standard	IEC 60947-5-2:2007
Approvals and certificates	
CCC approval	CCC approval / marking not required for products rated ≤36 V
ATEX 3G (nA)	
Instruction	Manual electrical apparatus for hazardous areas
Device category 3G (nA)	for use in hazardous areas with gas, vapour and mist
· ·	
ATEX marking	(Ex) II 3 G Ex nAc op is IIC T4
Directive conformity	94/9/EG
Standards	EN 60079-0:2009 , EN 60079-15:2010 , EN 60079-28:2007
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed. Attach the connector fuse provided so that the connector cannot be unplugged without using tools. Only connections that are disconnected from the power supply may be unplugged.
Maintenance	No modifications must be undertaken on apparatus, which is operated in hazardous areas. Repairs t such apparatus are not permissible.
Specific conditions	
Maximum permissible ambient	emperature T _{Umax} 50 °C (122 °F)
Protection from mechanical da	per The apparatus must be protected from mechanical damage.
Protection of overvoltage	Precautions must be taken to prevent the rated voltage being exceeded by more than 40 % due to tra sient disturbances.
Protect from direct sunlight	Set up the apparatus so that optical components cannot come into contact with direct sunlight.
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Thru-beam sensor	L32/LV32-EX2/47/73c
Protection from UV light	The sensor must be protected against harmful UV radiation. This can be achieved by using the sensor indoors.
Other conditions	The optical light from the emitter must not be focused. The plug connector must not be disconnected under voltage. When the plug connector is disconnected the ingress of dirt into the inner areas (i.e. the areas, which are not accessible in the plugged-in condition) must be prevented. The plug connection can only be separated using a tool. This is achieved by using the unlocking protection "Plug protector" (Mounting accessory from Pepperl + Fuchs).
ATEX 3D	
Instruction	Manual electrical apparatus for hazardous areas
Details for use in hazardous areas	Electrical apparatus for potentially explosive atmospheres
ATEX marking	⟨𝔅⟩ II 3 D Ex tc IIIC T75 °C
Directive conformity	94/9/EG
Standards	EN 60079-31:2009
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed. Attach the connector fuse provided so that the connector cannot be unplugged without using tools. Only connections that are disconnected from the power supply may be unplugged.
Maintenance	No modifications must be undertaken on apparatus, which is operated in hazardous areas. Repairs to such apparatus are not permissible.
Specific conditions	
Protection from mechanical danger	The apparatus must be protected from mechanical damage.
Protection of overvoltage	Precautions must be taken to prevent the rated voltage being exceeded by more than 40 % due to tran- sient disturbances.
Protection from UV light	The sensor must be protected against harmful UV radiation. This can be achieved by using the sensor indoors.
Other conditions	Set up the apparatus so that optical components cannot come into contact with direct sunlight.

Curves/Diagrams





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