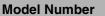
Thru-beam sensor



CE

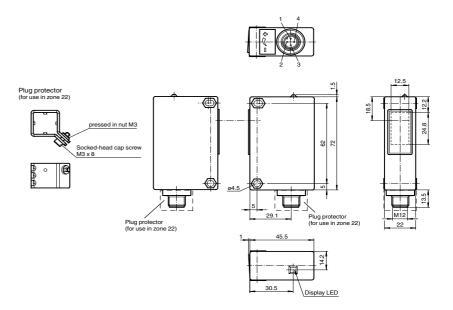


L32/LV32-EX2/35/47/73c

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

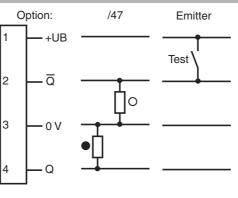
Features

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



Electrical connection

Dimensions



O = Light on● = Dark on

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

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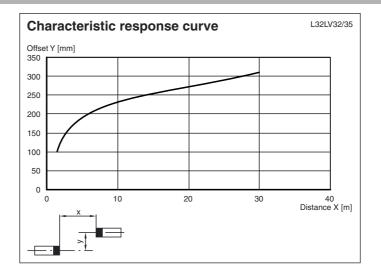
Technical data		
System components		
Emitter	L32-EX2/35/	
Receiver	LV32-EX2/47	773C
General specifications Effective detection range	0 30 m	
Threshold detection range	45 m	
Light source	LED	
Light type		sible red light
Target size	18 mm	
Diameter of the light spot	approx. 500	mm at 10 m detection range
Angle of divergence	approx. 3 °	
Ambient light limit	60000 Lux	
Functional safety related parame	eters	
MTTF _d	255 a	
Mission Time (T _M)	20 a	
Diagnostic Coverage (DC)	90 %	
Indicators/operating means		
Function indicator	LED yellow, I	ights up when light beam is free, flashes when falling short of the stability control
Electrical specifications		
Operating voltage	U _B 10 30 V DO	2
Ripple	10 %	
No-load supply current	l ₀ 50 mA	
Input Tost input	Emittardar	tivation
Test input	Emitter deact	וימוטו
Output	light/dark on	
Switching type Signal output	0	lementary, short-circuit protected, reverse polarity protected
Switching voltage	30 V DC	ienenary, short-circuit protected, reverse polarity protected
Switching current	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		
Degree of protection	IP65	
Connection	Plastic conne	ector M12 x 1, 4-pin
Material		
Housing	Terluran GV1	15
Optical face	glass	
Mass	60 g (device)	
General information		
Use in the hazardous area		tails for the use in hazardous areas
Category	3G; 3D	
Compliance with standards and ves	directi-	
Directive conformity		
EMC Directive 2004/108/EC	EN 60947-5-2	2:2007
Standard conformity		
Product standard	EN 60947-5-2	2:2007
	IEC 60947-5-	2:2007
Approvals and certificates		
CCC approval		/al / marking not required for products rated ≤36 V
	000 appior	
ATEX 3G (nA)		March 1 and 1
Instruction		Manual electrical apparatus for hazardous areas
Device enteromy 2C (nA)		for use in becaude us areas with see use out mist
Device category 3G (nA)		for use in hazardous areas with gas, vapour and mist \bigcirc use a new second seco
ATEX marking		⟨٤x⟩ 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 to such apparatus are not permissible.
Specific conditions		
Maximum permissible ambient temperature T _{Umax}		50 °C (122 °F)
Protection from mechanical dar	nger	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 transient disturbances.
Protect from direct sunlight	to Despect First D. 1	Set up the apparatus so that optical components cannot come into contact with direct sunlight.
Refer to "General Notes Relating	io repperi+Fuchs Produc	

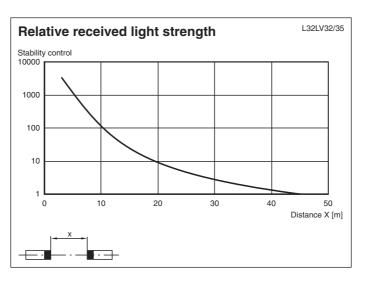
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Thru-beam sensor	L32/LV32-EX2/35/47/73c
Protection from UV light	The sensor must be protected against harmful UV radiation. This can be achieved by using the sensor indoors.
Other conditions	The optical light from the emitter must not be focused. The 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	€ 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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