Thru-beam sensor







Model Number

LA39/LK39-Z/31/40a/116

Thru-beam sensor with terminal compartment

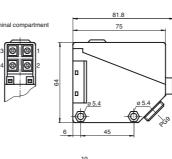
Features

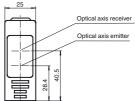
- Light/dark ON, switchable ٠
- Timer function
- Supplied with mounting accessory ٠
- Protection degree IP67

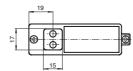
Product information

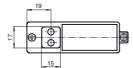
Series 39 sensors are characterized by their high performance level, compact housing design, and variety of available versions. These include thru-beam sensors with a 20 m detection range, retroreflective sensors with polarization filter for a 5 m detection range, energetic diffuse mode sensors with an 800 mm and 2000 mm detection range, and a background suppression sensor with 500 mm detection range. Fitted in a robust plastic housing, this series is ideal for tough industrial applications.

The sensors are supplied with 10 V to 30 V DC, or 24 V to 240 V AC/DC. Various transistor and relay outputs are available as signal outputs. Standard features include prefault diagnostics and pre-fault output. The switching element function can be changed using the light/dark switch.

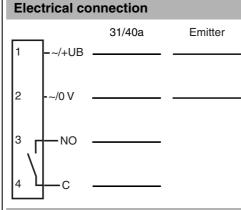




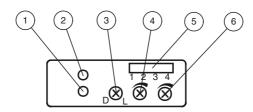




Dimensions



Indicators/operating means



1	Operating display red (Transmitter)
1	Pre-fault indication red (Receiver)
2	Switch state yellow
3	Light/dark on switch
4	Sensitivity adjustment
5	Timer mode switch (version -Z)
6	Time adjuster (version -Z)

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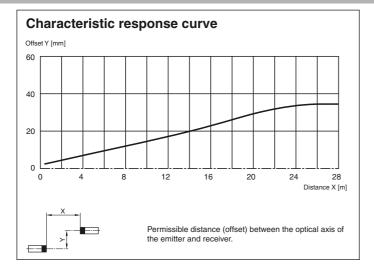
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Technical data		
General specifications		
Effective detection range		0 20 m
Threshold detection range		30 m
Adjustment range		800 30000 mm
Reference target		receiver
Light source		IRED
Light type		modulated infrared light
Approvals		CE
Ambient light limit		10000 Lux
Indicators/operating means		
Operating display		LED red (emitter)
Function display		LED yellow: switching state (receiver) LED red: pre-fault indicator, flashing (receiver)
Controls		sensitivity adjustment
Controls		Light/Dark switch (receiver)
Controls		switch for timer function
Electrical specifications		
Operating voltage	UB	12 240 V DC / 24 240 V AC (50 60 Hz)
Ripple	- D	10 %
No-load supply current	I ₀	≤ 55 mA (device)
Power consumption	Po	≤ 3 VA
Time delay before availability	t _v	≤ 50 ms
Output	v	
Switching type		light/dark on
Signal output		1 relay output
Switching voltage		< 240 V AC
Switching current		max. 3 A
Switching frequency	f	≤ 25 Hz
Response time	•	< 20 ms
Timer function		On-/off-delay or pulse extension on choice
Standard conformity		
Standards		EN 60947-5-2
Ambient conditions		
Ambient temperature		
Storage temperature		-25 55 °C (-13 131 °F) -40 70 °C (-40 158 °F)
· ·		-40 70 C (-40 138 T)
Mechanical specifications		1007
Protection degree		IP67
Connection		terminal compartment PG9, \leq 2.5 mm ²
Material		РВТ
Housing		
Optical face		PMMA
Mass		emitter: 90 g receiver: 100 g
Compliance with standards and ves	directi-	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Approvals and cortificator		
Approvals and certificates		Cartified by Chips Compulsory Cartification (CCC)
CCC approval		Certified by China Compulsory Certification (CCC)

Curves/Diagrams



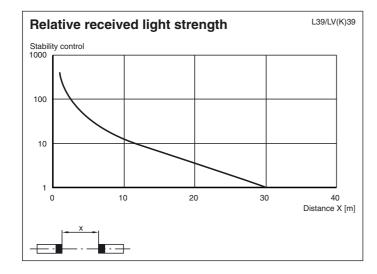
Accessories

OMH-RL39 Mounting bracket for RL39 series Sensors

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

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Denotes Dark - ON

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