

CE

Model Number

LA39/LK39/31/40a/116

Thru-beam sensor with terminal compartment

Features

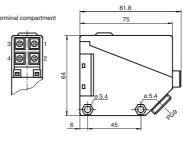
- Light/dark ON, switchable ٠
- Supplied with mounting accessory ٠
- Degree of protection IP67 •

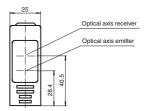
Product information

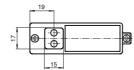
Series 39 sensors are characterized by their high performance level, compact housing design, and variety of available versions. These include thru-beam sensors with a 20 m detection range, retroreflective sensors with polarization filter for a 5 m detection range, energetic diffuse mode sensors with 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.

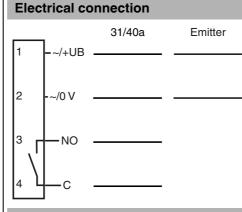
The sensors are supplied with 10 V to 30 V DC, or 24 V to 240 V AC/DC. Various transistor and relay outputs are available as signal outputs. Standard features include prefault diagnostics and pre-fault output. The switching element function can be changed using the light/dark switch.

Dimensions

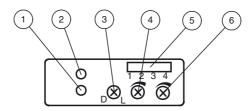








Indicators/operating means



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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Mounting bracket for RL39 series Sen-

Other suitable accessories can be found at

Accessories OMH-RL39

www.pepperl-fuchs.com

sors

Technical data		
System components		
Emitter		LA39/116
Receiver		LK39/31/40a/116
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
Ambient light limit		10000 Lux
Functional safety related parar	neters	
MTTFd		916 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED red (emitter)
Function indicator		LED yellow: switching state (receiver)
		LED red: pre-fault indicator, flashing (receiver)
Control elements		sensitivity adjustment
Control elements		Light/Dark switch (receiver)
Electrical specifications		
Operating voltage U _B		12 240 V DC / 24 240 V AC (50 60 Hz)
Ripple		10 %
No-load supply current I ₀		≤ 55 mA (device)
Power consumption P		≤ 3 VA
Time delay before availability t _v		≤ 50 ms
Output		
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
Ambient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		terminal compartment PG9, $\leq 2.5 \text{ mm}^2$
Material		······································
Housing		PBT
Optical face		РММА
Mass		emitter: 90 g
		receiver: 100 g
General information		
Scope of delivery		Mounting aid
Compliance with standards an ves	d direct	i-
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
CCC approval		Certified by China Compulsory Certification (CCC)
Approvals		CE
1. Provide a series		

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

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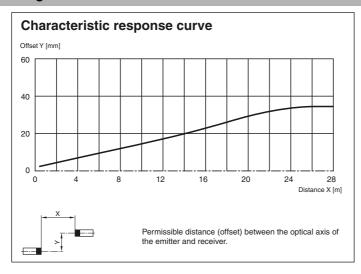
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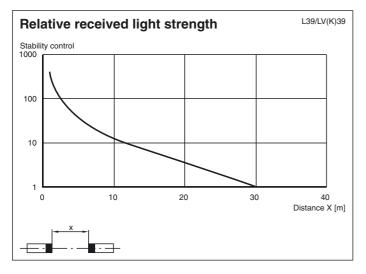
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Curves/Diagrams





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