





Model Number

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

Thru-beam sensor with terminal compartment

Features

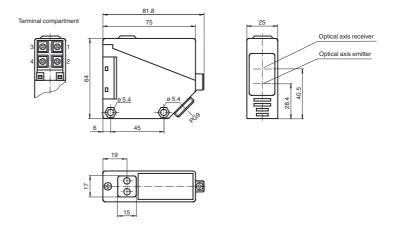
- Light/dark ON, switchable
- · Timer function
- · Supplied with mounting accessory
- · Degree of protection IP67

Product information

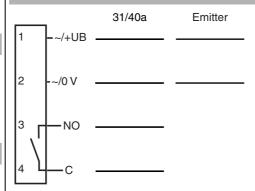
Series 39 sensors are characterized by their high performance level, compact housing design, and variety of available versions. These include thru-beam sensors with a 20 m detection range, retroreflective sensors with polarization filter for a 5 m detection range, energetic diffuse mode sensors with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

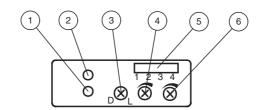
Dimensions



Electrical connection



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
- Timer mode switch (version -Z)
- 6 Time adjuster (version -Z)

www.pepperl-fuchs.com

N		
System components		1.000/440
Emitter		LA39/116
Receiver		LK39-Z/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 paramet	ers	
MTTF _d		916 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
ndicators/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)
Control elements		switch for timer function
Electrical specifications		
·	UB	12 240 V DC / 24 240 V AC (50 60 Hz)
Ripple		10 %
	l ₀	≤ 55 mA (device)
•	P ₀	≤ 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
	f	≤ 25 Hz
Response time		≤ 20 ms
Timer function		On-/off-delay or pulse extension on choice
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, ≤ 2.5 mm ²
Material		
Housing		PBT
Optical face		PMMA
Mass		emitter: 90 g receiver: 100 g
General information		
Scope of delivery		Mounting aid
Compliance with standards and d ves	lirecti-	
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)

CE

fa-info@us.pepperl-fuchs.com

Accessories

OMH-RL39

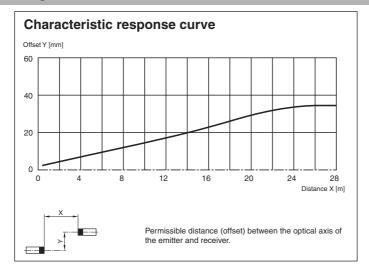
Mounting bracket for RL39 series Sen-

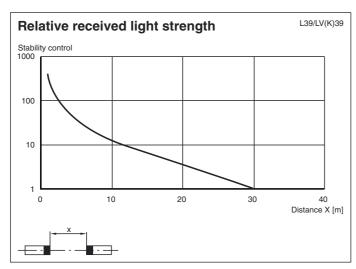
Other suitable accessories can be found at www.pepperl-fuchs.com

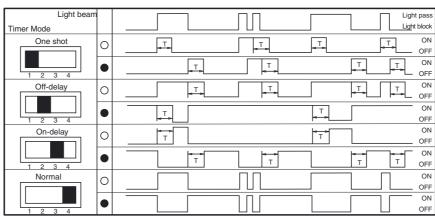
fa-info@sg.pepperl-fuchs.com

Approvals

Curves/Diagrams







- O Denotes Light ON T= 0.1 10 sec.
- Denotes Dark ON