







## **Model Number**

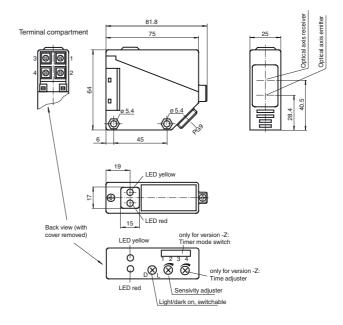
### RLK39-54-5594/31/40a/116

Retroreflective sensor with terminal compartment

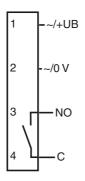
### **Features**

- Glare protected with polarization filter
- Visible red light
- Light/dark ON, switchable
- Degree of protection IP67

## **Dimensions**



## **Electrical connection**





Technical data		
General specifications		
Effective detection range		0 5 m
Reflector distance		0.1 5 m
Threshold detection range		6 m
Reference target		H50 reflector
Light source		LED red
Light type		modulated visible red light
Polarization filter		yes
Ambient light limit		IEC / EN 60947-5-2 , 10000 Lux
Functional safety related parame	eters	
MTTF <sub>d</sub>		803 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		LED yellow: switching state
		LED red: pre-fault indication
Control elements		Sensing range adjuster, light-on/dark-on changeover switch
Electrical specifications		
Operating voltage	$U_B$	12 240 V DC
Pipplo		24 240 V AC (50 60 Hz) 10 %
Ripple	1.	10 % ≤ 50 mA
No-load supply current Protection class	I <sub>0</sub>	
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution!
		The protection class 2 is only valid when the terminal
		compartment is closed. output circuit has basic insulation to
	_	control circuit according to IEC/EN 61140
Power consumption	P <sub>0</sub>	≤3 VA
Time delay before availability	t <sub>v</sub>	≤ 300 ms
Output		
Switching type		light/dark on
Signal output		1 relay output
Switching voltage		max. 240 V AC ; 150 V DC
Switching current		max. 3 A DC: max. 90 W AC: max. 750 VA
Switching power	f	< 25 Hz
Switching frequency Response time	•	≤ 20 ms
·		\$ 20 IIIS
Ambient conditions		OF FF 9C / 10 101 9F\
Ambient temperature		-25 55 °C (-13 131 °F) -40 70 °C (-40 158 °F)
Storage temperature		-40 70 · C (-40 136 · F)
Mechanical specifications		05
Housing width		25 mm
Housing height Housing depth		64 mm 75 mm
Degree of protection		1P67
Connection		terminal compartment PG9, ≤ 2.5 mm <sup>2</sup>
Material		terminal compartment FG9, \$2.5 mm
Housing		PBT
Optical face		PMMA
Mass		approx. 110 g
Compliance with standards and		approxit to g
directives		
Directive conformity		EMC Directive 2004/108/EC
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012
Standard conformity		
Product standard		EN 60947-5-2:2007
		IEC 60947-5-2:2007
Approvals and cortificates		
Approvals and certificates  EAC conformity		TR CU 020/2011
EAG comornity		TR CU 004/2011 TR CU 004/2011
CCC approval		Certified by China Compulsory Certification (CCC)

## **Accessories**

## OMH-RL39

Mounting bracket for RL39 series Sensors

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

fa-info@sg.pepperl-fuchs.com

www.pepperl-fuchs.com

Approvals

CE

# **Curves/Diagrams**

