

#### CE EAE ) M

### **Model Number**

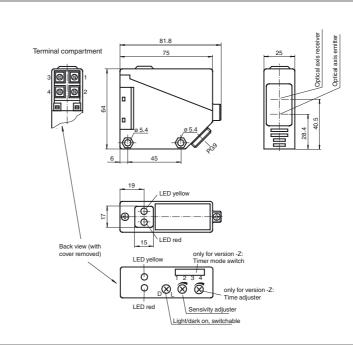
# RLK39-8-2000/31/40a/116

Diffuse mode sensor with terminal compartment

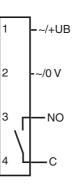
## **Features**

- ٠ Infrared light
- Light/dark ON, switchable •
- Degree of protection IP67 •

## **Dimensions**



#### **Electrical connection**



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com



Technical data		
General specifications		
Detection range		0 2000 mm
Adjustment range		200 2000 mm
Reference target		standard white 200 mm x 200 mm
Light source		IRED
Light type		modulated infrared light
Ambient light limit		IEC / EN 60947-5-2 , 10000 Lux
Functional safety related param	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	UB	12 240 V DC 24 240 V AC (50 60 Hz)
Ripple		10 %
No-load supply current	I <sub>0</sub>	≤ 35 mA
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>	≤ 50 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
Switching power		DC: max. 90 W AC: max. 750 VA
Switching frequency	f	≤ 25 Hz
Response time		≤ 20 ms
Standard conformity Standards		EN 60947-5-2
Ambient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Housing width		25 mm
Housing height		64 mm
Housing depth		75 mm
Degree of protection		IP67
Connection		terminal compartment PG9, $\leq$ 2.5 mm <sup>2</sup>
Material		
Housing		PBT
Optical face		PMMA
Mass		approx. 110 g
General information		
Scope of delivery		Mounting aid
Compliance with standards and directives		
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
EAC conformity		TR CU 020/2011 TR CU 004/2011
CCC approval		Certified by China Compulsory Certification (CCC)
Approvals		CE

Accessories

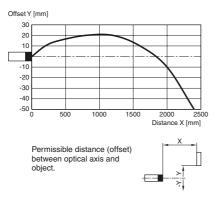
OMH-RL39 Mounting bracket for RL39 series Sensors

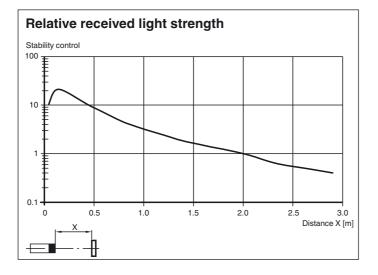
2



## **Curves/Diagrams**

#### Characteristic response curve





Release date: 2018-07-31 14:36 Date of issue: 2018-07-31 088827\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

