

CE EAE \mathbb{M}

Model Number

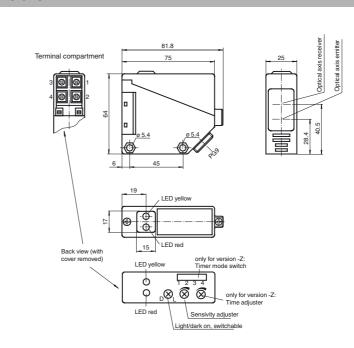
RLK39-8-2000-Z/31/40a/116

Diffuse mode sensor with terminal compartment

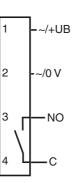
Features

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

Dimensions



Electrical connection



Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091 fa-info@sg.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 IRED
Light source Light type		modulated infrared light
Ambient light limit		IEC / EN 60947-5-2 , 10000 Lux
Functional safety related parame	eters	
MTTF _d		803 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		LED yellow: switching state
Control elements		LED red: pre-fault indication Sensing range adjuster, light-on/dark-on changeover switch
Control elements		switch for timer function
Electrical specifications		
Operating voltage	UB	12 240 V DC
		24 240 V AC (50 60 Hz)
Ripple		10 %
No-load supply current Protection class	Ι _Ο	≤ 50 mA
FIDECIUM 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 ₀	≤3VA
Time delay before availability	t _v	≤ 300 ms
Output		light/dark on
Switching type Signal output		light/dark on 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
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 Housing width		25 mm
Housing height		64 mm
Housing depth		75 mm
Degree of protection		IP67
Connection		terminal compartment PG9, \leq 2.5 mm ²
Material		
Housing		PBT
Optical face		PMMA
Mass General information		approx. 110 g
Scope of delivery		Mounting aid
Compliance with standards and 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 certificates		
EAC conformity		TR CU 020/2011
- 1		TR CU 004/2011
CCC approval		Certified by China Compulsory Certification (CCC)
Approvals		CE

Accessories

OMH-RL39 Mounting bracket for RL39 series Sensors

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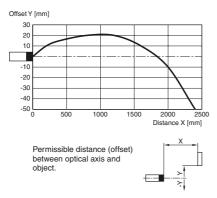
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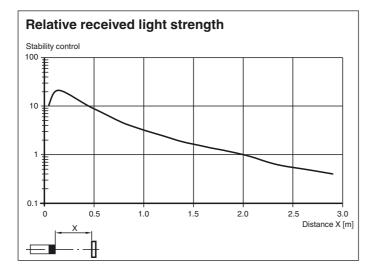


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Curves/Diagrams

Characteristic response curve





Light bear Timer Mode	n				t pass t block
One shot	0		T	₹_ →	ON OFF
	•		T	T T	ON OFF
Off-delay	0		T		ON OFF
	•			T	ON OFF
On-delay	0	⊲ ⊳ T		₹	ON OFF
	•		₹ ₽ Ţ		ON OFF
Normal	0				ON OFF
	•				ON OFF

O Denotes Light - ON T= 0.1 10 sec.

Denotes Dark - ON

