



# Retroreflective sensor RLK28-55-1518

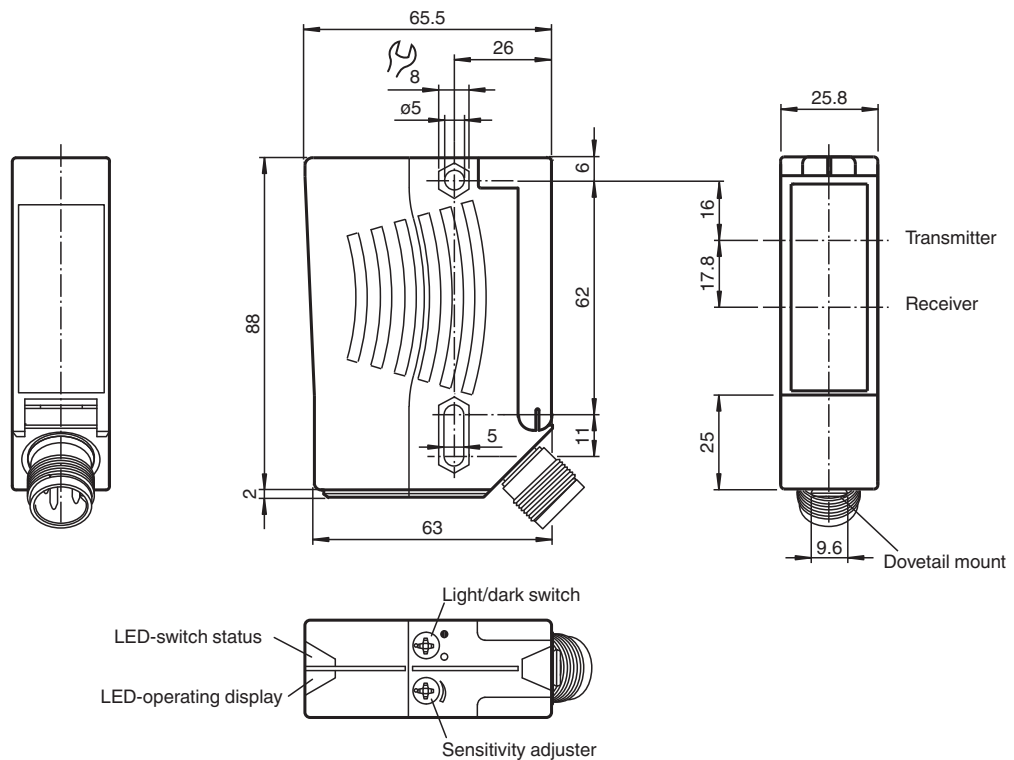


- Ultra bright LEDs for power on, weak signal indication and switching state
- Not sensitive to ambient light, even with switched energy saving lamps
- Waterproof, degree of protection IP67
- Protection class II

Retroreflective sensor with polarization filter



## Dimensions



## Technical Data

### General specifications

Effective detection range	0 ... 17 m
Reflector distance	0.05 ... 17 m

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

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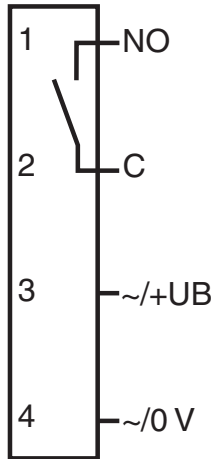
**pf** PEPPERL+FUCHS

## Technical Data

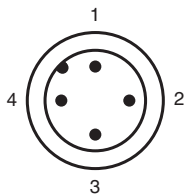
Threshold detection range	21 m	
Reference target	H85-2 reflector	
Light source	LED	
Light type	modulated visible red light , 660 nm	
Polarization filter	yes	
Diameter of the light spot	approx. 290 mm at a distance of 17 m	
Opening angle	emitter 1.2° receiver 2°	
Ambient light limit	80000 Lux	
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>	600 a	
Mission Time (T <sub>M</sub> )	20 a	
Diagnostic Coverage (DC)	0 %	
<b>Indicators/operating means</b>		
Operation indicator	LED green	
Function indicator	2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted	
Control elements	sensitivity adjustment (Adjustment to < 25% of the effective operating range) , Light-on/dark-on changeover switch	
<b>Electrical specifications</b>		
Operating voltage	U <sub>B</sub>	12 ... 240 V AC/DC
Power consumption	P <sub>0</sub>	≤ 3.5 VA
<b>Output</b>		
Switching type	light/dark on switchable	
Signal output	relay, 1 NO	
Switching voltage	max. 250 V AC/DC	
Switching current	max. 2 A	
Switching power	DC: max. 50 W AC: max. 500 VA	
Switching frequency	f	25 Hz
Response time	20 ms	
<b>Conformity</b>		
Product standard	EN 60947-5-2	
<b>Approvals and certificates</b>		
Protection class	II, rated insulation voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit insulated from control circuit in accordance with IEC 61140. Caution! The protection class 2 is only valid when the terminal compartment is closed.	
<b>Ambient conditions</b>		
Ambient temperature	-40 ... 60 °C (-40 ... 140 °F)	
Storage temperature	-40 ... 60 °C (-40 ... 140 °F)	
<b>Mechanical specifications</b>		
Housing width	25.8 mm	
Housing height	88 mm	
Housing depth	65.5 mm	
Degree of protection	IP67	
Connection	connector M18, 4-pin	
<b>Material</b>		
Housing	Plastic ABS	
Optical face	Plastic pane	
Mass	112 g	

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**Connection Assignment**

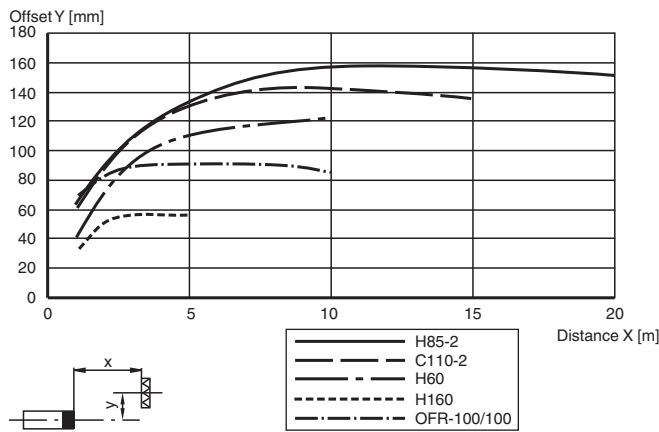


**Connection Assignment**



**Characteristic Curve**

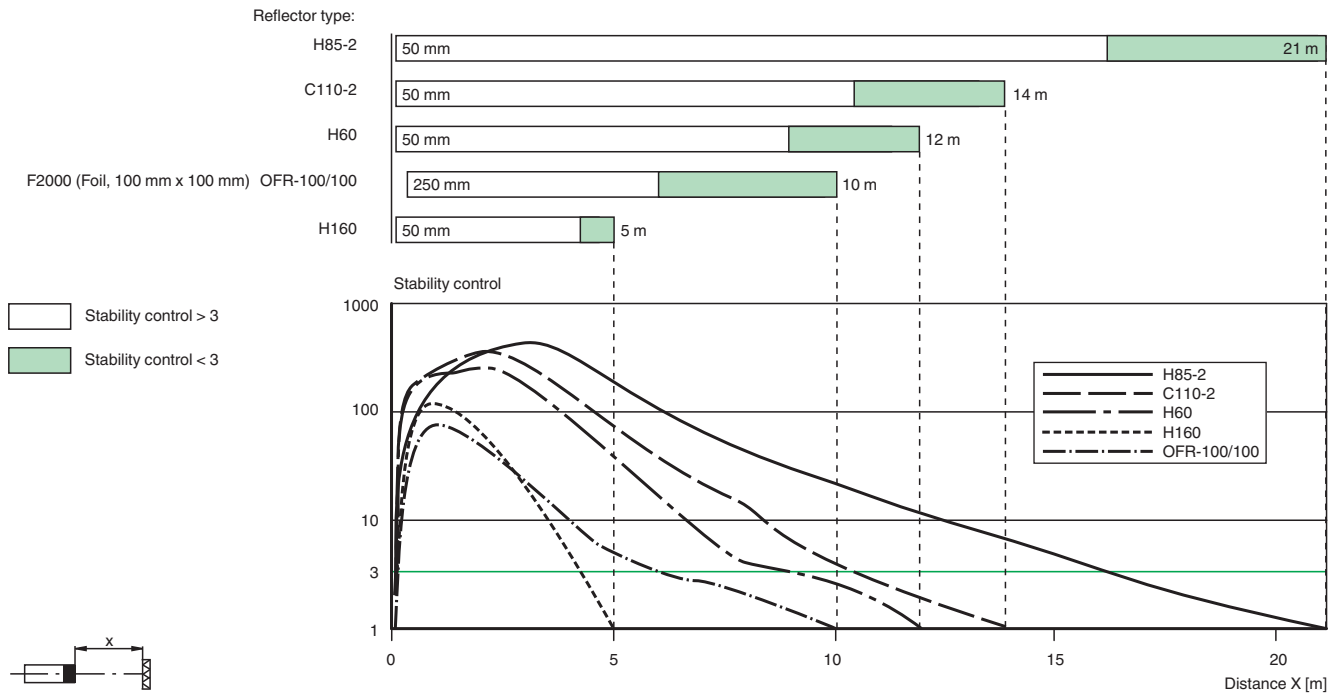
**Characteristic response curve**








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## Characteristic Curve

### Relative received light strength



## Accessories

	<b>OMH-05</b>	Mounting aid for round steel $\varnothing$ 12 mm or sheet 1.5 mm ... 3 mm
	<b>OMH-21</b>	Mounting bracket: mounting aid for sensors in the RL* series
	<b>OMH-22</b>	Mounting aid for RL* series
	<b>OMH-RLK29-HW</b>	Mounting bracket for rear wall mounting
	<b>OMH-RL28-C</b>	Weld slag cover model

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