



Retroreflective sensor

RLK29-55/59/116



- Robust, compact photoelectric sensor for single-beam gate protection
- Not sensitive to ambient light, even with energy saving lamps
- Tamper-proof, no operating controls
- Version for universal voltages
- Relay output

Robust, compact, long range photoelectric sensors for detecting people, objects and vehicles









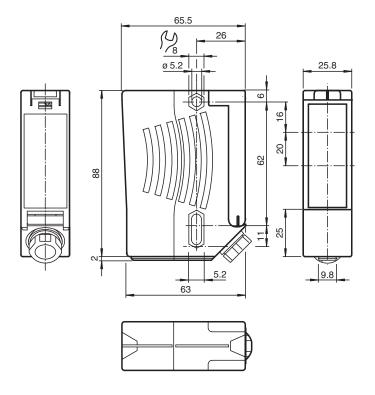
Function

Series 29 is a range of low-cost and, most importantly, reliable photoelectric sensors for monitoring industrial doors, elevators, and automatic gates. Their high degree of protection makes them the ideal solution for tasks outdoors and at thresholds, and in harsh environments. These "universal-voltage sensors" can be operated with any supply voltage from 24 V to 240 V, and with direct current or alternating current.

Application

- · Monitoring closing edges of automatic industrial doors and elevators
- · Monitoring the swing range of automatic gates
- · Detecting and tracking objects in material handling

Dimensions



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General specifications				
Effective detection range		0 12 m		
Reflector distance		0.04 12 m		
Threshold detection range		14 m		
Reference target		H85-2 reflector		
Light source		LED		
Light type		modulated visible red light , 640 nm		
Diameter of the light spot		approx. 35 mm at a distance of 12 m		
Opening angle		±1°		
Ambient light limit		90000 Lux		
Functional safety related parameters				
MTTF _d		1460 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Function indicator		LED red illuminates: when beam is free flashes: when level falls below function reserve off: when beam is interrupted		
Electrical specifications				
Operating voltage	U_B	24 230 V AC/DC		
Ripple		10 %		
No-load supply current	I_0	≤ 8.5 mA		

Technical Data

Power consumption

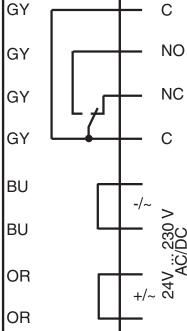
Switching type

Output

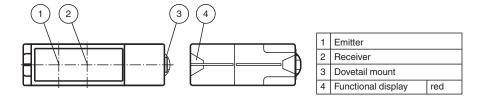
 P_0

dark-on

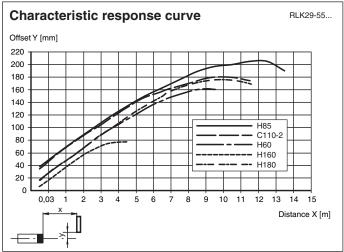
0.2 W at 24 V DC, 1.8 W at 230 V AC 3 VA

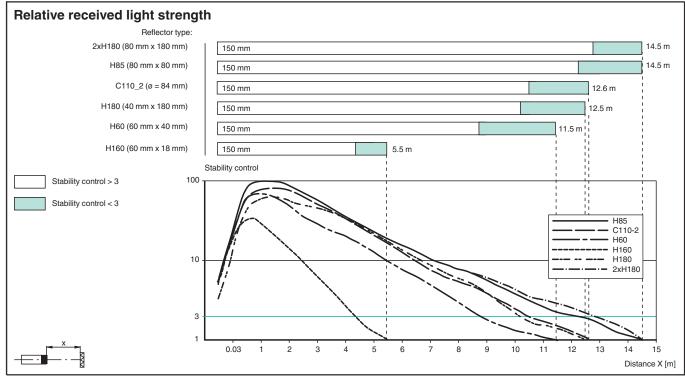


Assembly



Characteristic Curve





Accessories OMH-RLK29 Mounting bracket OMH-RLK29-HW Mounting bracket for rear wall mounting OMH-RLK29-HW-120 Mounting bracket for rear wall mounting **OMH-21** Mounting bracket: mounting aid for sensors in the RL* series OFR-100/100 Reflective tape 100 mm x 100 mm REF-C110-2 Reflector, round ø 84 mm, central mounting hole REF-H180 Reflector, rectangular 182 mm x 42 mm, mounting holes REF-H160 Reflector, rectangular 60 mm x 18 mm, mounting holes REF-H85-2 Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes REF-H60-2 Reflector with mounting holes REF-H50 Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap

