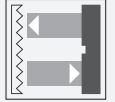




Retroreflective sensor RL29-55/25/73c/136

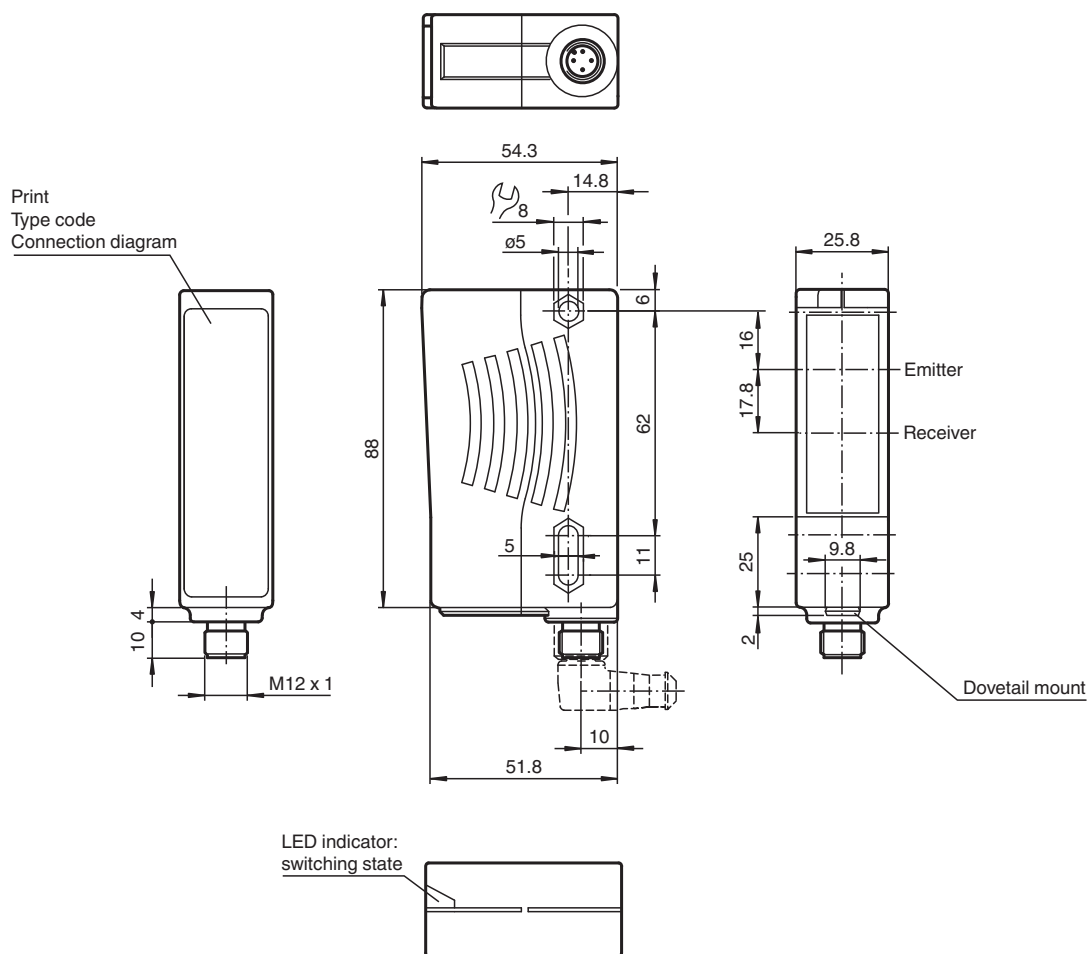


- Highly visible LED
- Powerful push-pull output
- Optimal price/power ratio
- Protection class II

Retroreflective sensor with polarization filter



Dimensions



Technical Data

General specifications

Effective detection range	0.1 ... 7 m
Threshold detection range	10 m
Reference target	H85 reflector
Light source	LED, 660 nm
Light type	modulated visible red light
Polarization filter	yes
Diameter of the light spot	approx. 150 mm at a distance of 7 m
Opening angle	Emitter: 1.2 °, Receiver: 2 °
Ambient light limit	80000 Lux

Functional safety related parameters

MTTF _d	1982.2 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function indicator	LED yellow, light with free light beam, flashes when falling short of the operating reserve
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Electrical specifications

Operating voltage	U _B	10 ... 30 V DC, class 2
Ripple		10 %
No-load supply current	I ₀	≤ 30 mA

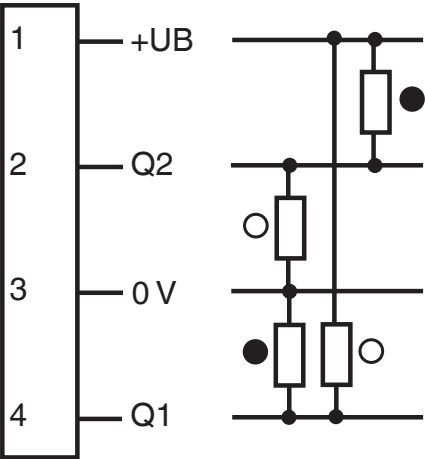
Output

Technical Data

Switching type	light-on
Signal output	2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected
Switching voltage	max. 30 V DC
Switching current	max. 100 mA
Switching frequency	f 500 Hz
Response time	1 ms
Conformity	
Product standard	EN 60947-5-2
Approvals and certificates	
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)
Ambient conditions	
Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-40 ... 75 °C (-40 ... 167 °F)
Mechanical specifications	
Degree of protection	IP65
Connection	Plastic connector M12 x 1, 4-pin
Material	
Housing	Plastic ABS
Optical face	plastic
Mass	70 g
Dimensions	
Height	88 mm
Width	25.8 mm
Depth	54.3 mm

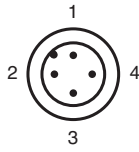
Connection Assignment

Option:



○ = Light on
● = Dark on

Connection Assignment

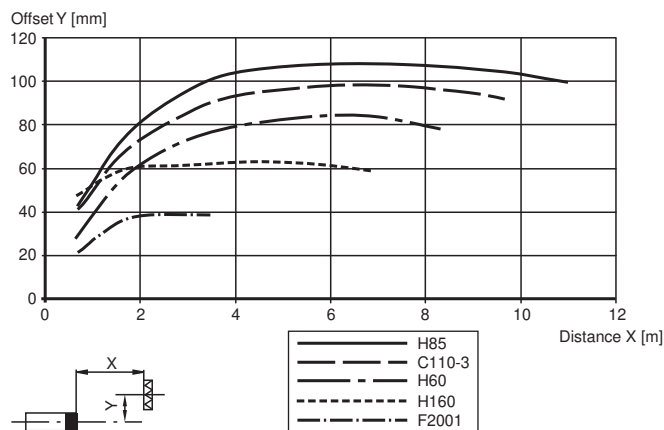


Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Characteristic Curve

Characteristic response curve



Relative received light strength

Reflector type:

