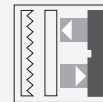




Retroreflective sensor

RL29-55-V/115b/136

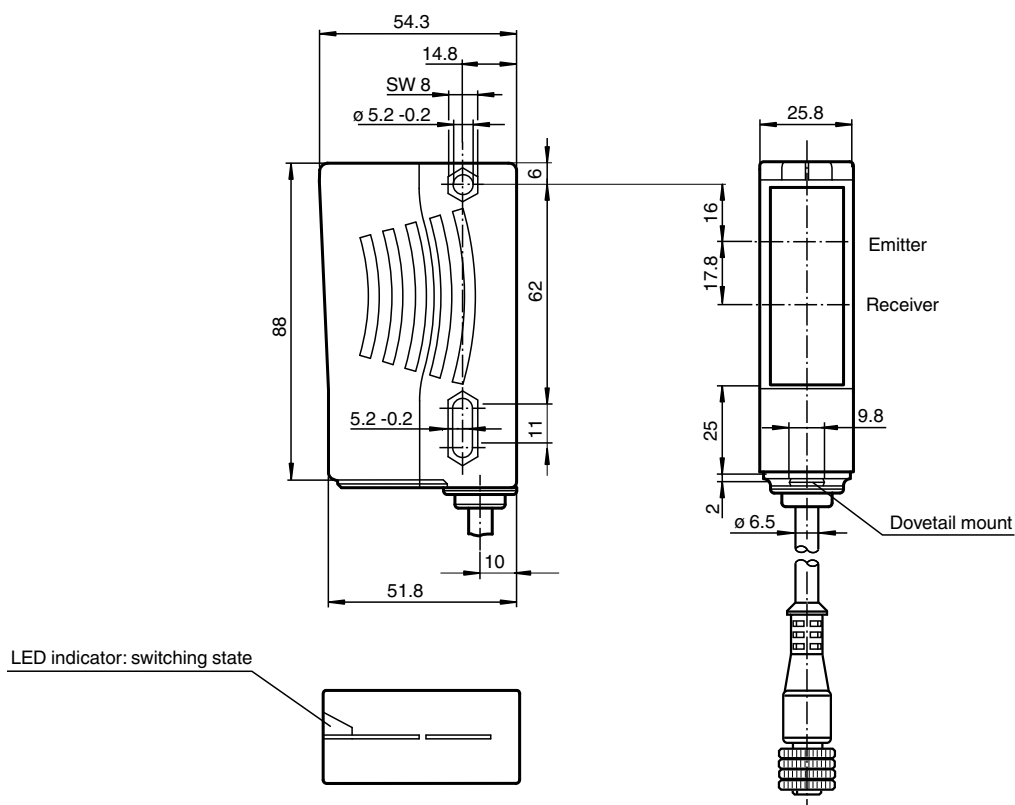
- Foreground suppression, suited to recording of sheet-shrink-wrapped objects
- Highly visible LED
- Powerful push-pull output
- Optimal price/power ratio



Retroreflective sensor with polarization filter



Dimensions



Technical Data

General specifications

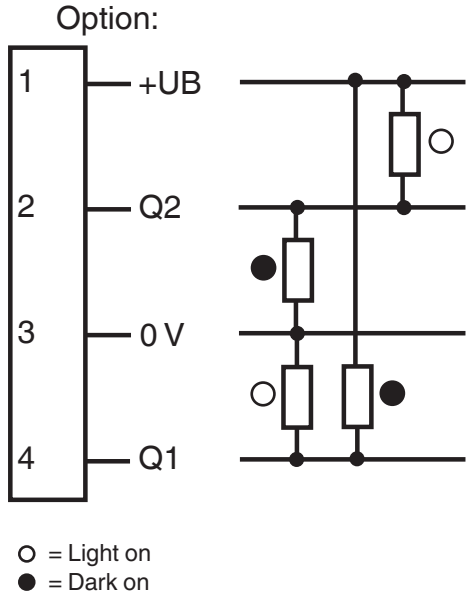
Effective detection range	0.4 ... 6 m
Threshold detection range	8 m

Technical Data

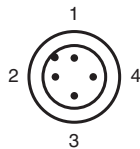
Reference target	H85 reflector	
Light source		LED, 660 nm
Light type	modulated visible red light	
Polarization filter		yes
Diameter of the light spot	approx. 130 mm at a distance of 6 m	
Opening angle		Emitter: 1.2 ° , Receiver: 2 °
Ambient light limit	80000 Lux	
Functional safety related parameters		
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 stability control	
Electrical specifications		
Operating voltage	U _B	10 ... 30 V DC , class 2
Ripple		10 %
No-load supply current	I ₀	≤ 30 mA
Output		
Switching type	dark-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		
EAC conformity		TR CU 020/2011
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		
Housing width		25.8 mm
Housing height	88 mm	
Housing depth		54.3 mm
Degree of protection	IP65	
Connection	0.2 m fixed cable with 4-pin, M12 connector	
Material		
Housing		Plastic ABS
Optical face	plastic	
Mass		90 g

Release date: 2022-03-30 Date of issue: 2022-03-30 Filename: 199414_eng.pdf

Connection Assignment



Connection Assignment

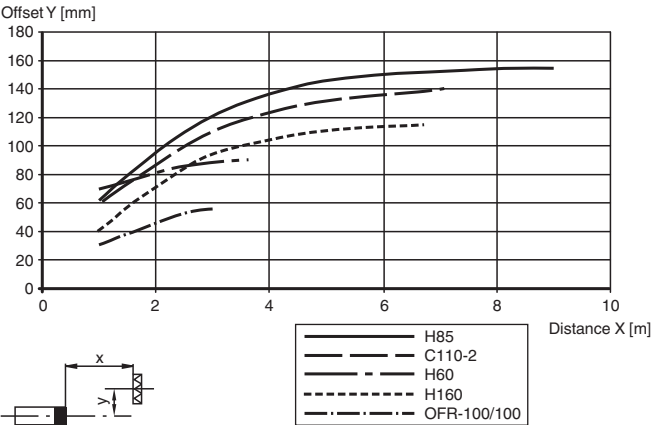


Wire colors in accordance with EN 60947-5-2

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

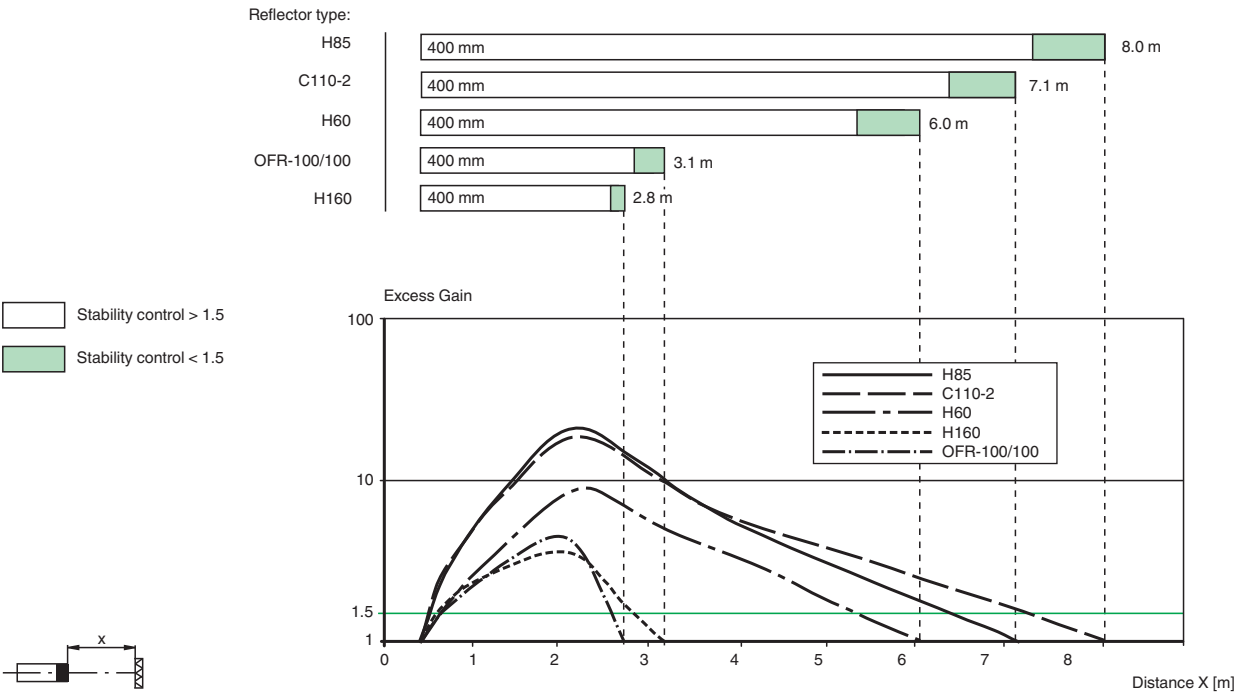
Characteristic Curve

Characteristic response curve



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Excess Gain vs. Sensing Range



Accessories

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