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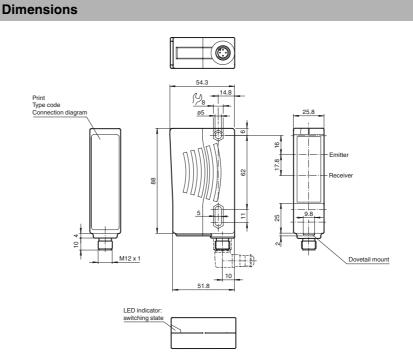
# **Model Number**

# RL29-55-V/25/73c/136

Retroreflective sensor with 4-pin, M12 x 1 plastic connector

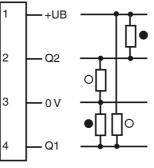
### **Features**

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

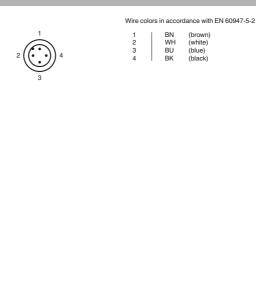


# **Electrical connection**

Option: +UB Q2 С 0 V



**Pinout** 



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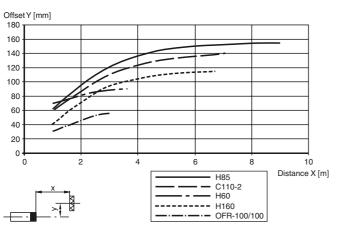
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Technical data			Accessories	
General specifications			OMH-05	
Effective detection range		0.4 6 m	Mounting aid for round steel ø 12 mm or	
Threshold detection range		8 m	sheet 1.5 mm 3 mm	
Reference target		H85 reflector		
Light source		LED, 660 nm	ОМН-07	
Light type		modulated visible red light	Mounting aid for round steel ø 12 mm or	
Polarization filter		yes	sheet 1.5 mm 3 mm	
Diameter of the light spot		approx. 130 mm at a distance of 6 m		
Angle of divergence		Emitter: 1.2 °, Receiver: 2 °	OMH-21	
Ambient light limit		80000 Lux	Mounting bracket	
Functional safety related parameters				
MTTF <sub>d</sub>		1982.2 a	OMH-22 Mounting bracket	
Mission Time (T <sub>M</sub> )		20 a		
Diagnostic Coverage (DC)		0 %	OMH-MLV11-K	
Indicators/operating means			•	
Function indicator		LED yellow, light with free light beam , flashes when falling short	dove tail mounting clamp	
		of the stability control	OMH-RLK29-HW	
Electrical specifications			Mounting bracket for rear wall mounting	
Operating voltage	UB	10 30 V DC , class 2	Mounting bracket for real wait mounting	
Ripple		10 %	OMH-RL28-C Weld slag cover model	
No-load supply current	I <sub>0</sub>	≤ 30 mA		
Output				
Switching type		light on	V1-G-2M-PUR	
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected	Female cordset, M12, 4-pin, PUR cable	
Switching voltage		max. 30 V DC	V1-W-2M-PUR	
Switching current		max. 100 mA	Female cordset, M12, 4-pin, PUR cable	
Switching frequency	f	500 Hz	Quitable reflectors and eable conjuste can be	
Response time		1 ms	Suitable reflectors and cable sockets can be found in the Internet	
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		Plastic connector M12 x 1, 4-pin		
Material				
Housing		Plastic ABS		
Optical face		plastic		
Mass		70 g		
Compliance with standards ar directives	nd			
Directive conformity				
EMC Directive 2004/108/EC		EN 60947-5-2:2007		
Approvals and certificates				
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure		
CCC approval		CCC approval / marking not required for products rated ${\leq}36$ V		
Approvals		CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply: Type 1 enclosure)		

#### **Curves/Diagrams**

# Characteristic response curve



power supply; Type 1 enclosure)

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

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