



Model Number

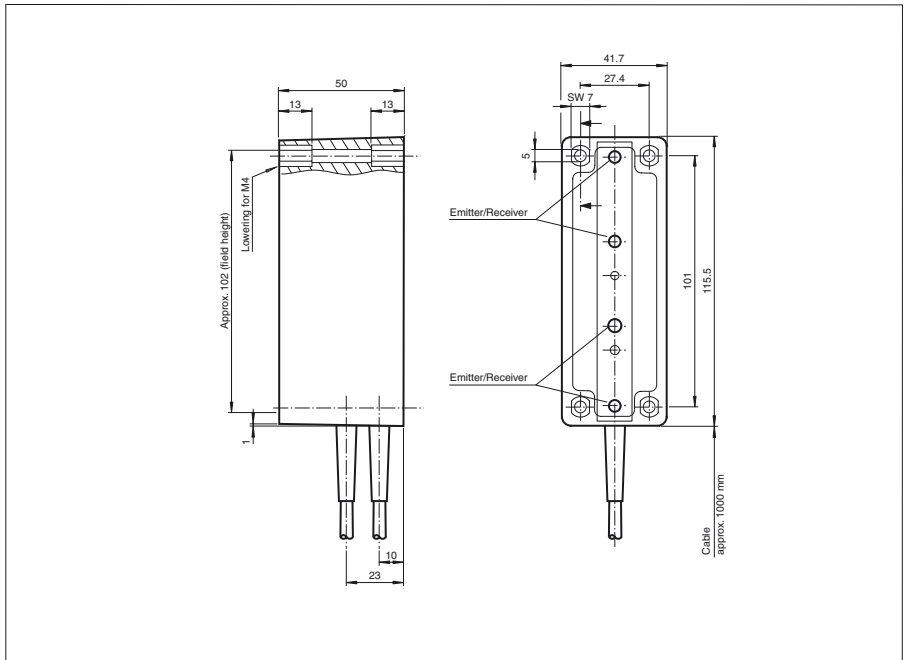
PR4-150-K-2-F-S

Light grid
with fixed cable 2.5 m or with 7-pin connector

Features

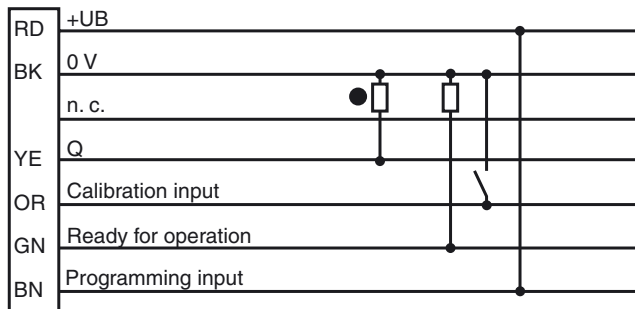
- Sensing range up to 1500 mm
- High-resolution light grid
- Suited for recording of transparent objects
- Light grid with 4 beams, crossed or parallel
- Smallest obstacle size 15 mm
- Automatic switching threshold adaptation eliminates soiling effects

Dimensions

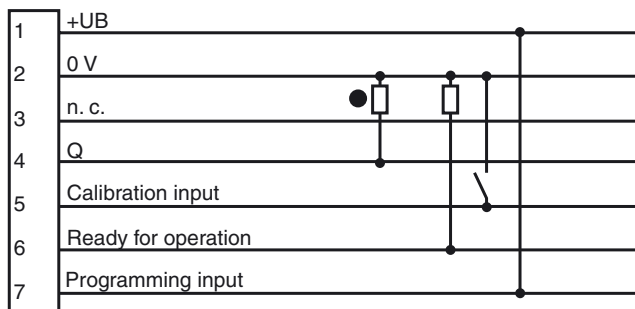


Electrical connection

Cable version



Connector version



○ = Light on
● = Dark on

Release date: 2011-02-11 11:52 Date of issue: 2011-02-11 417969_ENG.xml

Technical data**General specifications**

Effective detection range	500 ... 1500 mm
Threshold detection range	1500 mm
Sensing range	0 ... 1500 mm
Light source	IRED
Light type	modulated infrared light
Approvals	CE
Field height	102 mm
Target size	15 mm
Beam spacing	33 mm
Number of beams	4
Angle of divergence	$\pm 8^\circ$
Ambient light limit	20000 Lux

Indicators/operating means

Function display	LED yellow, functional readiness, LED red, switching state, lights up when the beam field is interrupted
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Electrical specifications

Operating voltage	U_B	24 ... 28 V DC
Ripple		5 %

Input

Function input	Calibration input > 10 ms, ground active, fixed saving the switching threshold
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Output

Switching type	dark on	
Signal output	1 PNP, short-circuit protected, open collector	
Switching voltage	max. 28 V DC	
Switching current	100 mA	
Switching frequency	f	100 Hz
Response time		2 ms

Standard conformity

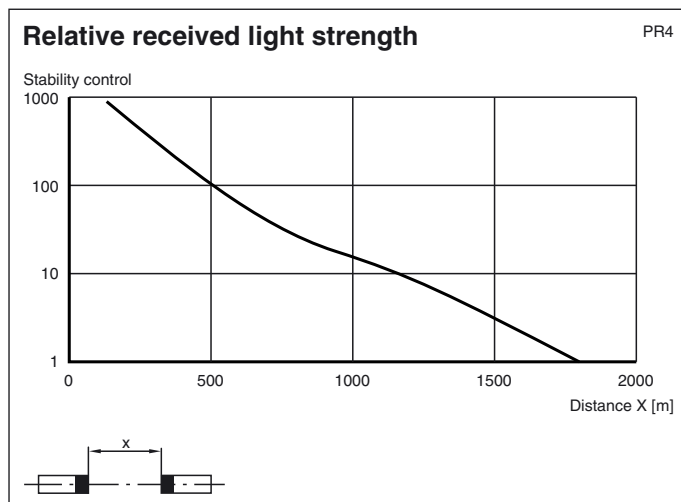
Standards	EN 60947-5-2
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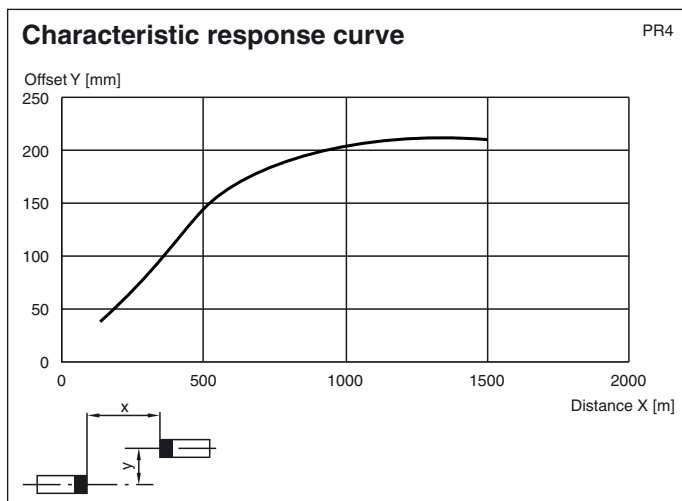
Ambient conditions

Ambient temperature	-15 ... 50 °C (5 ... 122 °F)
Storage temperature	-20 ... 75 °C (-4 ... 167 °F)

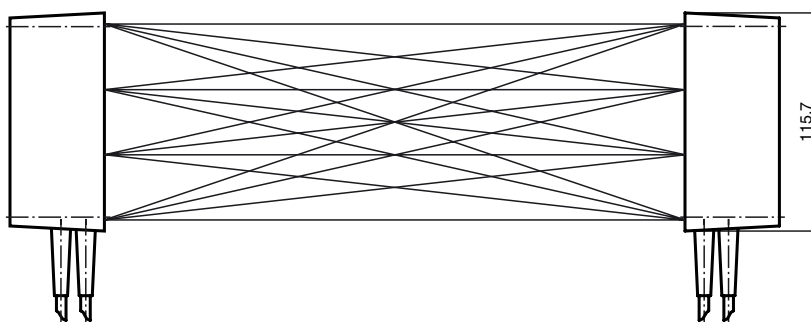
Mechanical specifications

Protection degree	IP67
Connection	7-pin, M8 x 1 connector
Material	
Housing	ABS
Optical face	PMMA
Mass	120 g (device)

Curves/Diagrams



Course of the beams



Accessories

Model number

Cable connector for light grid PR:V18-PR-ASK-VIS

Interconnecting cable for light grid PR:V18-PR-Verb-VIS