



Model Number

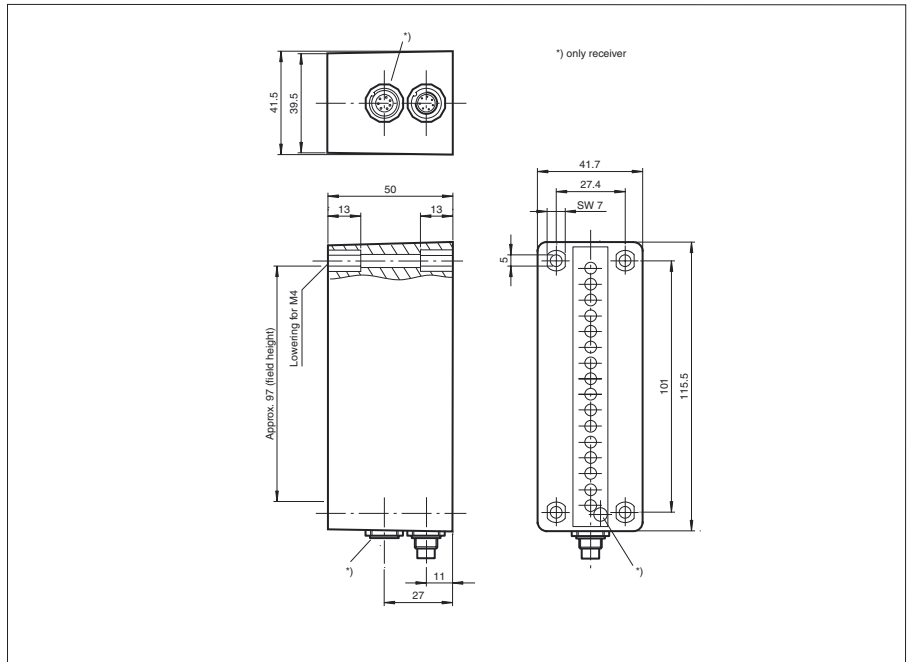
PR16A-150-K-2-F-S

Light grid
with 7-pin M8 connector

Features

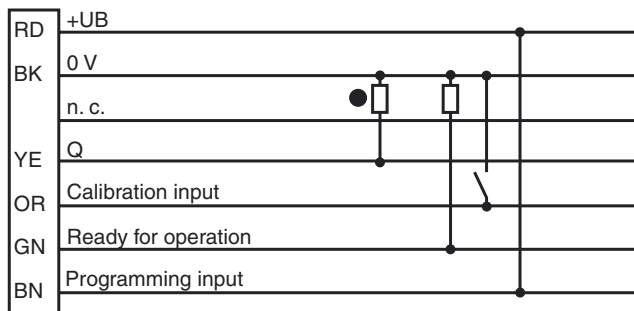
- High-resolution light grid
- Light grid with 16 beams, crossed
- Suited for recording of transparent objects
- Automatic switching threshold adaptation eliminates soiling effects
- Smallest obstacle size 1 mm

Dimensions

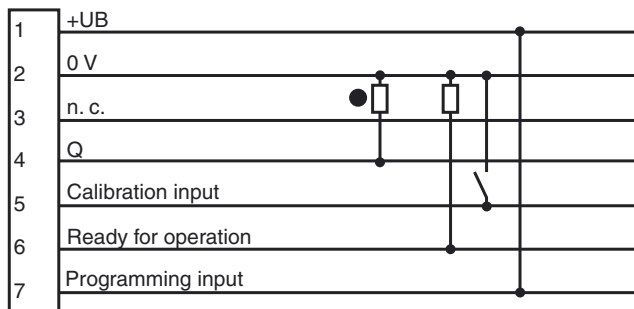


Electrical connection

Cable version



Connector version



○ = Light on
● = Dark on

Release date: 2013-10-11 13:47 Date of issue: 2013-10-23 129520_eng.xml

Technical data**General specifications**

Effective detection range	500 ... 1500 mm
Threshold detection range	1500 mm
Sensing range	0 ... 1500 mm
Light source	IREL
Light type	modulated infrared light
Field height	97 mm
Target size	1 mm
Beam spacing	6.5 mm
Number of beams	16
Angle of divergence	$\pm 8^\circ$
Ambient light limit	20000 Lux
Resolution	1 mm , crossed

Indicators/operating means

Function indicator	LED yellow, functional readiness, LED red, switching state, lights up when the beam field is interrupted
--------------------	--

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
----------------	--

Output

Switching type	dark on	
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage	max. 28 V DC	
Switching current	100 mA	
Switching frequency	f	20 Hz
Response time	5 ms	

Standard conformity

Standards	EN 60947-5-2
-----------	--------------

Ambient conditions

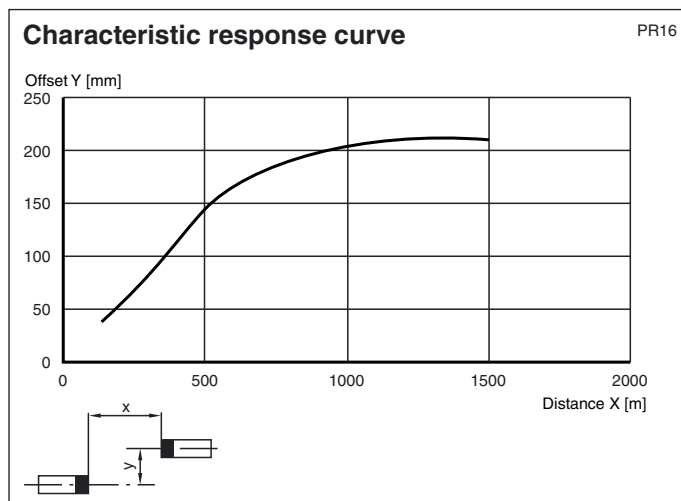
Ambient temperature	-10 ... 50 °C (14 ... 122 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)

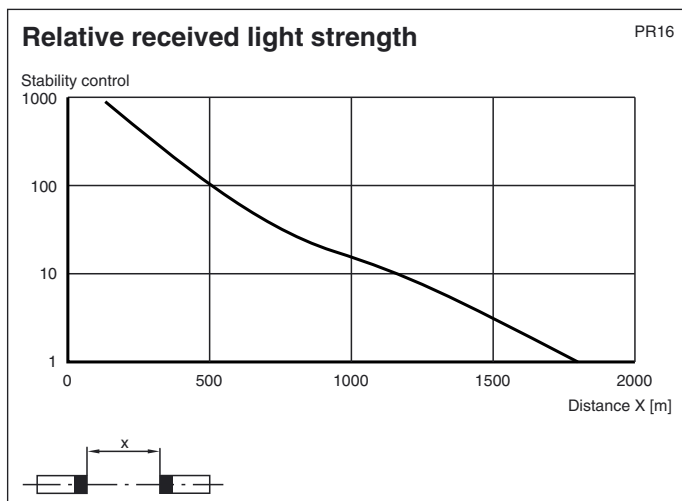
Mechanical specifications

Protection degree	IP65
Connection	7-pin, M8 x 1 connector
Material	
Housing	ABS
Optical face	PMMA
Mass	Emitter: 130 g , Receiver: 160 g

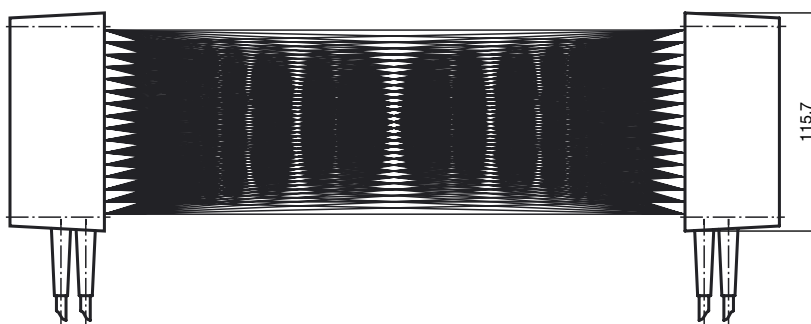
Approvals and certificates

Approvals	CE
-----------	----

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