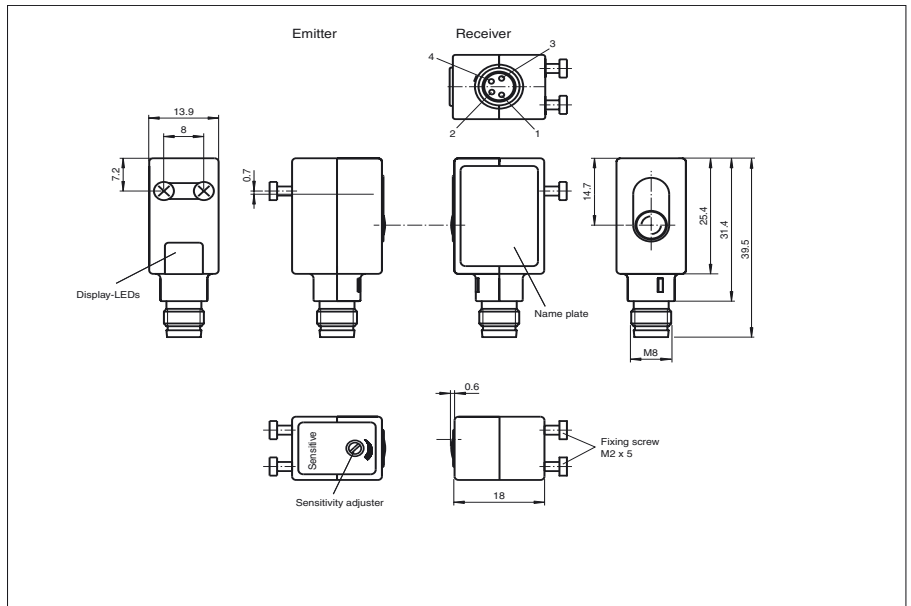




**Dimensions**



**Model Number**

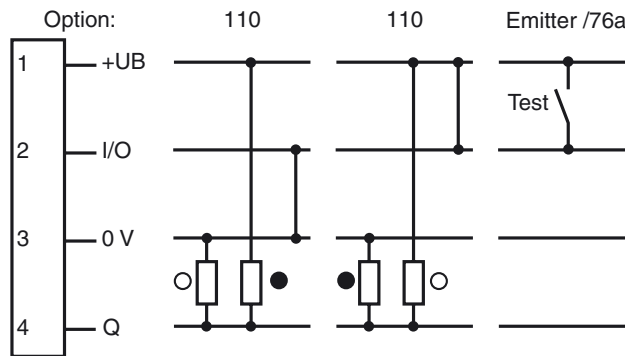
**M4.1/MV4.1/40b/95/110**

Thru-beam sensor  
with M8, 4-pin metal connector

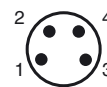
**Features**

- Miniature design
- Test input
- Powerful push-pull output
- sensitivity adjuster
- Visible red light
- Not sensitive to ambient light, even with switched energy saving lamps

**Electrical connection**



**Pinning according**



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Additional accessories can be found in the Internet.

Subject to reasonable modifications due to technical advances.

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## Technical data

### General specifications

Effective detection range	0 ... 2500 mm
Threshold detection range	5000 mm
Light source	LED
Approvals	CE, cULus
Obstacle size	9 mm
Light type	red, modulated light
Diameter of the light spot	260 mm at 2500 mm detection range
Angle of divergence	Emitter 5° receiver 15 °
Ambient light limit	40000 Lux

### Indicators/operating means

Operating display	LED, green
Function display	LED yellow, lights up with receiver lit flashes when falling short of the stability control
Operating elements	sensitivity adjuster

### Electrical specifications

Operating voltage	10 ... 30 V DC
Ripple	< 10 %
No-load supply current	$I_0$ < 25 mA (device)

### Input

Test input	Input emitter deactivation at $U_E=10 \dots 30 \text{ V}$
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### Output

Switching type	Light/dark on selectable electrically switchable
Signal output	Push-pull output, short-circuit proof, protected against reverse polarity
Switching voltage	max. 30 V DC
Switching current	max. 200 mA
Switching frequency	$f$ 500 Hz
Response time	1 ms

### Standard conformity

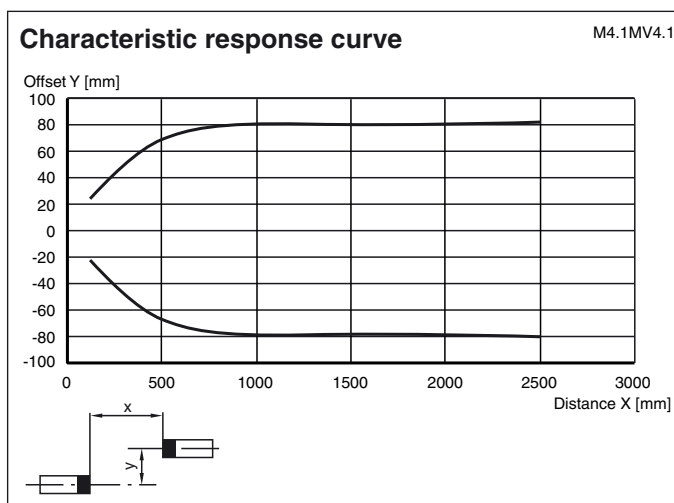
Standards	EN 60947-5-2
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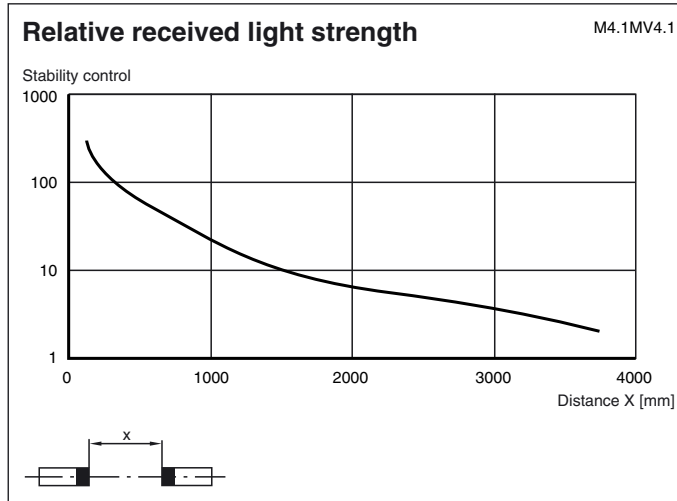
### Ambient conditions

Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 75 °C (253 ... 348 K)

### Mechanical specifications

Protection degree	IP65
Connection	M8 connector, 4-pin
Material	
Housing	ABS
Optical face	glass
Mass	15 g (device)





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