



SH/TH

SH4/E-0EIA

Safety, M18, Emitter, M12 plug, Type 4
PHOTOCELLS TYPE 2 AND TYPE 4

OVERVIEW

- M18 Models 10 m (axial optic) and 5 m (radial optic) operating distance
- M30 models 60 m operating distance
- EN50100 Category 2 and Category 4 compliant
- LED indicators
- Plastic and Metal Housing
- Inputs and Outputs IEC61131-2 compliant and adaptable with any safety module
- To be used together with a Category 2 or Category 4 safety control unit to obtain a safety system EN ISO 13849 compliant



TECHNICAL FEATURES

Detection properties

Nominal sensing distance 10m (ExG=4)

Thermal drift of Sr $\leq 10\%$

Resolution Single-beam

controlled height Single-beam

Effective Aperture Angle	Typical $\pm 1,8^\circ$
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Application

Function Principle	Emitter
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Control unit to be used	SBCR03
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Description	M18 Type 4 Safety Photocell Emitter
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Safety parameters

Type	Type 4 safety photocell
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SIL	3
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SILCL	3
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PL	e
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MTTFd	20 years
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Electrical data

Operating Voltage	10 ... 30 Vdc
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No-Load supply current	$\leq 25\text{mA}$
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Max ripple content	$\leq 5\text{ Vpp}$
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LED indicators	Yellow (power)
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Emission	Red
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Test levels	<5V emission active >15V emission inactive
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Mechanical data

Dimensions	M18
Housing material	PBT
Connections	M12 plug
Active Head Material	Glass
Operating temperature	-20°C ... +55°C
Storage temperature	-40°C ... +75°C
Humidity	15% ... 95%

Test/Approvals

Approvals	CE, TÜV
Shocks and vibrations	10g - 16ms (according to IEC600068-2-29) 10Hz...55Hz - 1 oct/min - 0,35mm (according to 60068-2-6)
Degree of protection	IP67

Accessories

Supplied Accessories	2 x nuts
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Generical Data

Dimensions	M18
Operating Temperature	-20...+55°C (Without freeze)
Humidity	15% ... 95%
Mechanical Protection	IP67

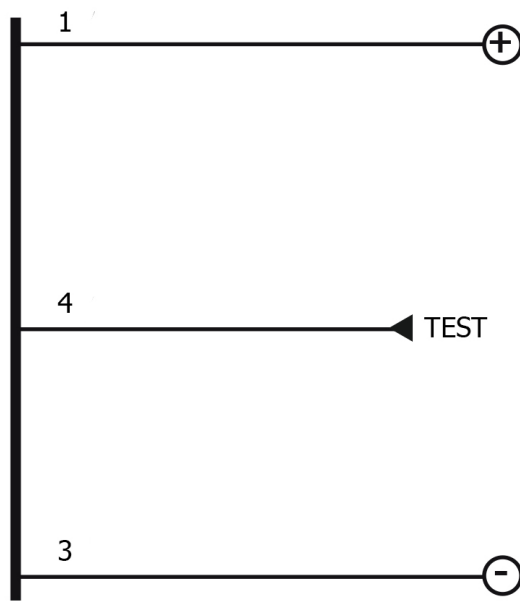
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8,10E-10

CONNECTIONS

Electrical diagram



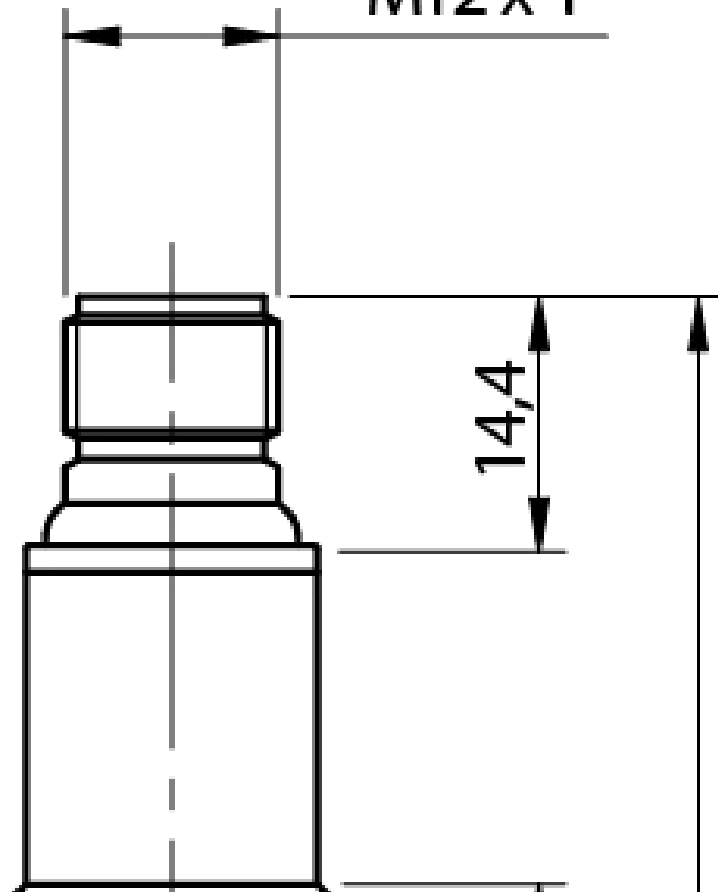
Connector

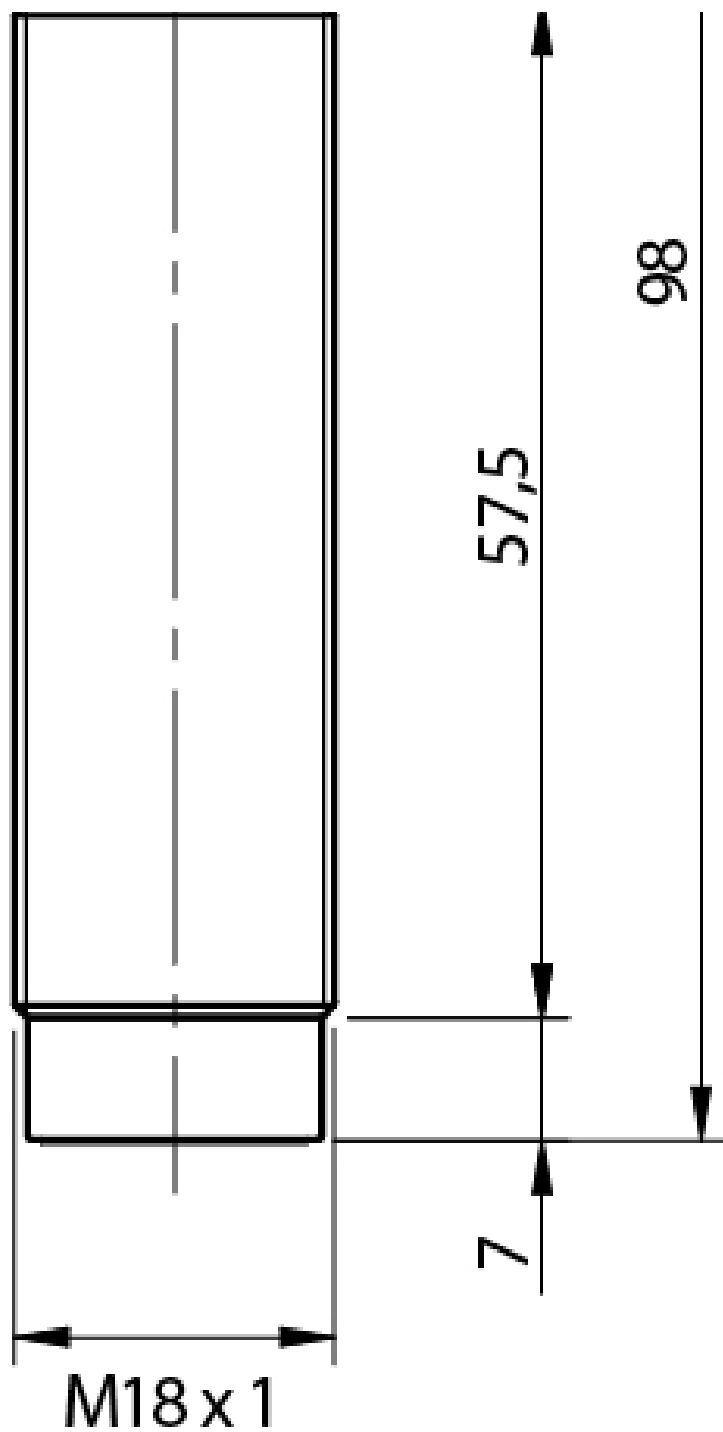


OTHERS

Dimensions

M12 x 1





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