



SH/TH

SH4/R-1EIA

Safety, M18, Receiver, 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	≤ 10%
Resolution	Single-beam
controlled height	Single-beam

Effective Aperture Angle	Typical ±1,8°
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Application

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

Safety parameters

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

Outputs

Output type	Totem-pole
Output Function	To be connectred to SBCR03
Resposnse time for light/dark transition	200µs
Resposnse time for dark/light transition	400µs

Electrical data

Operating Voltage	10 ... 30 Vdc
No-Load supply current	≤ 25mA

Load current	≤ 70mA
Output voltage drop	2,5V @ 50mA
Max ripple content	≤ 5 Vpp
LED indicators	Yellow (alignement)

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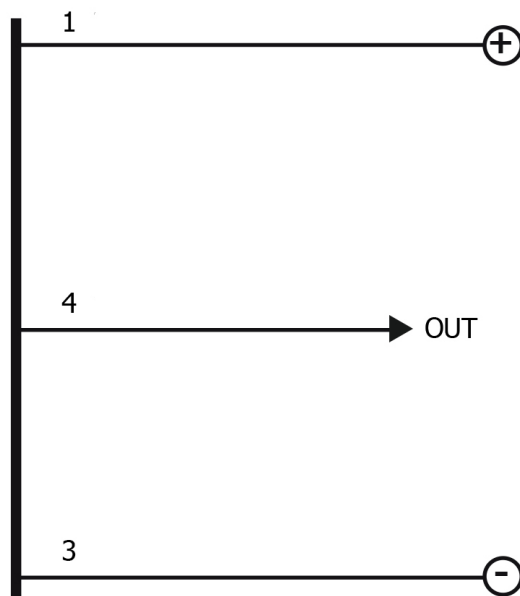
Mechanical Protection	IP67
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UNASSIGNED

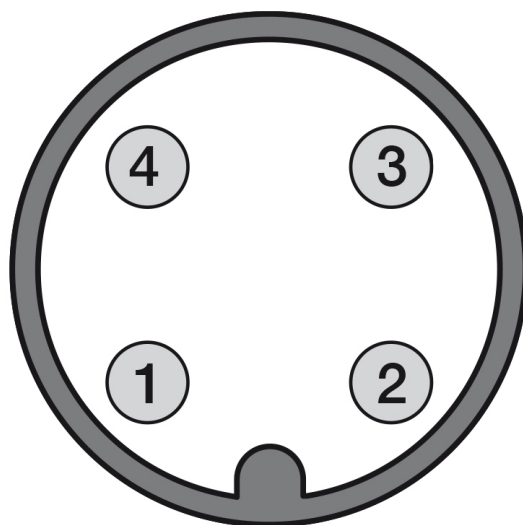
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CONNECTIONS

Eletrical diagram



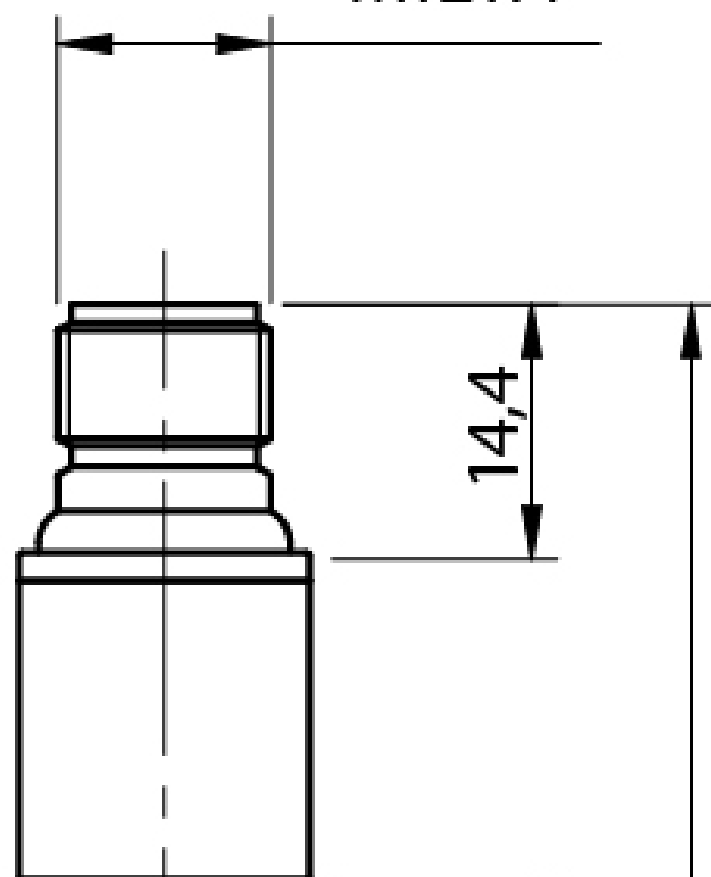
Connector

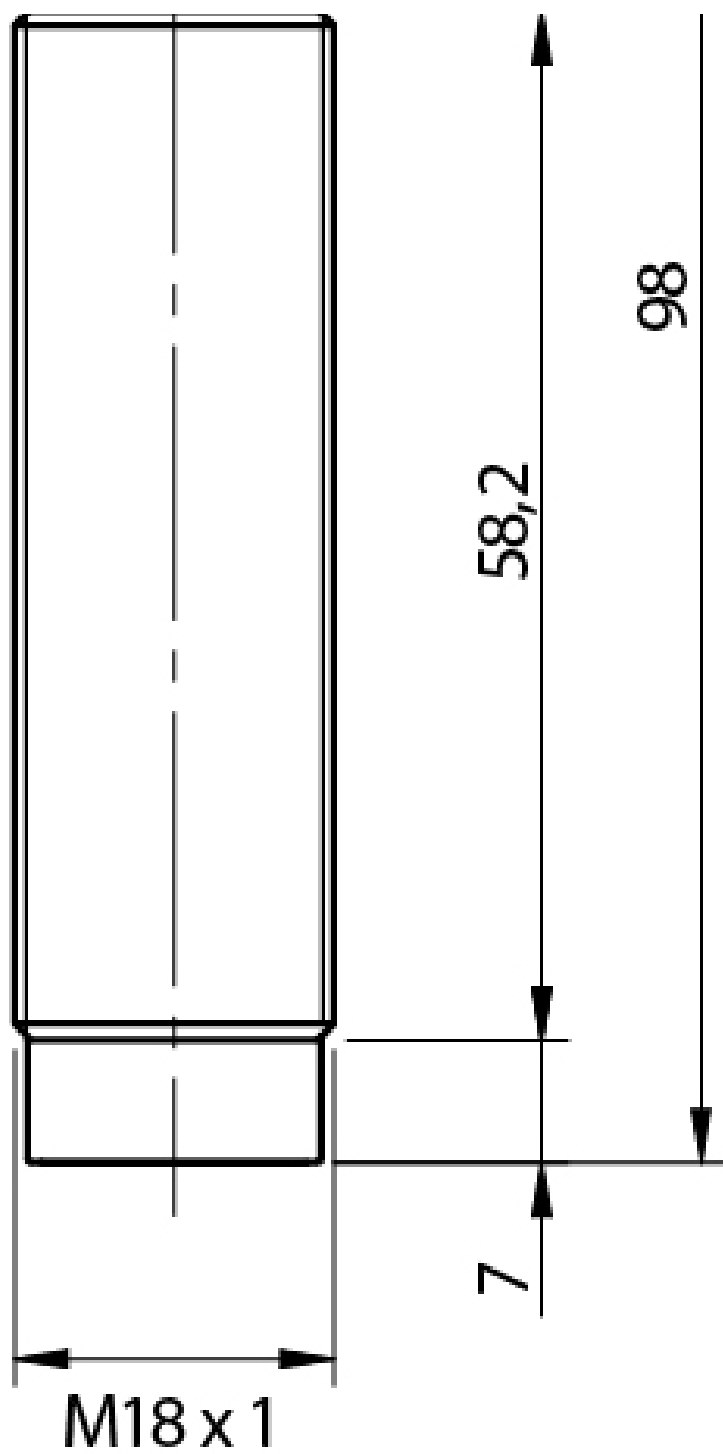


OTHERS

Dimensions

M12 x 1





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