



# SH/TH

## SH4/R-0EIC

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	$\leq \pm 2,5^{\circ}$
Effective Aperture Angle	Typical $\pm 1,8^{\circ}$

Application

Function Principle	Receiver
Notes	not working with SBCR03 control unit. To be used with external safety control unit with automatic optics test function
Description	M18 Type 4 Safety Photocell Receiver

Safety parameters

Type	Type 4 safety photocell
SIL	3
SILCL	3
PL	e
PFHd	8,10E-10
MTTFd	20 years

Outputs

Output type	Totem-pole
Resposnse time for light/dark transition	200μs
Resposnse time for dark/light transition	400μs

Electrical data

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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

## Generical Data

Dimensions

M18

Operating Temperature

-20...+55°C (Without freeze)

Humidity

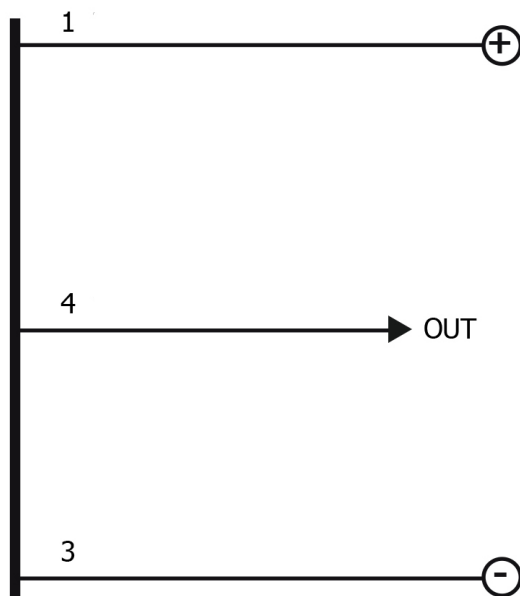
15% ... 95%

Mechanical Protection

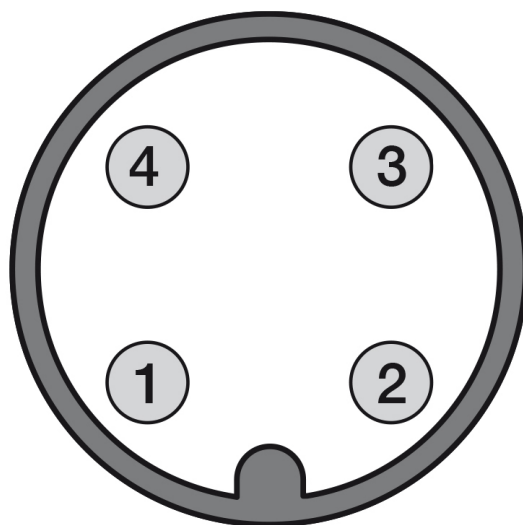
IP67

# CONNECTIONS

Eletrical diagram

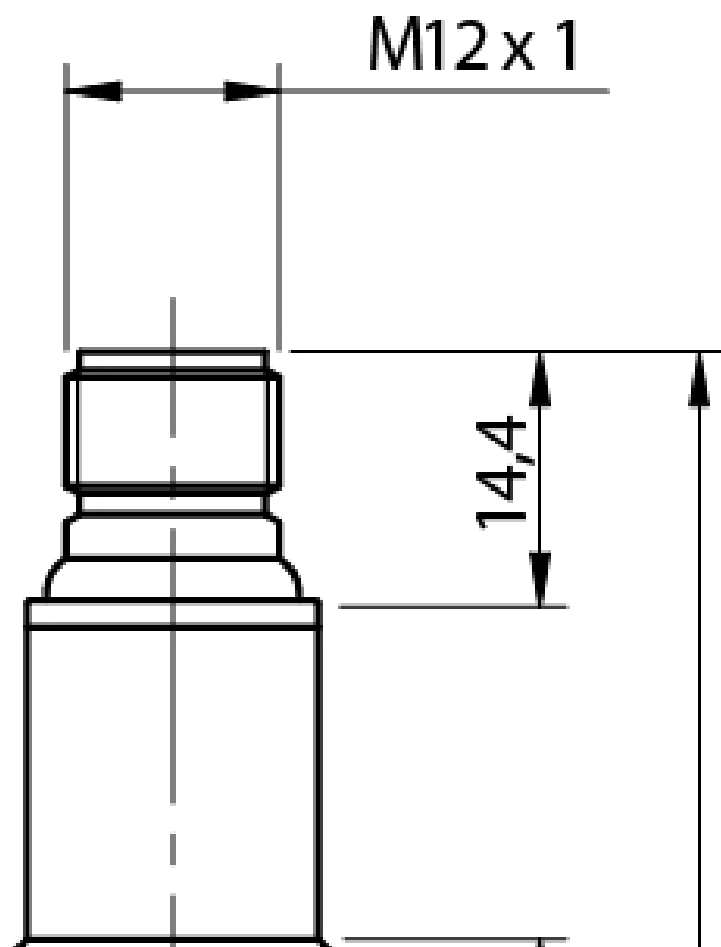


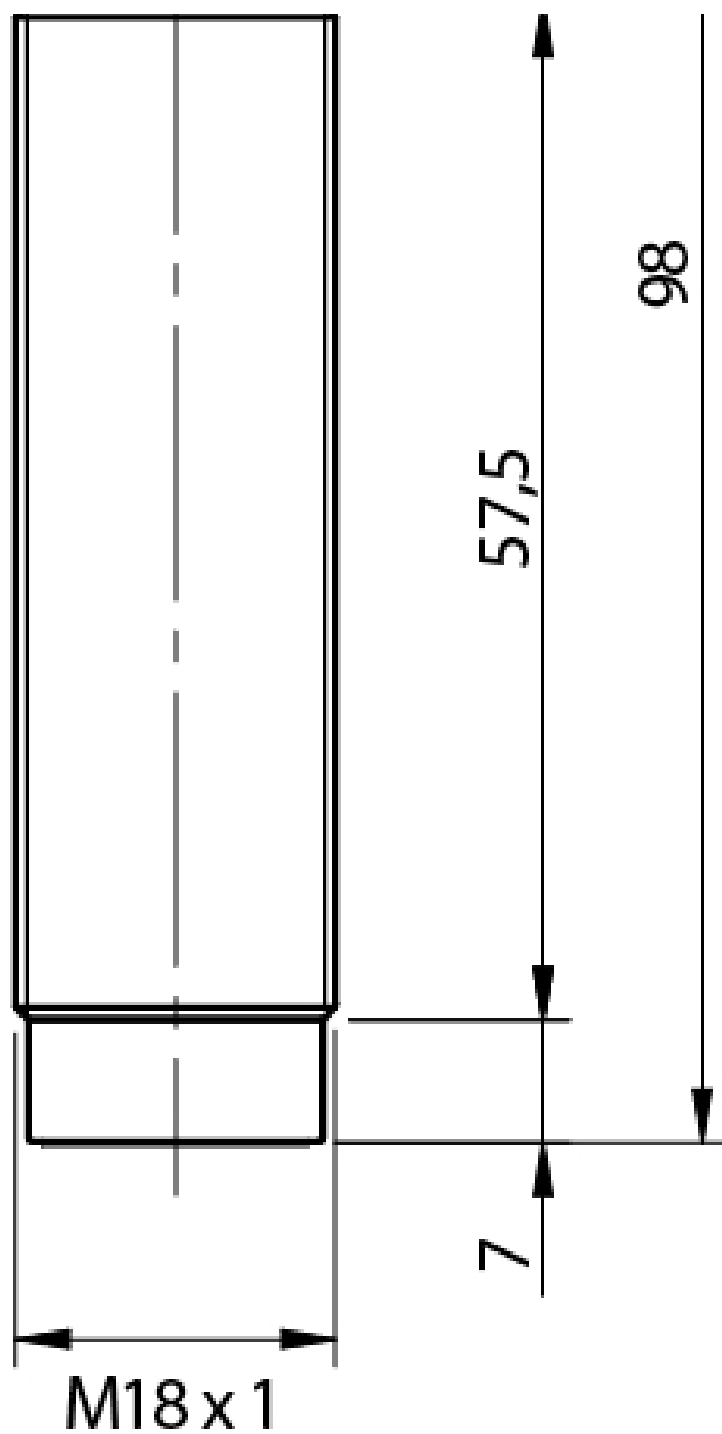
Connector



## OTHERS

Dimensions





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