



SH/TH

SH4/E-0KIA

Safety,M18,Emitter,M12 90°,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)
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Thermal drift of Sr	≤ 10%
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Resolution	Single-beam
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controlled height	Single-beam
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Effective Aperture Angle	Typical ±1,8°
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Application

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

Safety parameters

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

Electrical data

Operating Voltage	10 ... 30 Vdc
No-Load supply current	≤ 25mA
Max ripple content	≤ 5 Vpp
LED indicators	Yellow (power)
Emission	Red
Test levels	<5V emission active >15V emission inactive

Mechanical data

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

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

Supplied Accessories	2 x nuts
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Generical Data

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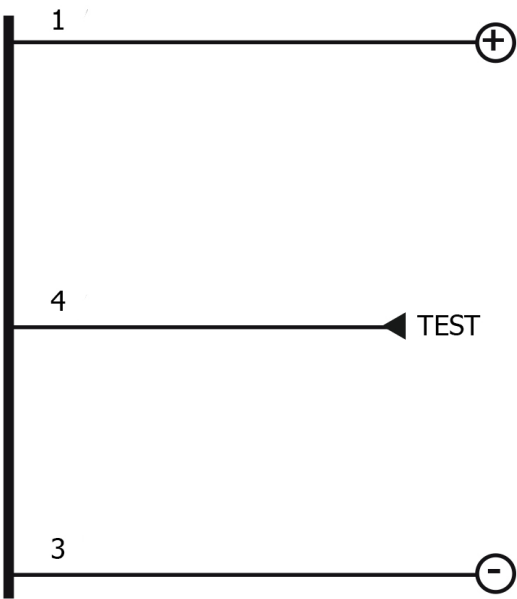
Operating Temperature	-20...+55°C (Without freeze)
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Humidity	15% ... 95%
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Mechanical Protection	IP67
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CONNECTIONS

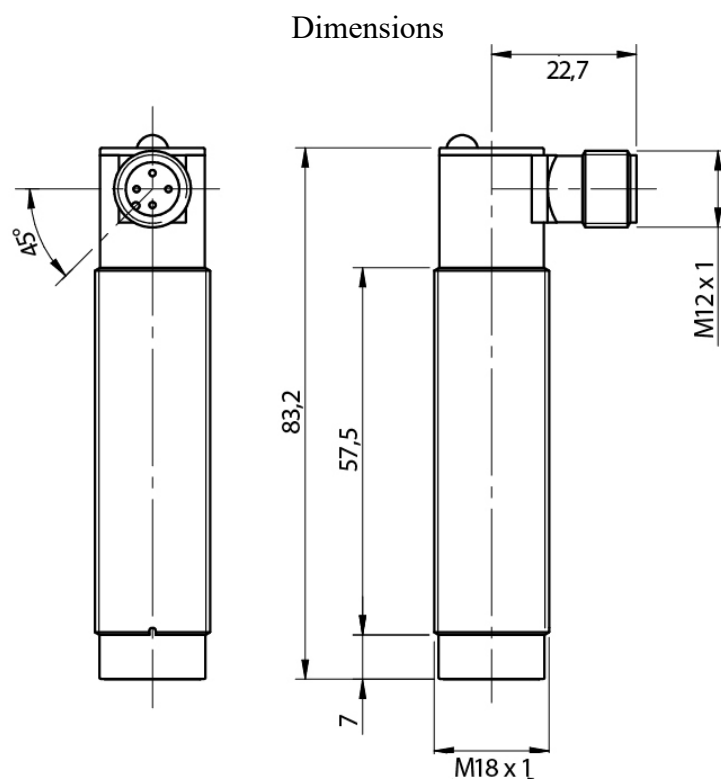
Eletrical diagram



Connector



OTHERS



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