



SH/TH

SH2/R-1KIC

Safety, M18, Receiver, M12 90°, Type 2
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	Receiver
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Notes	not working with SBCR03 control unit. To be used with external safety control unit with automatic optics test function
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Description	M18 Type 2 Safety Photocell Receiver
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Safety parameters

Type	Type 2 safety photocell
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SIL	1
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SILCL	1
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PL	c
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MTTFd	20 years
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Outputs

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

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

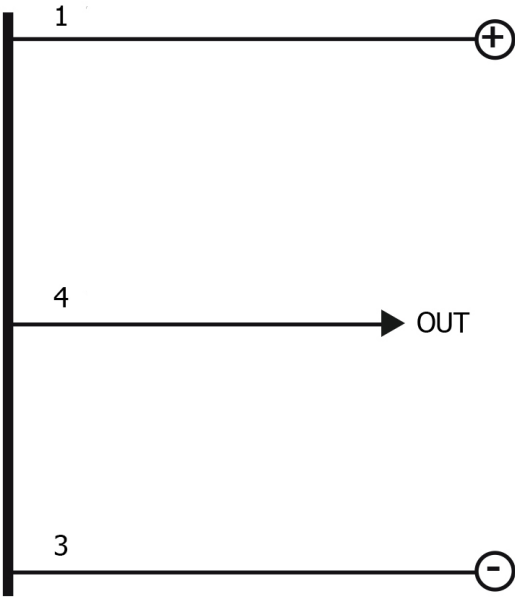
Dimensions	M18
Operating Temperature	-20...+55°C (Without freeze)
Humidity	15% ... 95%
Mechanical Protection	IP67

UNASSIGNED

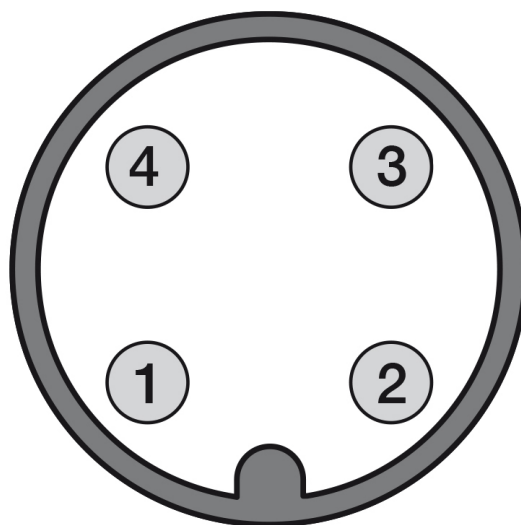
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CONNECTIONS

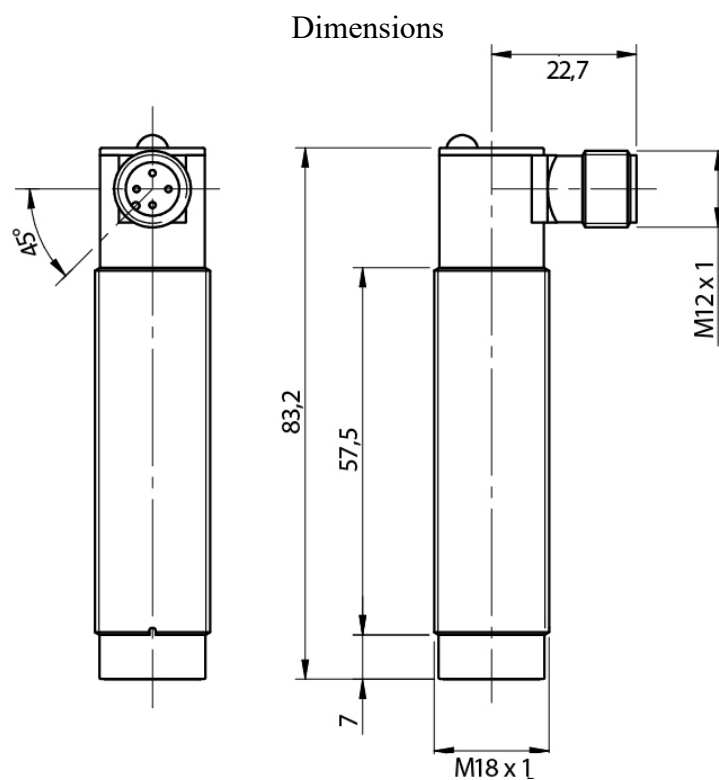
Eletrical diagram



Connector



OTHERS



**Datasensing
S.r.l.**

Strada S.Caterina, 235
41122 Modena (MO)

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Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com