SH2/R-1KIC

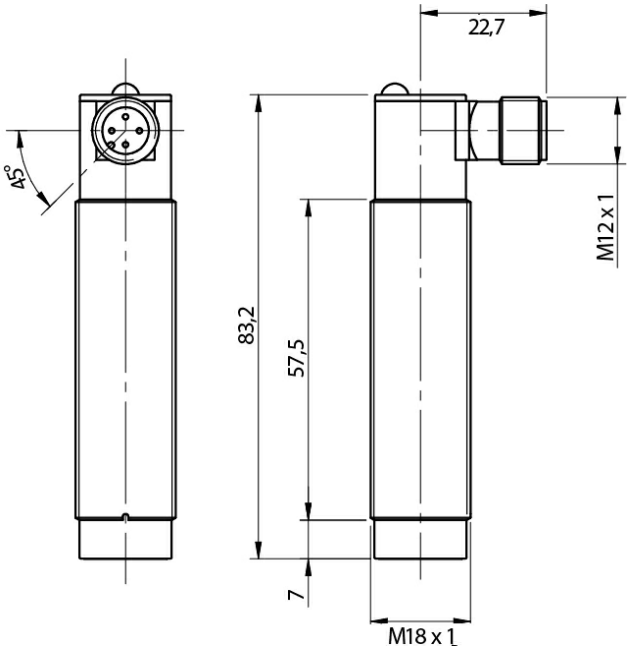
SH/TH



Indicative image

PHOTOCELLS TYPE 2 AND TYPE 4

- 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



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°

Application

Function Principle	Receiver
Notes	not working with SBCR03 control unit. To be used with external safety control unit with automatic optics test function

Safety parameters

Type	2

SIL	1
SILCL	1
PL	c
PFHd	1,00E-06
MTTFd	20

Outputs

Output type	Totem-pole
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

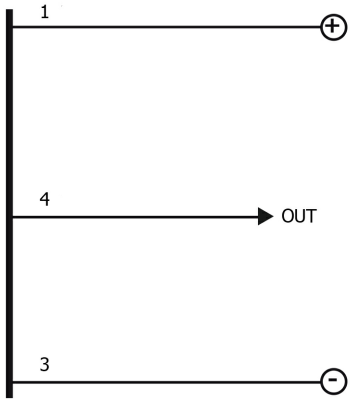
Accessories

Supplied Accessories	2 x nuts

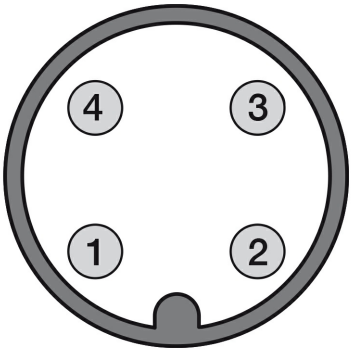
Generical Data

Dimensions	M18
Operating Temperature	-20°C ... +55°C
Humidity	15% ... 95%

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



Datasensing S.r.l.
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail info@datasensing.com

date of printing
29/04/2022 19:00:53