



SH/TH

SH4/E-0EIC

Safety, M18, Emitter, 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 $\leq 10\%$

Resolution Single-beam

controlled height Single-beam

Effective Aperture Angle	Typical $\pm 1,8^\circ$
--------------------------	-------------------------

Application

Function Principle	Emitter
--------------------	---------

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 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	$\leq 25\text{mA}$
------------------------	--------------------

Max ripple content	$\leq 5\text{ Vpp}$
--------------------	---------------------

LED indicators	Yellow (power)
----------------	----------------

Emission	Red
----------	-----

Test levels	<5V emission inactive >15V emission active
-------------	--

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

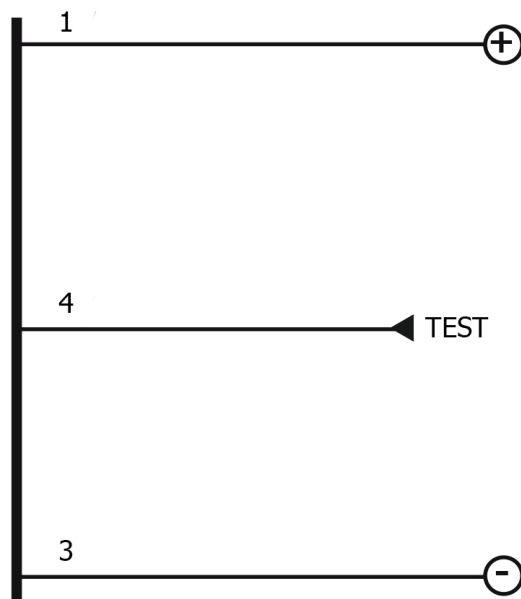
UNASSIGNED

Disegno 2D PDF

8,10E-10

CONNECTIONS

Electrical diagram



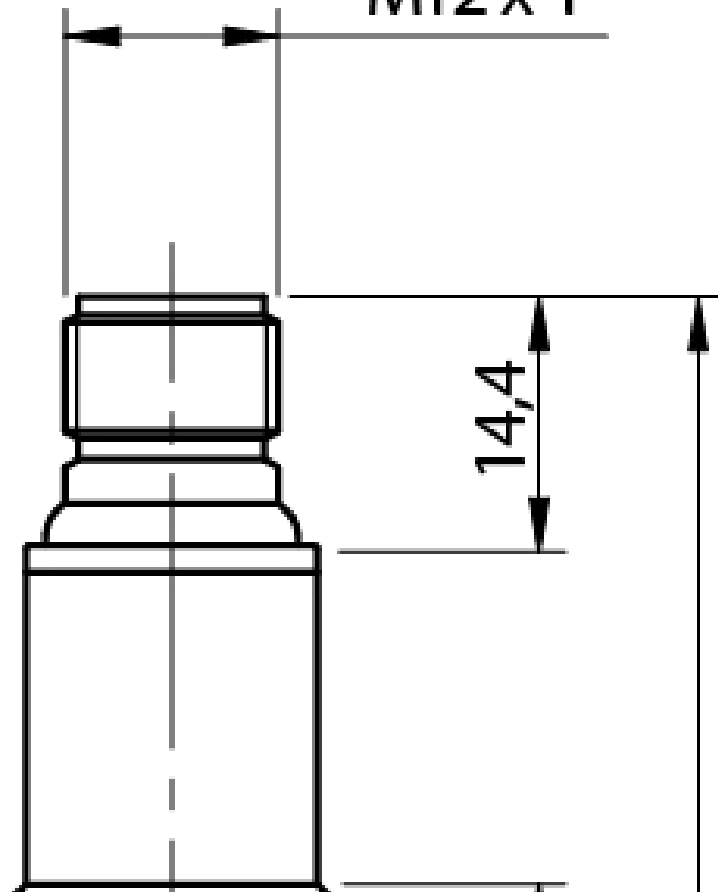
Connector

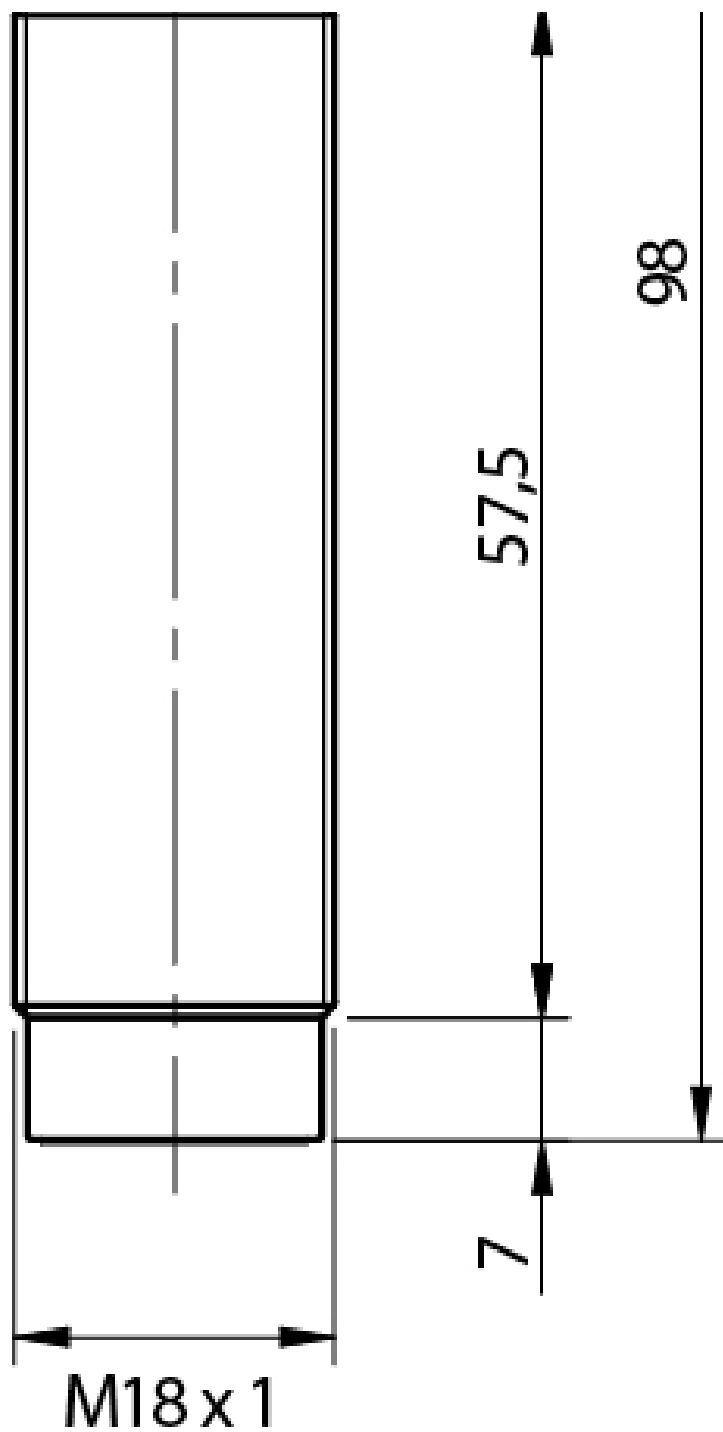


OTHERS

Dimensions

M12 x 1





**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**
13/06/2026
13:45:10