



Small

95B000090

SM-PR-2-B00-NN

**COMPLETE LINE OF AMPLIFIED SUBMINIATURE
PHOTOELECTRIC SENSORS**

OVERVIEW

- 15 mm, 20 mm, 30 mm and 50 mm fixed focus proximity
- 1,5 m retroreflective and 1 m polarized retroreflective
- 2 m through beam models
- Amplified NPN or PNP output with NO-NC output

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1m
--------------------------	----

Sensitivity adjustment	n/a
------------------------	-----

Application

Function Principle	Polarized retroreflective
--------------------	---------------------------

Description	Subminiature slim case
-------------	------------------------

Optic position	Radial 90°
----------------	------------

Functions	Polarized retroreflective
-----------	---------------------------

Outputs

Output type	NPN NO+NC
-------------	-----------

Output Function	NO+NC
-----------------	-------

Switching frequency	590Hz
---------------------	-------

Response time	0,7ms
---------------	-------

Electrical data

Operating Voltage	10...30VDC
-------------------	------------

No-Load supply current	$\leq 20\text{mA}$
------------------------	--------------------

Load current	$\leq 50\text{mA}$
--------------	--------------------

Output voltage drop	$\leq 1,25\text{V}@I_{\text{load}}=50\text{mA}$
---------------------	---

LED indicators	Yellow (output status)
----------------	------------------------

Short-circuit protection	YES
--------------------------	-----

Reverse Polarity Protection	Yes
-----------------------------	-----

Emission	LED Red (640nm)
----------	-----------------

Interference to external light	according to EN 60947-5-2 : 2020
--------------------------------	----------------------------------

Impulsive Overvoltage Protection	Yes
----------------------------------	-----

Insulation resistance	$>20\text{ M}\Omega$ 500 Vdc, between electronics and housing
-----------------------	---

Contact resistance	500 Vac 1 min., between electronics and housing
--------------------	---

Mechanical data

Dimensions	8x23x12
------------	---------

Material	
----------	--

Housing material	Plastic PC / Glass
------------------	--------------------

Connections	2m cable
-------------	----------

Active Head Material	PMMA
----------------------	------

Storage temperature	- 35°C...+75°C
---------------------	----------------

Diameter/Dimension	Cubic
--------------------	-------

Test/Approvals

Approvals	CE cULus
-----------	----------

Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
-----------------------	--

Generical Data

Dimensions	8x23x12
------------	---------

Operating Temperature	- 20°C...+ 55°C
-----------------------	-----------------

Mechanical Protection	IP67
-----------------------	------

Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail

date of printing

10/08/2026
02:03:56

info@datasensing.com