



S100

950810004

S100-PR-5-W00-OZ

THE UNIVERSAL MINIATURE PHOTOELECTRIC SENSORS

OVERVIEW

- Two threaded front mounting holes
- Two slotted rear mounting holes
- Anti-tampering sensor (no adjustment)
- High speed high resolution RGB contrast sensor available
- Transparent object detection
- M8 connector and cable models
- PNP or NPN models with Light/Dark selection by wire
- Plastic housing, IP67 mechanical protection
- IO-Link COM2 communication protocol
- IO-Link V1.1.2 version
- IO-Link extended parametrization for monitoring and maintenance

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	12mm
--------------------------	------

Sensitivity adjustment	Ext. Teach
------------------------	------------

Application

Function Principle	Contrast mark detection
--------------------	-------------------------

Description	Miniature universal multi-holes
Optic position	Radial 90°
Functions	Contrast mark detection

Outputs

Output type	NPN / PNP IO Link
Output Function	IO Link
Switching frequency	20Khz
Response time	25μs

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 35mA
Load current	≤100mA
Output voltage drop	≤2V@Iload=100mA
LED indicators	Yellow (status output)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED RGB
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes

Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
-----------------------	---

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

Mechanical data

Dimensions	12x32x20
------------	----------

Housing Material	ABS
------------------	-----

Connections	M8 plug 4pin
-------------	--------------

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

Storage temperature	- 25°C...+70°C
---------------------	----------------

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

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	12x32x20
------------	----------

Operating Temperature	- 25°C...+ 55°C (Without freeze)
-----------------------	----------------------------------

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

**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**
09/04/2026
05:25:13