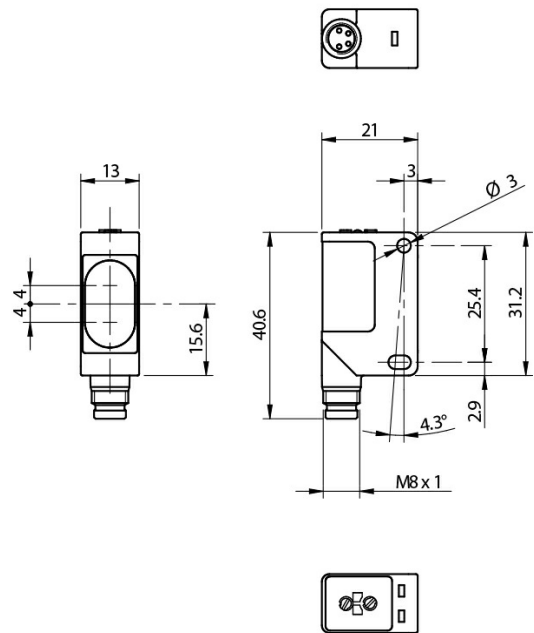
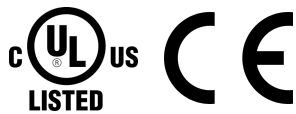




Indicative image

MINIATURIZED PHOTOELECTRIC SENSORS WITH HIGH PERFORMANCE

- Cubic miniaturized photoelectric high-performance sensors with long sensing distance
- 2 kHz switching frequency, background suppression with mechanical adjustment
- Wide range of models: diffuse reflection with short, medium and long sensing distance, polarized, reflective for transparent objects, through-beam and background suppression
- Available with cable and M8 plug exit or with M8-M12 pig-tail
- Selectable LO/DO output state
- Completely filled with resin (except background suppression models)
- Complete protection against electrical damages



Detection properties

Nominal sensing distance	5m with reflector RL110 EGx4
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Polarized
Notes	with reflector RL110 EGx2

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

Outputs

Output type	NPN
-------------	-----

Output Function	LO/DO
-----------------	-------

Switching frequency	2kHz
---------------------	------

Electrical data

Operating Voltage	10...30Vdc
-------------------	------------

No-Load supply current	≤30mA
------------------------	-------

Load current	≤100mA
--------------	--------

Leakage current	≤10μA
-----------------	-------

Output voltage drop	2V max. IL =100 mA
---------------------	--------------------

Max ripple content	10%
--------------------	-----

LED indicators	Yellow (status output) , green (excess gain)
----------------	--

Time delay before availability	≤200ms
--------------------------------	--------

Short-circuit protection	Yes
--------------------------	-----

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

Emission	Red (630 nm)
----------	--------------

Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
--------------------------------	--

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

Mechanical data

Dimensions	40,6x21x13mm
------------	--------------

Weight	10g
--------	-----

Housing Material	PA66
------------------	------

Connections	M8 Plug 4 pin
-------------	---------------

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

Tightening torque	1Nm
-------------------	-----

Operating temperature	- 25°C...+ 70° C (Without freeze)
-----------------------	-----------------------------------

Storage temperature	- 30°C...+ 80° C (Without freeze)
---------------------	-----------------------------------

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

Test/Approvals

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

EMC compatibility	EN 60947-5-2
-------------------	--------------

Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
-----------------------	--

Degree of protection	IP67
----------------------	------

Generical Data

Dimensions	40,6x21x13mm
------------	--------------

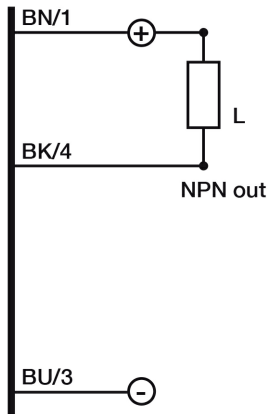
Operating Temperature

- 25°C...+ 70° C (Without freeze)

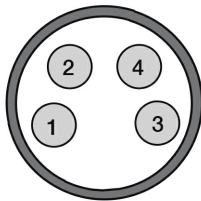
Mechanical Protection

IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

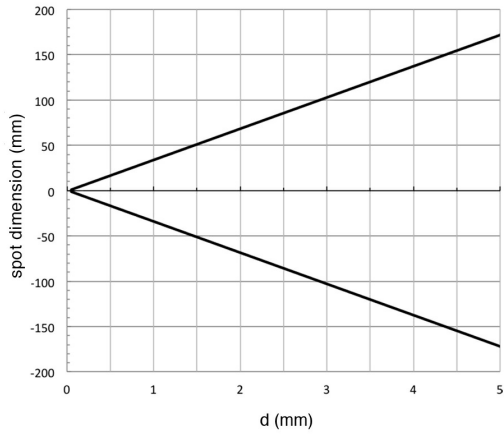


CONNECTOR

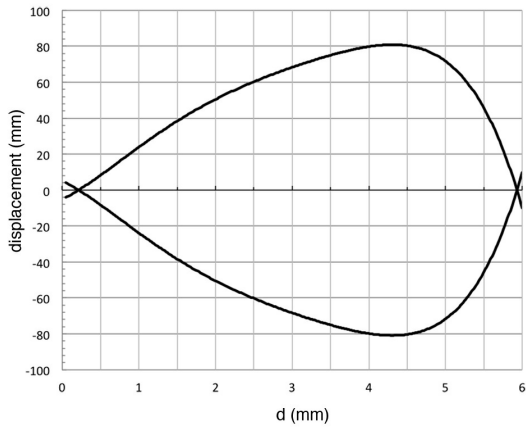


RESPONSE CURVES

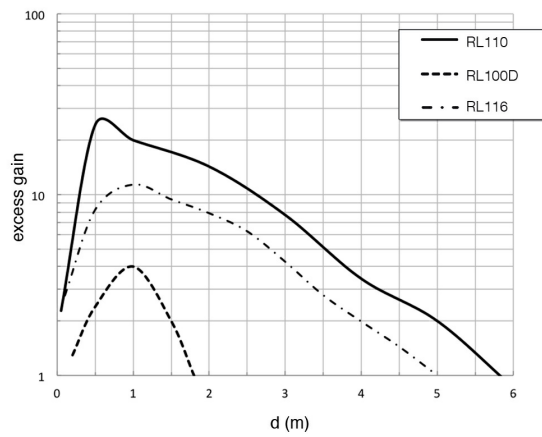
Dimensione Spot



Parallel offset



Excess of Earnings



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

25/04/2022 20:48:04

