

QX

QX3/C0-2E

Photo.Min, NPN+PNP-NC, M12 plug, Diffuse
DC MINIATURIZED CUBIC PHOTOELECTRIC SENSORS

OVERVIEW

- Axial and right angle optics
- 2 LEDs (threshold and signal margin)
- Visible red light in retro-reflective, polarized and through-beam models
- Long distances capability
- Precision beam
- Fast response time (0,75-0,5 ms)
- NPN-PNP selectable output
- High output current (>300 mA)



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	300mm
--------------------------	-------

Repeat Accuracy	≤ 5%
-----------------	------

Sensitivity adjustment	Trimmer
------------------------	---------

Application

Function Principle	Diffuse reflection (medium distance, ≤600mm)
--------------------	--

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

Outputs

Output type	NPN/PNP Selectable NC
Output Function	NC
Switching frequency	750Hz
Response time	666μs

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 20mA
Load current	≤300mA
Leakage current	≤ 100μA @ 30Vdc
Output voltage drop	≤1,2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Red(output status) , Geen (stability)
Time delay before availability	≤200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Infrared (880nm)

Interference to external light	3000lux Incandescent Lamp, 10000lux
--------------------------------	-------------------------------------

Mechanical data

Dimensions	15x23x50
Material	ABS
Housing material	
Weight	70g
Connections	M12 plug
Active Head Material	Acrylic
Operating temperature	- 25°C...+ 70°C (without freeze)
Diameter/Dimension	Cubic

Test/Approvals

Approvals	CE
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-28
Degree of protection	IP65

Accessories

Supplied Accessories	ST70 mounting brakets and screws
----------------------	----------------------------------

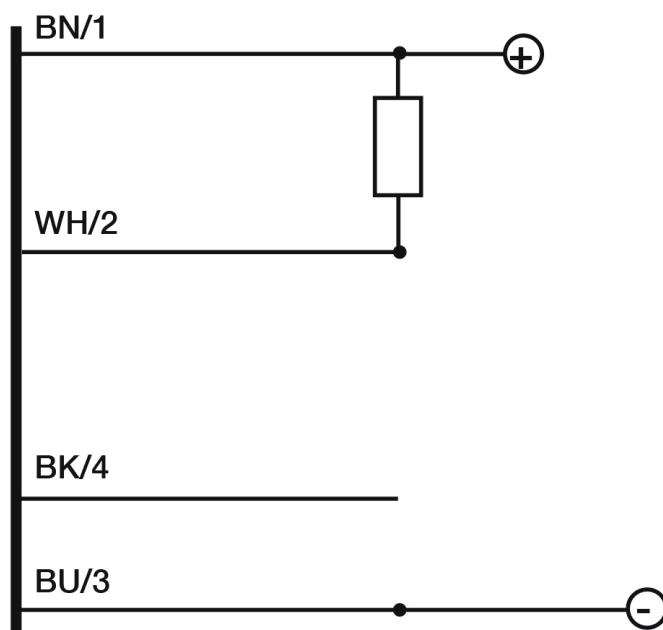
Generical Data

--	--

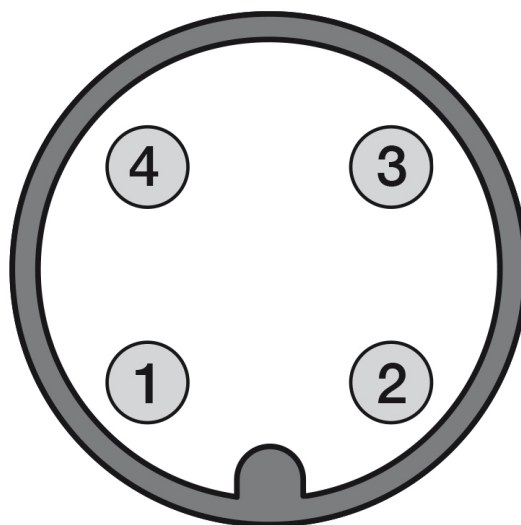
Dimensions	15x23x40
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP65

CONNECTIONS

Eletrical diagram

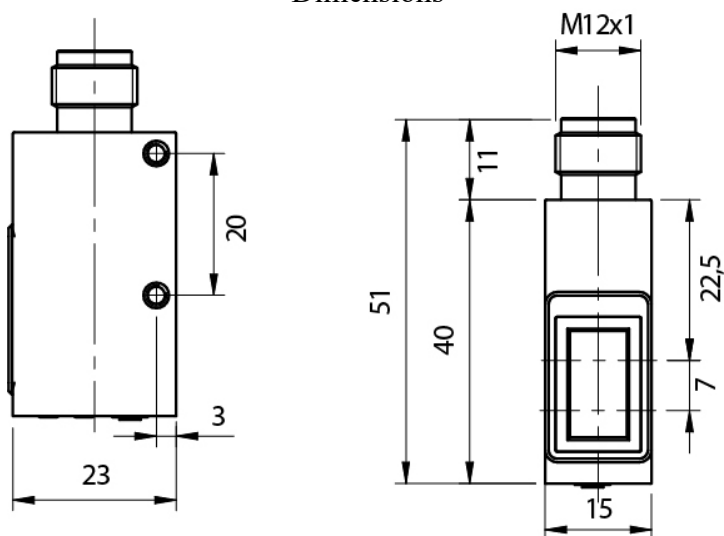


Connector

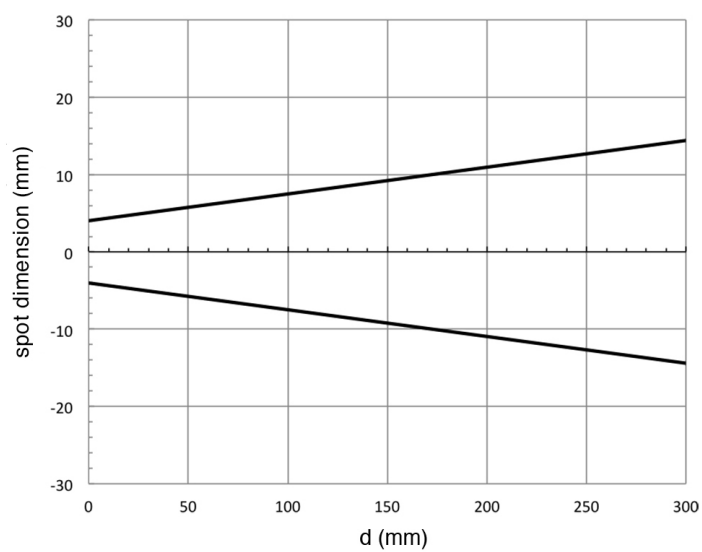


OTHERS

Dimensions



Response curves



**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**
10/08/2026
00:29:57