



Q50

Q50ID/B0-0E

**Photo.50x50,NPN/PNP-NO+NC,M12
plug,Diff.**

**COMPACT CUBIC 50 X 50 MM UNIVERSAL
PHOTOELECTRIC SENSOR**

OVERVIEW

- Universal photoelectric sensor, excellent performances and high versatility due to the wide choice of different versions available
- Cable output or revolving connector, NPN/PNP outputs for Vdc models or SPDT relay output for multi -voltage Vdc / Vac models
- Complementary outputs NO + NC available on the Vdc models or selectable output NO/NC available on the multi-voltage Vdc/Vac models
- Totally protected against electrical damages
- Wide choice of optical functions available: Diffuse: 2 m; background suppression: 500 mm; polarized: 6m; through beam: 20 m. Dual multifunction output state LEDs

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	20m
--------------------------	-----

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

Application

Function Principle	Receiver
--------------------	----------

Optic position	Axial
----------------	-------

Outputs

Output type	NPN/PNP Selectable NO+NC
Output Function	NO+NC
Switching frequency	500Hz
Response time	1ms

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	$\leq 40\text{mA}$
Load current	$\leq 200\text{mA}$
Output voltage drop	$\leq 2,5\text{V}@I_{\text{load}}=200\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Yellow (Output status), Green (stability, powerON)
Time delay before availability	$\leq 200\text{ms}$
Short-circuit protection	Yes
Reverse Polarity Protection	Yes

Mechanical data

Dimensions	50X50mm
Material	PC/ABS

Housing material	PC/ABS
Weight	105g
Connections	M12 plug
Active Head Material	PMMA
Operating temperature	- 20°C...+ 60°C (UL omologation 0°C...60°C)
Diameter/Dimension	Cubic

Test/Approvals

EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-58
Degree of protection	IP67

Accessories

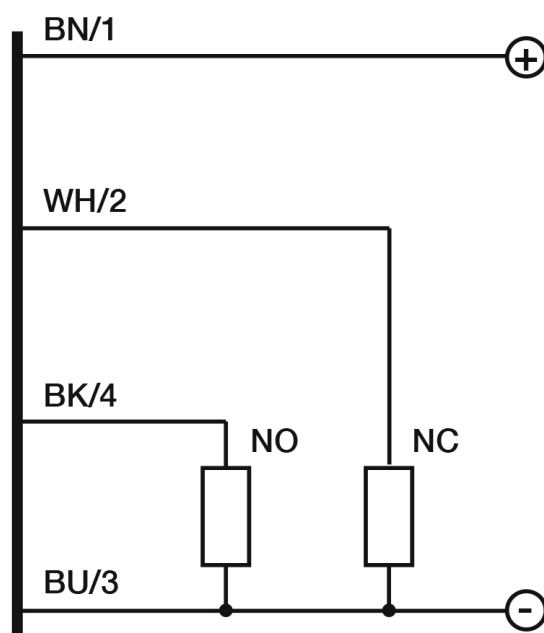
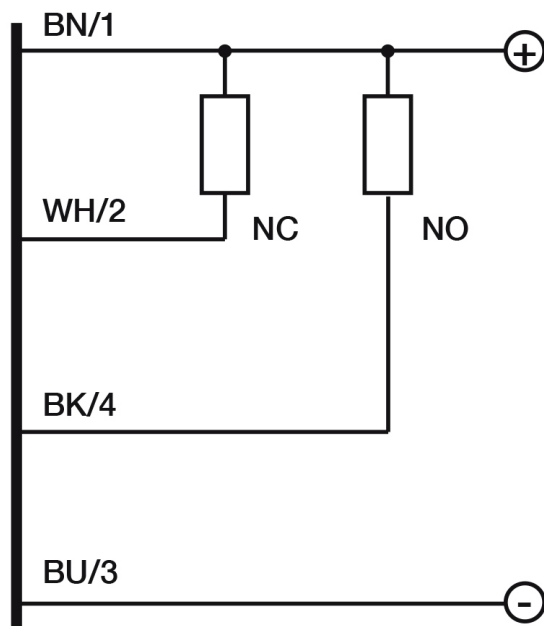
Supplied Accessories	Mounting bracket
----------------------	------------------

Generical Data

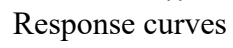
Dimensions	50x50x17mm
Operating Temperature	- 20°C...+ 60°C (Without freeze)
Mechanical Protection	IP67

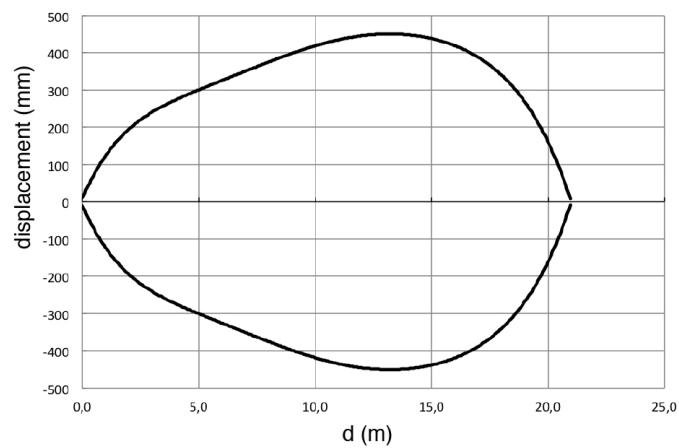
CONNECTIONS

Eletrical diagram



Connector





**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
10:57:02