



BS-BV

BS2/00-0E

Photo.Midi,NPN/PNP-NO/NC,M12 plug,Diff.
CUBIC PHOTOELECTRIC SENSORS DECOU® OUTPUT - DC
OR AC

OVERVIEW

- Wide range of models: diffuse, retro-reflective, polarized
- Multifunctional DECOU® output and logic connection possibilities (DC types)
- Multivoltage 20-253 Vac and TRIAC output with NO/NC selectable (AC types)
- Sensitivity adjustment
- Standard cable exit or M12 plug exit
- LED status indicator
- Completely filled with resin
- High sensing range



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	100mm
--------------------------	-------

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

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

Application

Function Principle	Diffuse reflection (short distance, ≤200mm)
--------------------	---

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

Outputs

Output type	Decout NPN/PNP Selectable NO/NC Selectable
Output Function	NO/NC Selectable
Switching frequency	80Hz
Response time	6,25ms

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 25mA
Load current	≤100mA
Leakage current	≤ 10μA
Output voltage drop	≤1,2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Red (output status)
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	16x37x64
Material	
Housing material	ABS
Weight	185g
Connections	M12 plug 90°
Active Head Material	PMMA
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 60068-2-30
Degree of protection	IP65

Accessories

Supplied Accessories	ST01 mounting brakets and screws
----------------------	----------------------------------

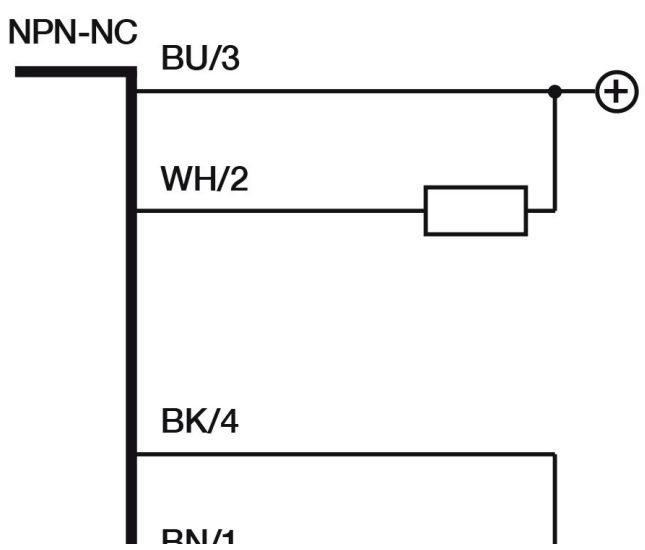
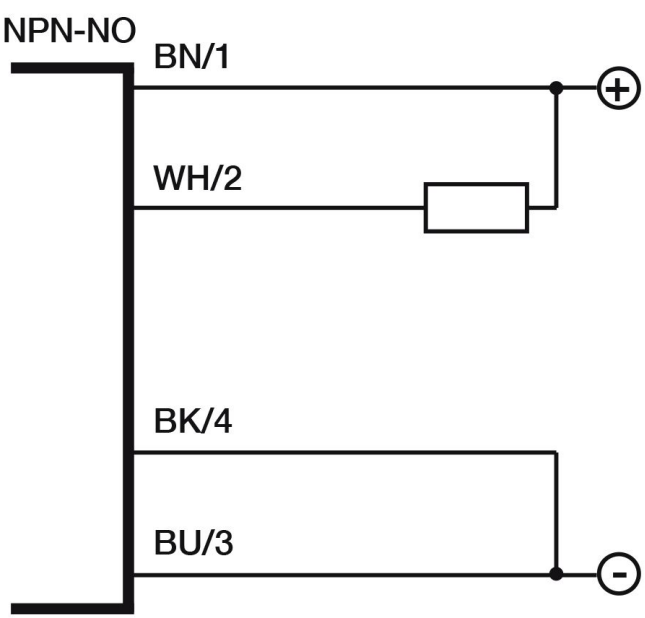
Generical Data

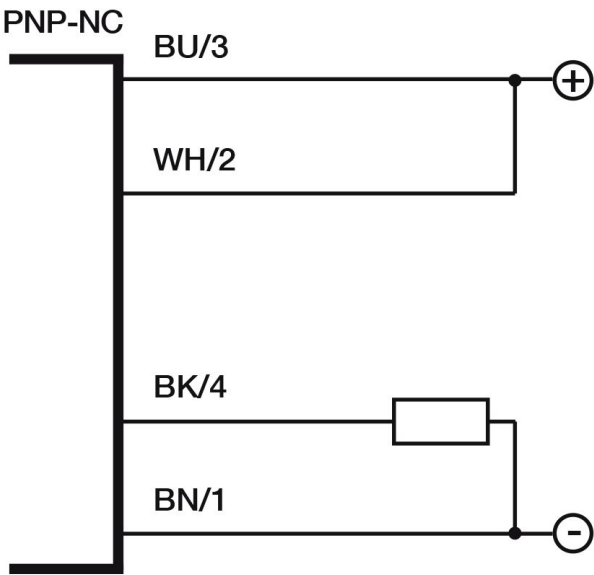
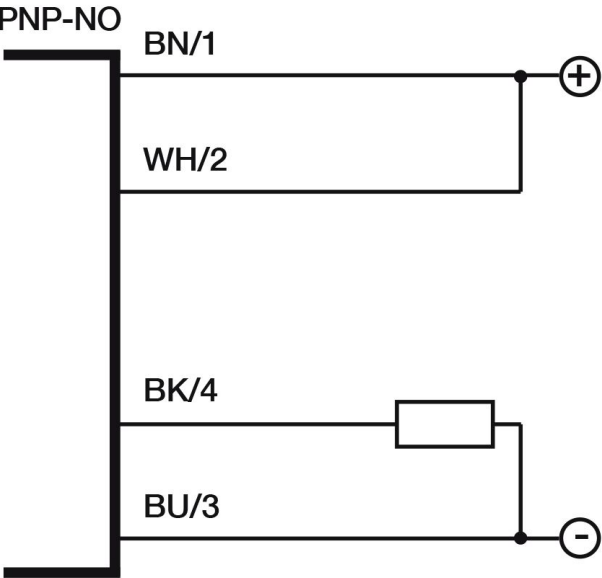
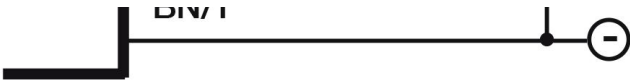
--	--

Dimensions	16x37x64
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP65

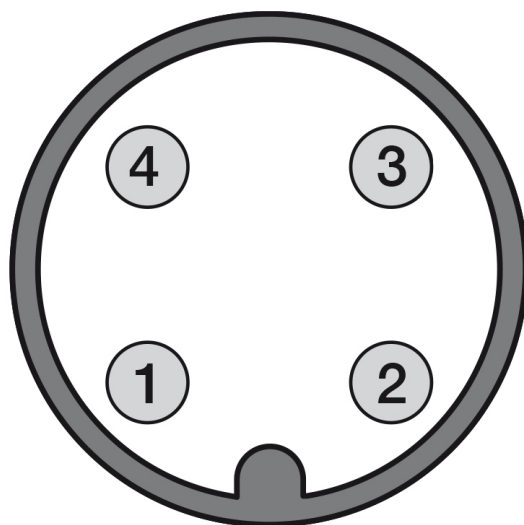
CONNECTIONS

Eletrical diagram



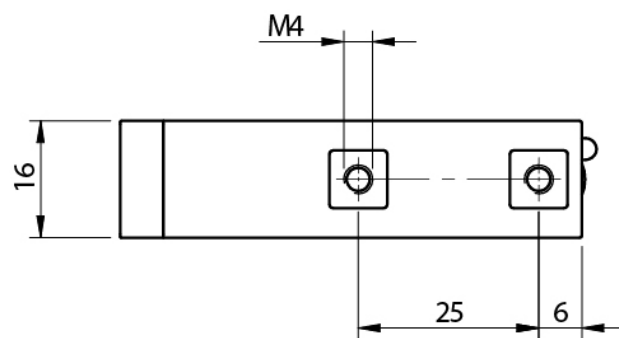
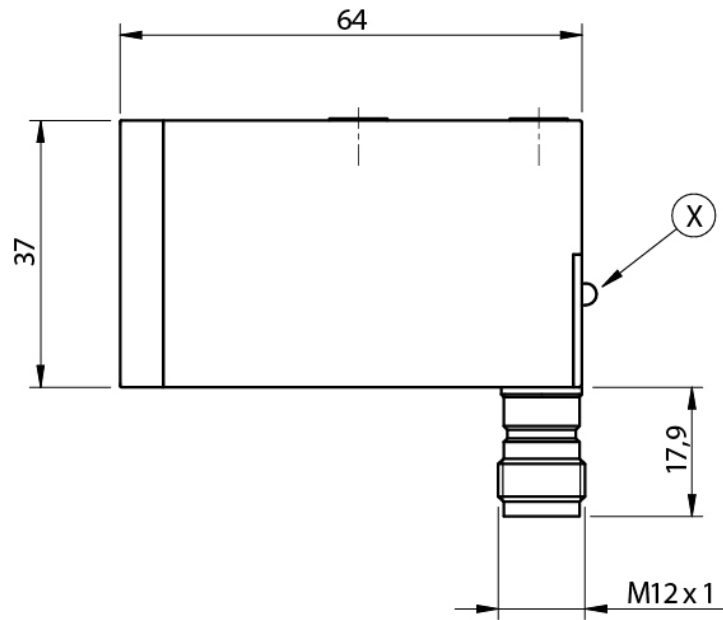


Connector

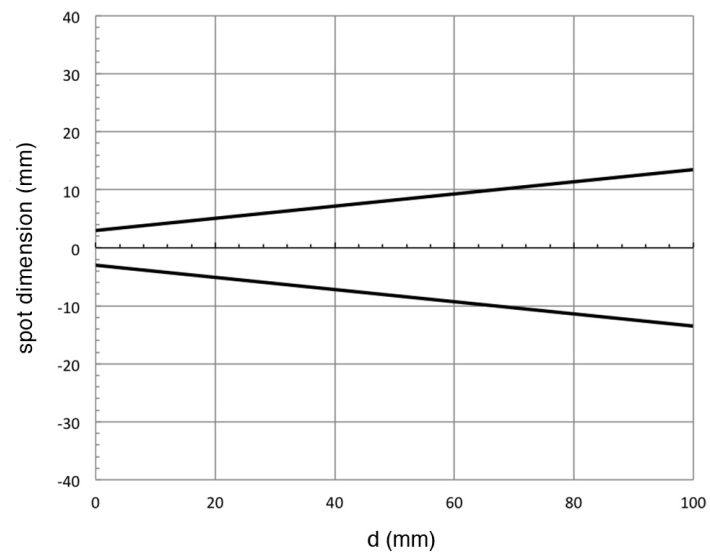


OTHERS

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