



MS-MP

MS7/00-0E

Photo.M18,NPN/PNP-NO/NC,M12
plug,Diffuse
M18 DECOUT® DC OUTPUT

OVERVIEW

- Wide range of models: diffuse, retro-reflective, polarized, through-beam detection and background suppression
- Through-beam models with high sensing range
- Retro-reflective models with red visible polarized light
- Models with right angle optic (MP)
- Background suppression models with fixed distance
- Check function available for all through-beam models
- Complete protection against electrical damage



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	400mm
--------------------------	-------

Thermal drift of Sr	≤10% Sr
---------------------	---------

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

Sensitivity adjustment	No
------------------------	----

Application

Function Principle	Diffuse reflection (medium distance, $\leq 600\text{mm}$)
--------------------	--

Notes	white target Kodak 90% 200 x 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	$\leq 40\text{mA}$
------------------------	--------------------

Load current	$\leq 100\text{mA}$
--------------	---------------------

Leakage current	$\leq 10\mu\text{A}$
-----------------	----------------------

Output voltage drop	$\leq 1,2\text{V}@I_{\text{load}}=100\text{mA}$
---------------------	---

Max ripple content	$\leq 10\%$
--------------------	-------------

LED indicators	Red (status output)
----------------	---------------------

Time delay before availability	$\leq 200\text{ms}$
--------------------------------	---------------------

Short-circuit protection	Short circuit (autoreset), Overvoltage
--------------------------	--

Emission	LED Infrared (880nm)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
Impulsive Overvoltage Protection	Impulsive Overvoltage Protection

Mechanical data

Dimensions	M18 x 1 /L =78,9mm
Housing material	PBT / PC plug
Weight	30g
Connections	M12 plug
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	25°C..+ 70° C (Without freeze)
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cURus
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

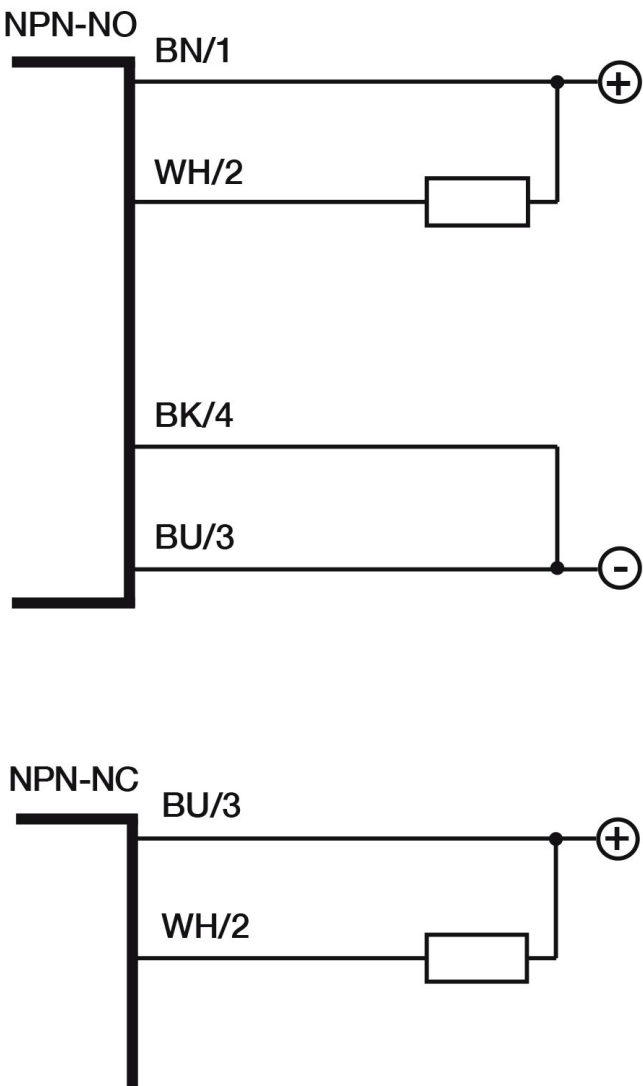
Accessories

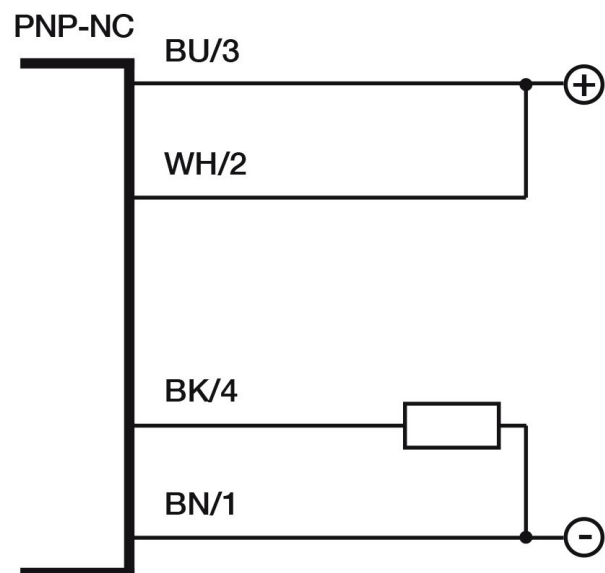
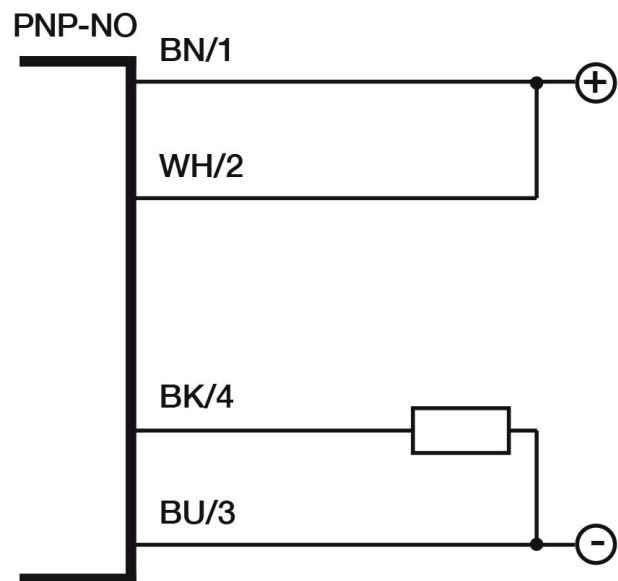
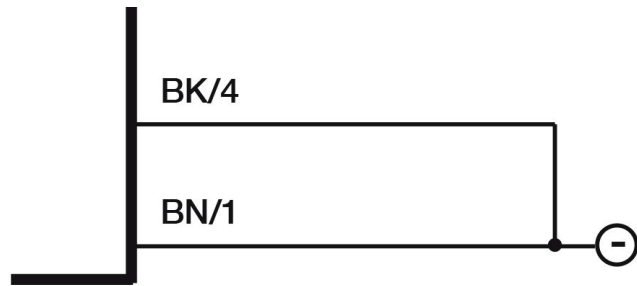
||
||
||

Supplied Accessories	nuts M18 x 1, screwdriver
Generical Data	
Dimensions	M18 x 1 /L =78,9mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

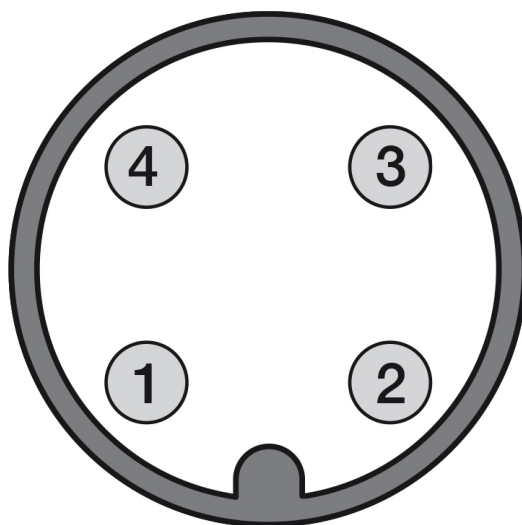
CONNECTIONS

Eletrical diagram



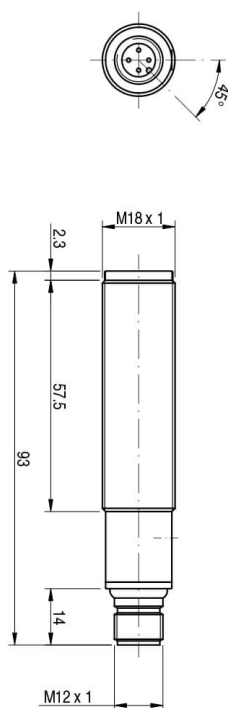


Connector

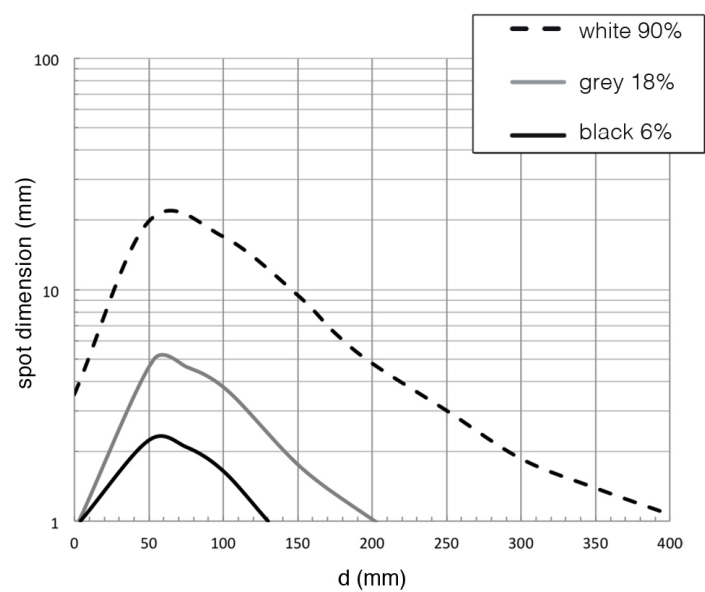


OTHERS

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
03:46:45