



MS-MP

MS1/00-1E

Photo.M18,NPN/PNP-NO/NC,M12 plug,BGS
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	100mm
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle	Blackground suppression
--------------------	-------------------------

Notes	white target Kodak 90% 100 x 100mm
-------	------------------------------------

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

Outputs

Output type	Decout NPN/PNP Selectable NO/NC Selectable
-------------	--

Output Function	NO/NC Selectable
-----------------	------------------

Switching frequency	1Khz
---------------------	------

Response time	500μs
---------------	-------

Electrical data

Operating Voltage	10...30VDC
-------------------	------------

No-Load supply current	≤ 40mA
------------------------	--------

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

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

Output voltage drop	≤1,2V@Iload=100mA
---------------------	-------------------

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

LED indicators	Yellow (status output)
----------------	------------------------

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

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 =93mm
Housing material	Nickel plated brass / PC plug
Weight	100g
Connections	M12 plug
Active Head Material	PMMA
Tightening torque	25Nm
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

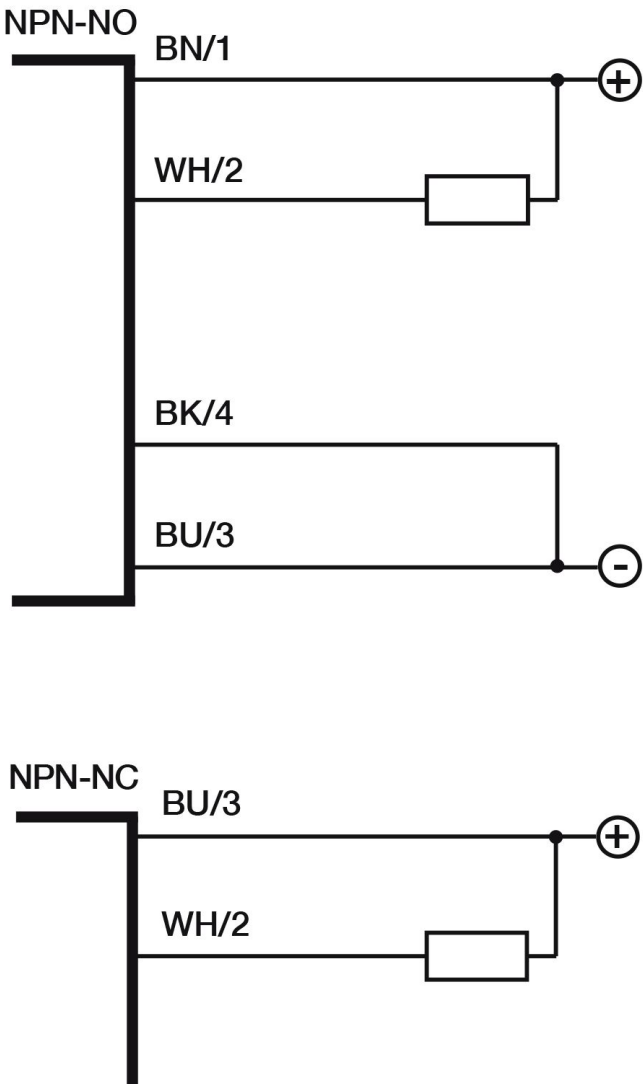
Accessories

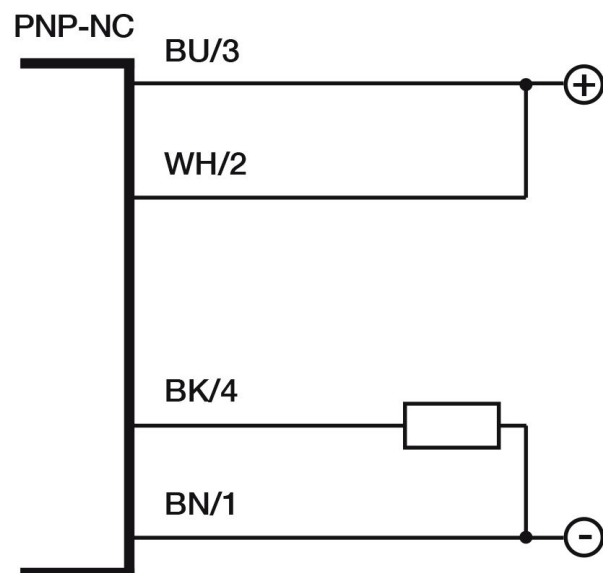
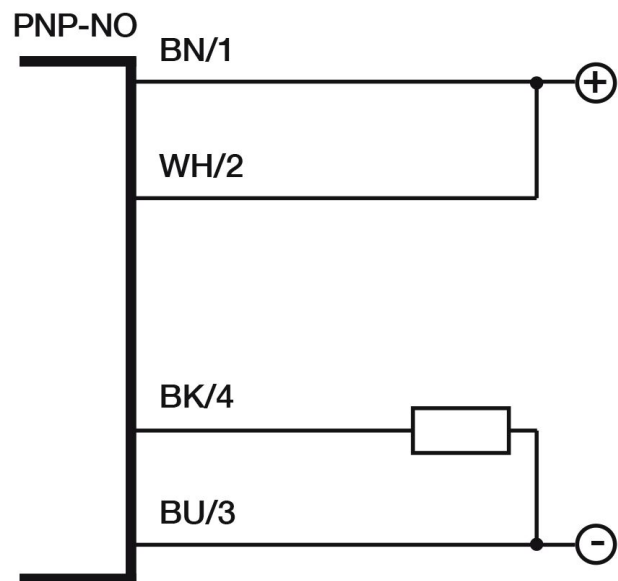
||
||
||

Supplied Accessories	nuts M18 x 1
Generical Data	
Dimensions	M18 x 1 /L =93mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

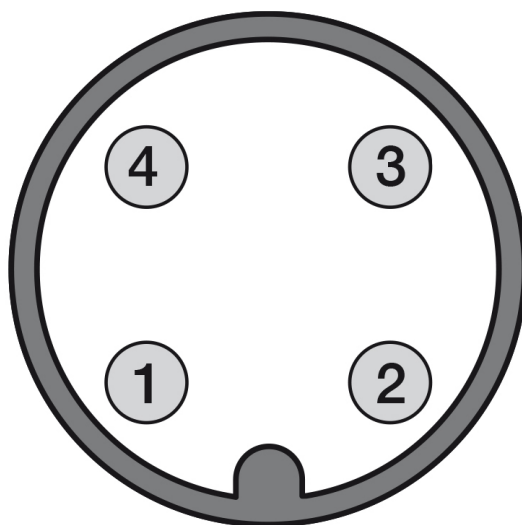
CONNECTIONS

Eletrical diagram



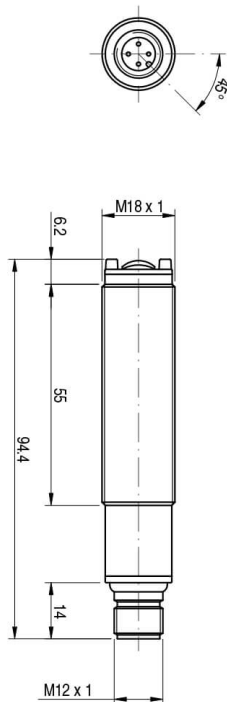


Connector

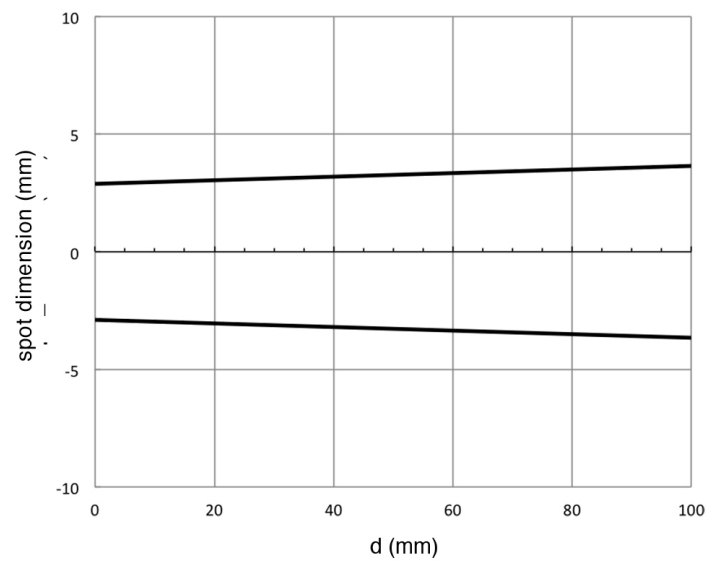


OTHERS

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**
09/08/2026
23:48:43