



MS-MP

MSN/00-0E

Photo.M18,NPN/PNP-NO/NC,M12
plug,Reflex
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	3,5m
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle

Polarized

Notes

On RL110 reflector

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

$\leq 30\text{mA}$

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 Red (660nm)
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	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

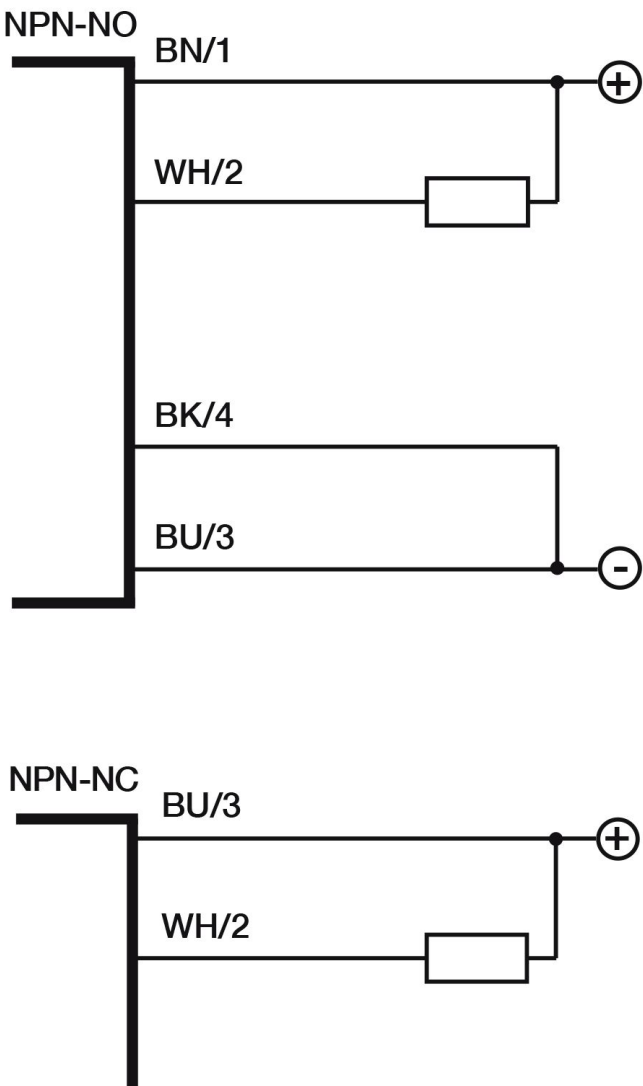
Accessories

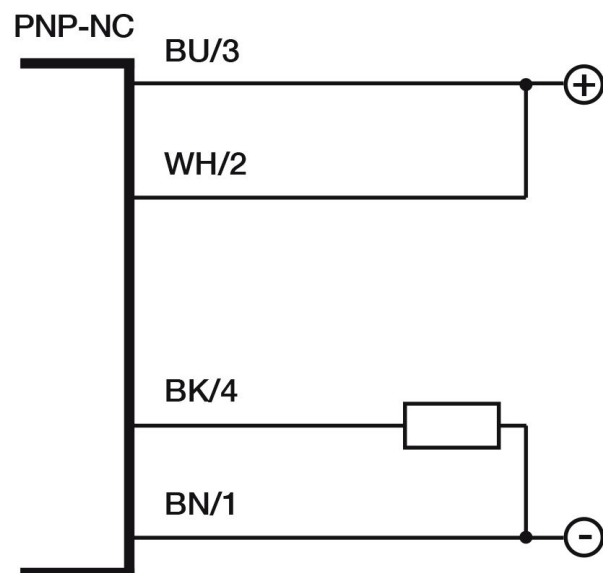
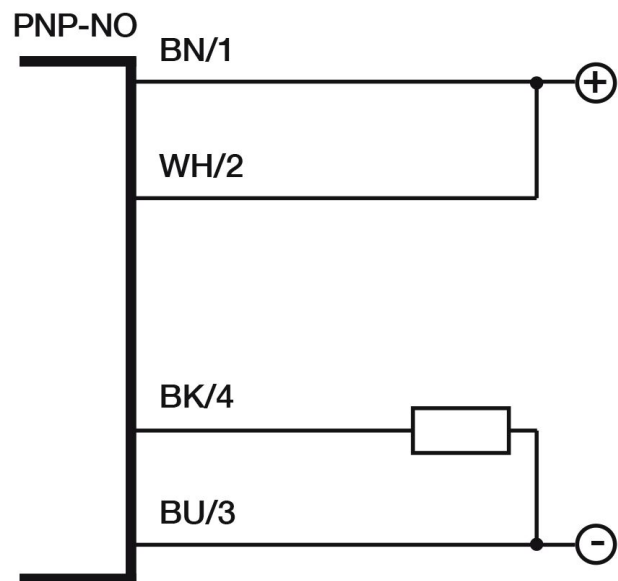
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Supplied Accessories	nuts M18 x 1, screwdriver
Generical Data	
Dimensions	M18 x 1 /L =93mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

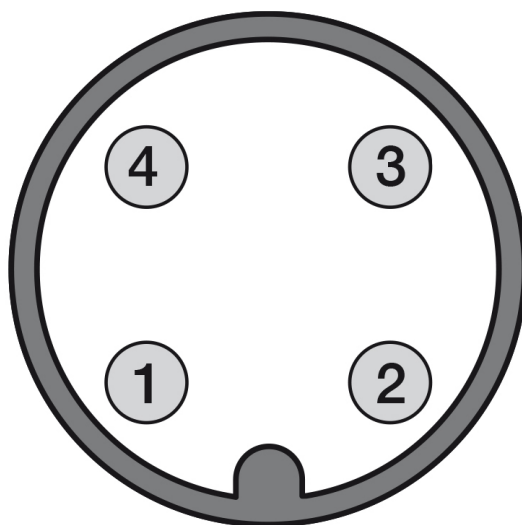
CONNECTIONS

Eletrical diagram



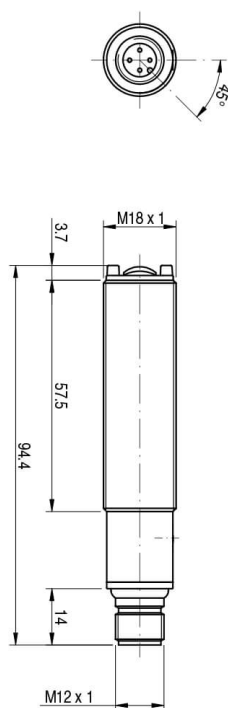


Connector

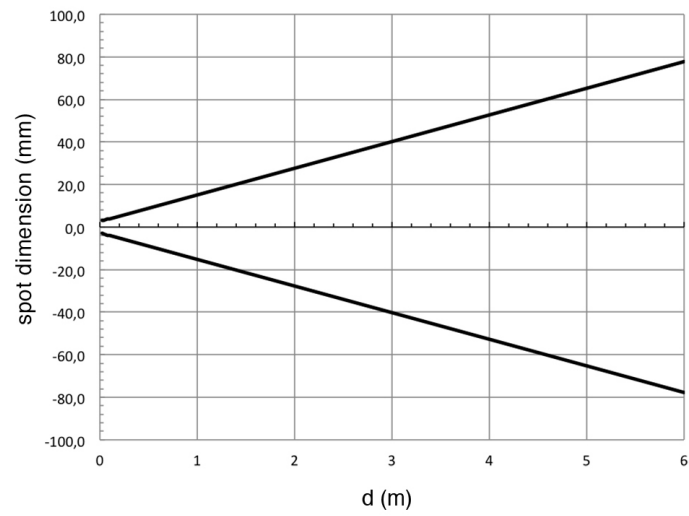


OTHERS

Dimensions



Response curves



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