



MS-MP

MS4/00-1E

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	200mm
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle	Diffuse reflection (short distance, $\leq 200\text{mm}$)
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Notes	white target Kodak 90% 200 x 200mm
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Optic position	Axial
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Outputs

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

Operating Voltage	10...30VDC
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No-Load supply current	$\leq 40\text{mA}$
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Load current	$\leq 100\text{mA}$
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Leakage current	$\leq 10\mu\text{A}$
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Output voltage drop	$\leq 1,2\text{V}@I_{\text{load}}=100\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Red (status output)
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Time delay before availability	$\leq 200\text{ms}$
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Short-circuit protection	Short circuit (autoreset), Overvoltage
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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

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Supplied Accessories

nuts M18 x 1

Generical Data

Dimensions

M18 x 1 / L =93mm

Operating Temperature

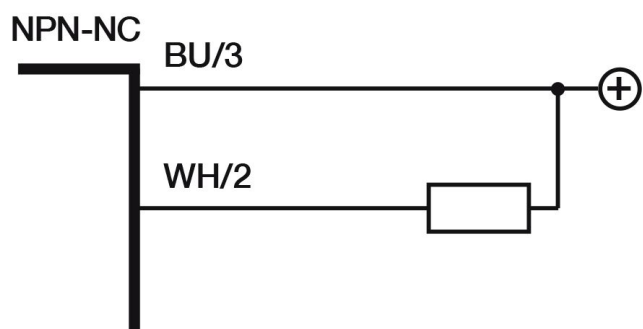
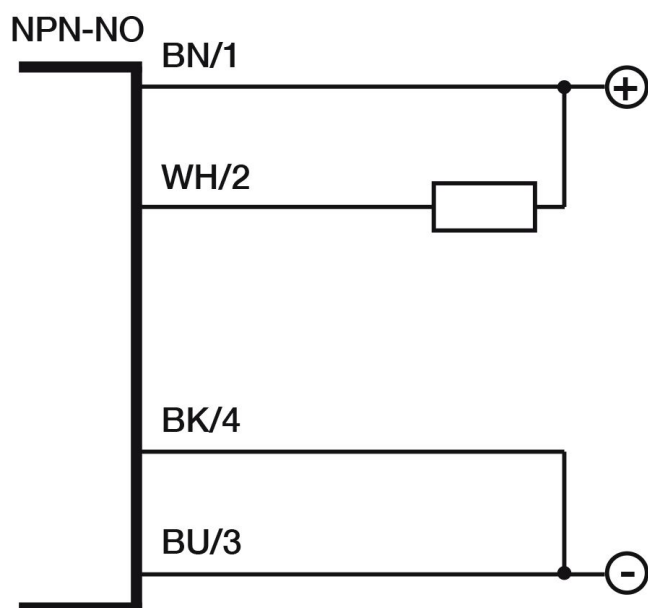
- 25°C...+ 70°C (Without freeze)

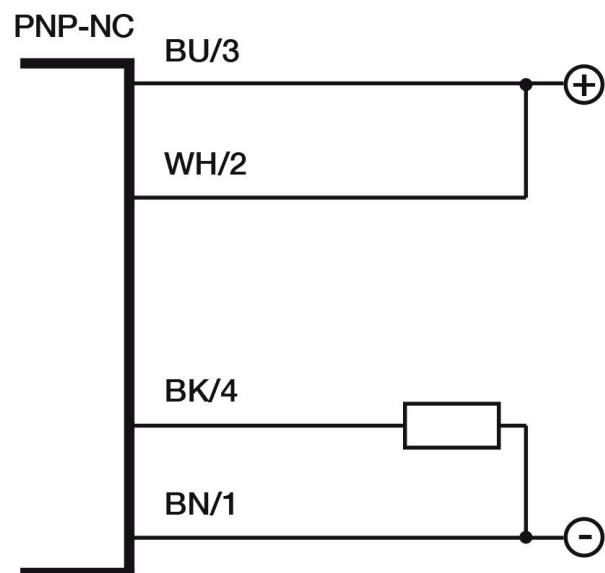
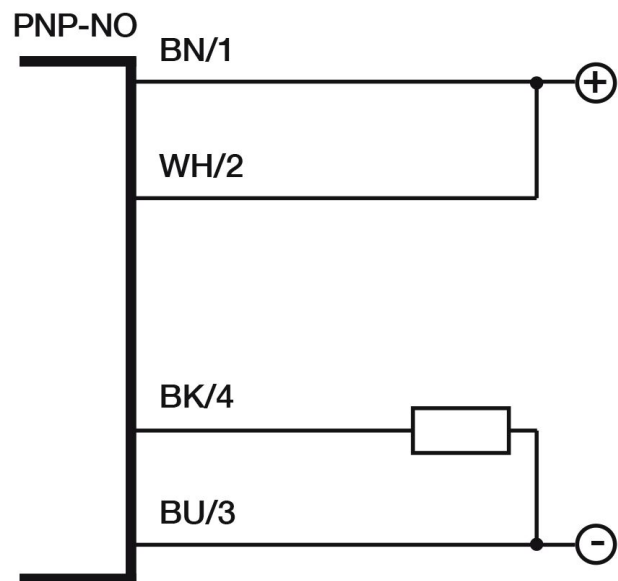
Mechanical Protection

IP67

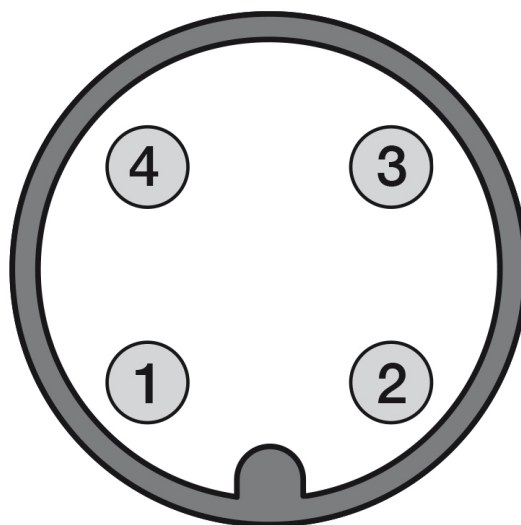
CONNECTIONS

Eletrical diagram



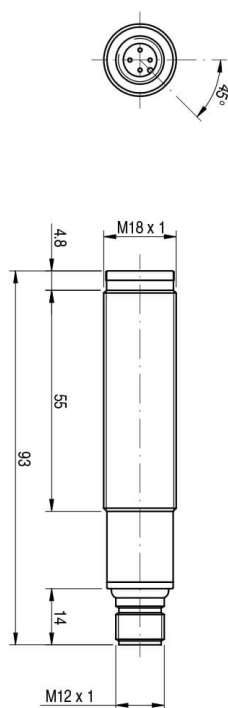


Connector

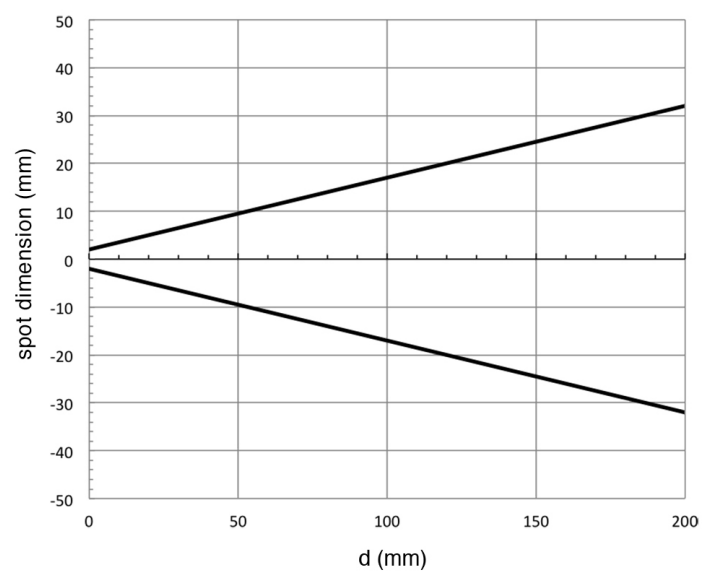


OTHERS

Dimensions



Response curves



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