

MS-MP

MST/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 detec□tion 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	12mm (with STF-12) 25mm (with SFT-25)
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 Decout NO/NC Selectable
Output Function	Decout NO/NC Selectable
Switching frequency	1Khz
Response time	500µs

Electrical data

Operating Voltage	10…30VDC
No-Load supply current	≤ 30mA
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 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	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

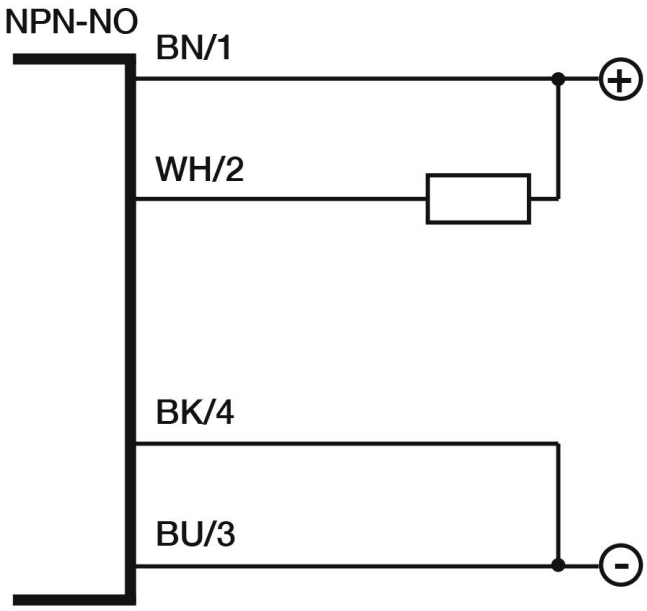
Supplied Accessories	nuts M18 x 1

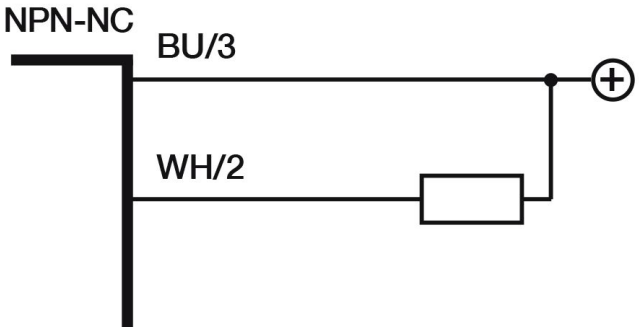
Generical Data

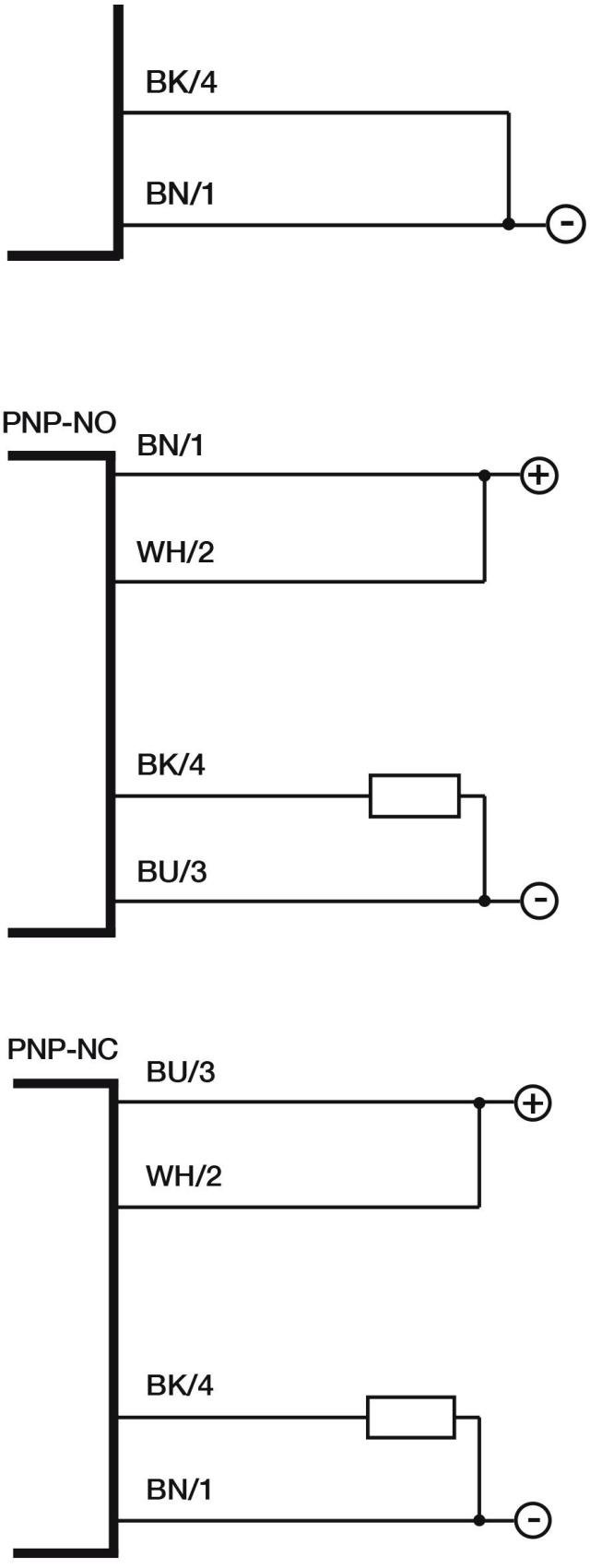
Dimensions	M18 x 1 /L =93mm
Operating Temperature	- 25°C…+ 70°C (Without freeze)
Mechanical Protection	IP67

CONNECTIONS

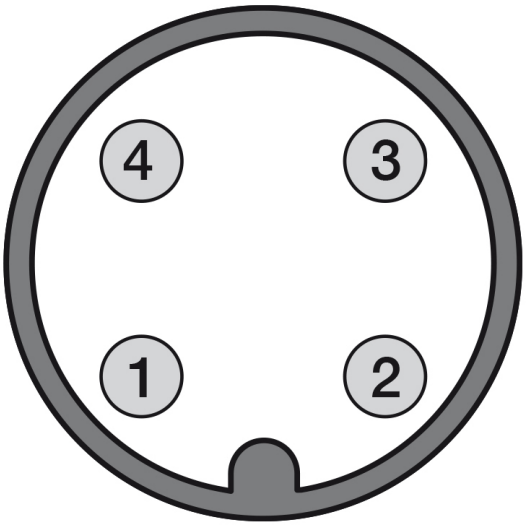
Eletrical diagram





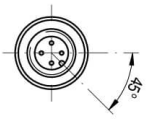


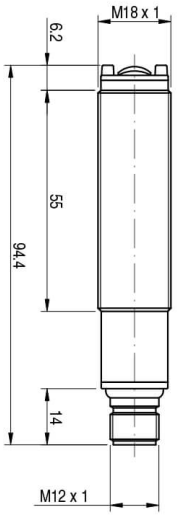
Connector



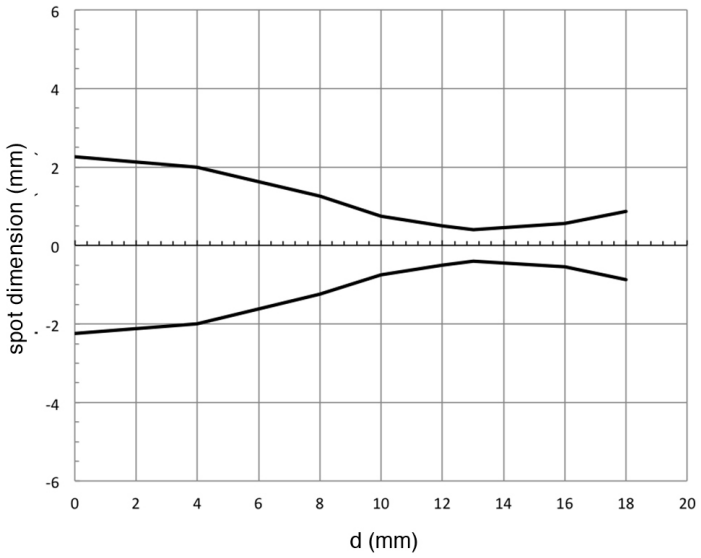
OTHERS

Dimensions





Response curves



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