



FA

FAI5/BP-2E

Photo.M18,PNP-NO+NC,M12 plug,Diffuse
M18 PHOTOELECTRIC SENSORS DC

OVERVIEW

- Complete range of M18 sensors with 10...30 Vdc power supply
- Axial and radial optic with flat surface
- Retro-reflective models for transparent objects detection, with red emission IP67 protection degree
- Metallic or plastic housing
- Sensitivity adjustment available for all models
- Total protection against any type of electric damages
- Approvals: CE and cULus listed



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	200mm
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle	Diffuse reflection (short distance, $\leq 200\text{mm}$)
Notes	white target Kodak 90% 200 x 200mm
Optic position	Radial 90°
Outputs	
Output type	PNP NO+NC
Output Function	NO+NC
Switching frequency	250Hz
Response time	2ms
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	$\leq 2\text{V}@I_{\text{load}}=100\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Yellow (Lon) or output status Lo/Do
Time delay before availability	$\leq 200\text{ms}$
Short-circuit protection	Short circuit (autoreset), Overvoltage

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

Mechanical data

Dimensions	M18 x 1/L=92,7mm
Housing material	PBT / PC plug
Weight	30g
Connections	M12 plug
Active Head Material	PC
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (Without freeze)
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cULus
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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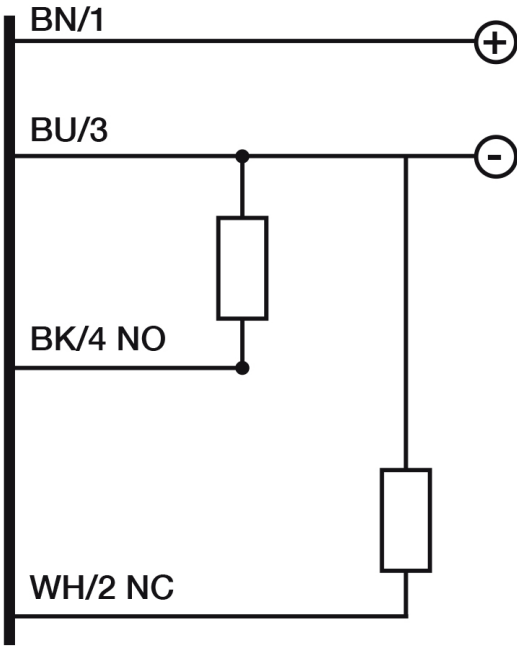
Supplied Accessories	nuts M18 x 1
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Generical Data

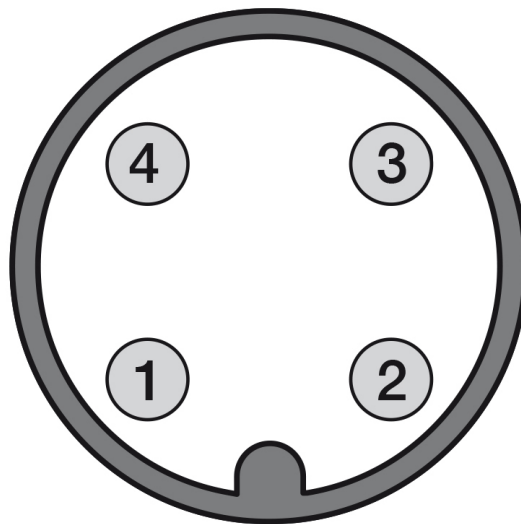
Dimensions	M18 x 1/L=92,7mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

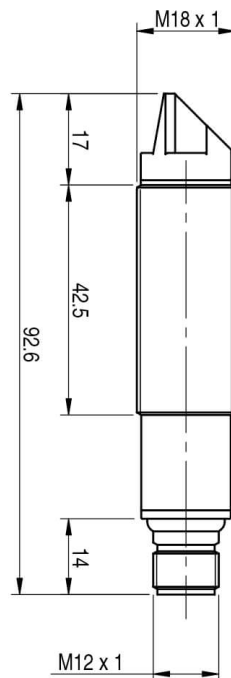


Connector

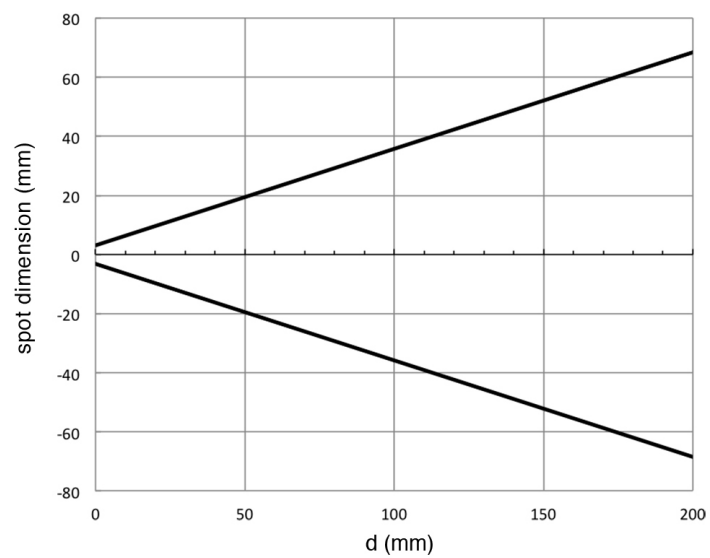


OTHERS

Dimensions



Response curves



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