



# FA

## FAIH/00-1E

Photo.M18,IR emiss.,M12 plug,Emitter  
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	20m
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

### Application

Function Principle	Emitter
Emitter/Receiver	Emitter
Optic position	Axial

#### Outputs

Output type	
Switching frequency	250Hz
Response time	2ms

#### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	$\leq 25\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Yellow (powerON)
Time delay before availability	$\leq 200\text{ms}$
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	LED Infrared (880nm)

#### Mechanical data

Dimensions	M18 x 1 /L =81,6mm
Housing material	Nickel plated brass / PC plug

Weight	100g
Connections	M12 plug
Active Head Material	PC
Tightening torque	25Nm
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

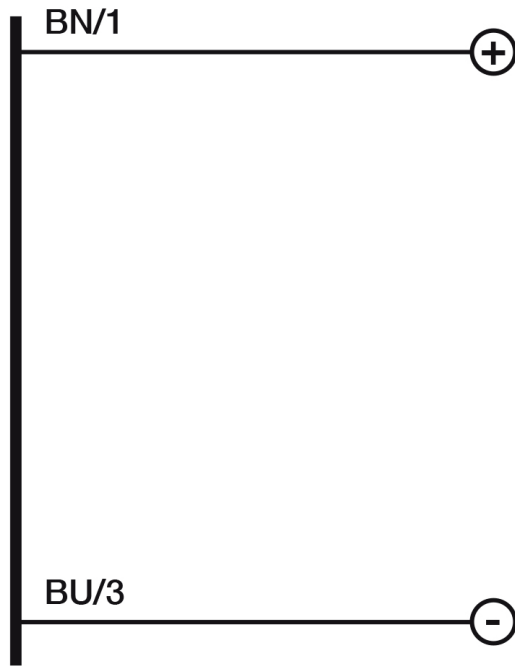
Supplied Accessories	nuts M18 x 1
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#### Generical Data

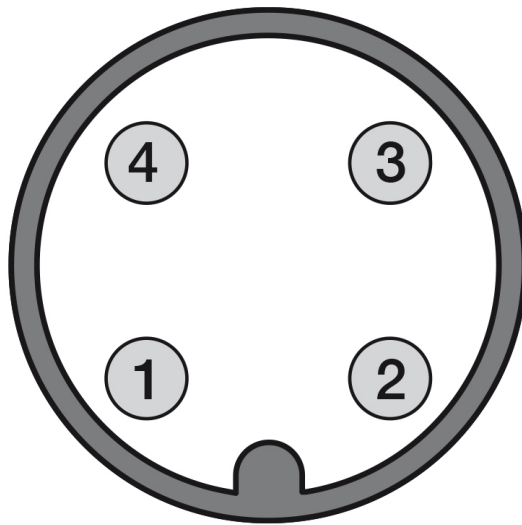
Dimensions	M18 x 1 /L =81,6mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

# CONNECTIONS

Electrical diagram

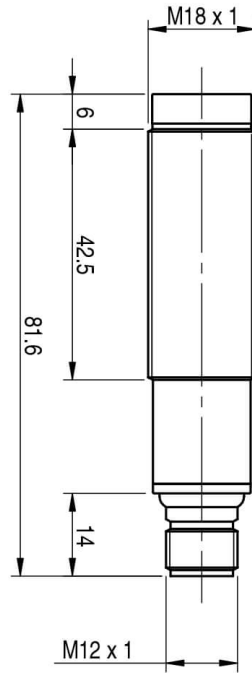


Connector

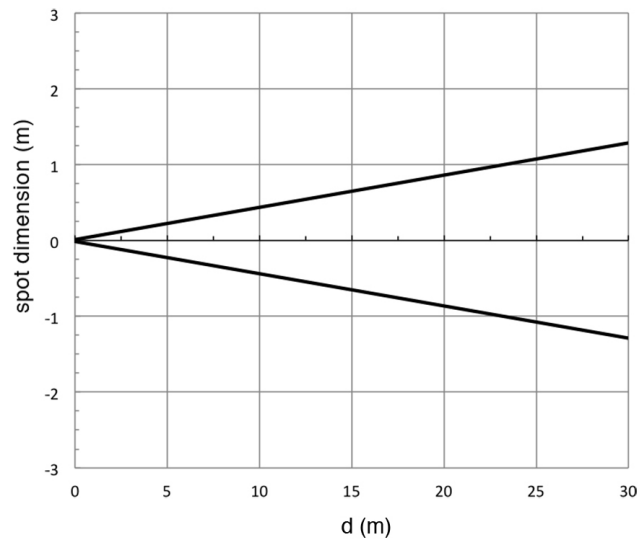


**OTHERS**

Dimensions



Response curves



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