

# FAL4/BN-0A

cylindrical photosensors

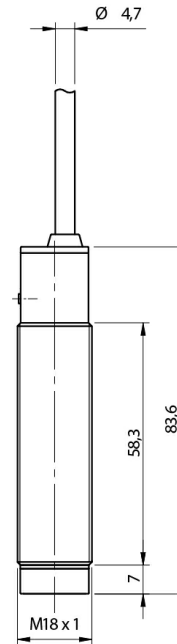


Micro Detectors

Italian Sensors Technology



Indicative image



## Detection properties

Nominal sensing distance	300mm (focalized 100mm) white target 90% Kodak 200x200mm
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Teach-in

## Application

Function Principle	Diffuse reflection (medium distance, ≤600mm)
Optic position	Axial

## Outputs

Output type	NPN
Output Function	NO+NC
Switching frequency	800Hz

## Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤30mA
Load current	≤100mA
Leakage current	≤10μA

Output voltage drop	2V max. IL =100 mA
Max ripple content	10%
LED indicators	Yellow (Lon) or output status Lo/Do
Time delay before availability	≤200ms
Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	Red laser diode (650nm) class1 (IEC60825-1)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)

## Mechanical data

Dimensions	M18 x 1/L=83,6mm
Weight	50g
Housing Material	PBT / PC cable exit
Connections	2m PVC cable
Active Head Material	Glass / PC
Tightening torque	1Nm
Operating temperature	-15°C...+ 55°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

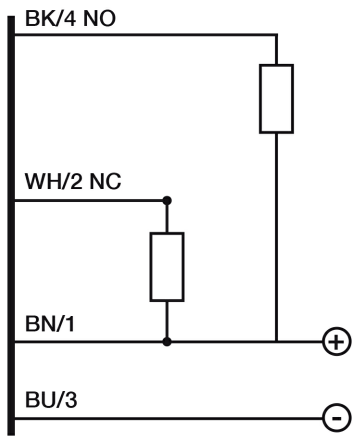
## Accessories

Supplied Accessories	nuts M18 x 1, screwdriver
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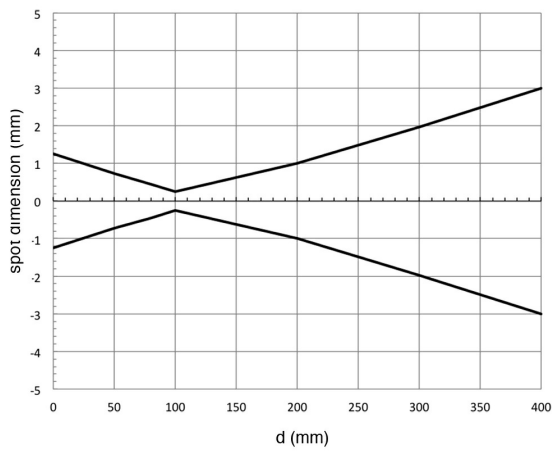
# ELECTRICAL DIAGRAMS OF THE CONNECTIONS

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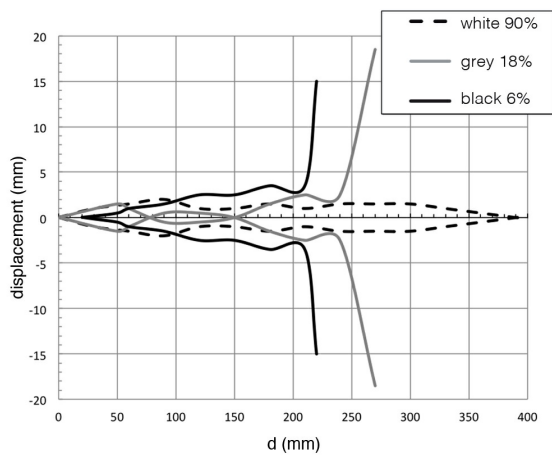


# RESPONSE CURVES

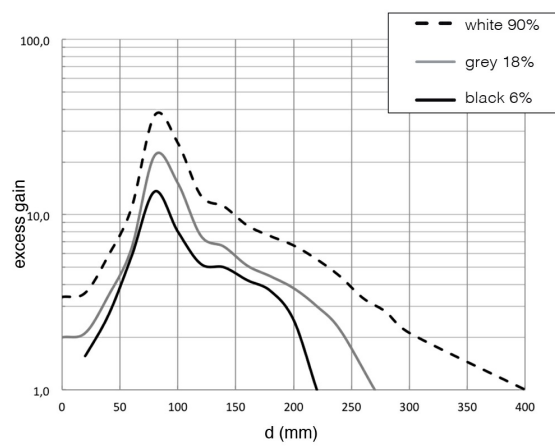
## Dimensione Spot



## Disassamento Parallelo



## Eccesso di Guadagno



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