

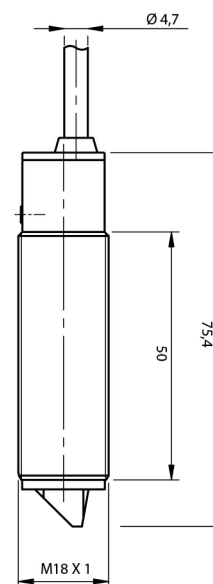
# FBL4/BN-3A

cylindrical photosensors



Micro Detectors

Italian Sensors Technology



## Detection properties

Nominal sensing distance 200mm (focalized 100mm) white target 90% Kodak 200x200mm

Thermal drift of Sr  $\leq 10\%$  Sr

Repeat Accuracy 5%

Sensitivity adjustment Teach-in

## Application

Function Principle Diffuse reflection (short distance,  $\leq 200\text{mm}$ )

Optic position  $90^\circ$

## Outputs

Output type NPN

Output Function NO+NC

Switching frequency 800Hz

## 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	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=75,4mm
Weight	110g
Housing Material	Nickel plated brass / PA12 cable exit
Connections	2m PVC cable
Active Head Material	Glass
Tightening torque	25Nm
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

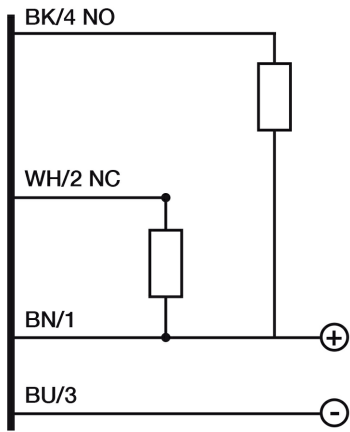
## Accessories

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

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