

FALN/BN-0A

cylindrical photosensors

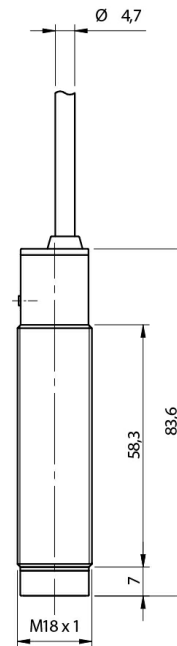


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance 20m with RL110 ; 30m with RL201 , 5m with RL100D

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

Repeat Accuracy 5%

Sensitivity adjustment Teach-in

Application

Function Principle Polarized

Optic position Axial

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	Green power supply/yellow (LightON EG≥2)/yellow flashing (LightON 1
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=67,5mm
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

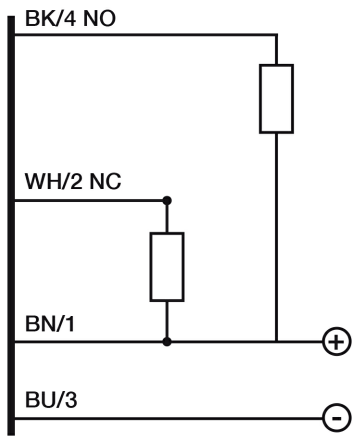
Test/Approvals

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

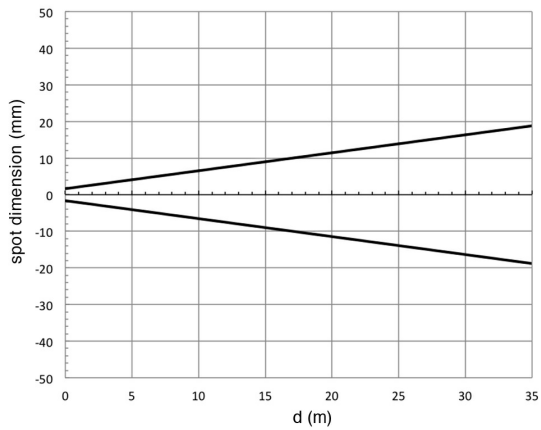
Supplied Accessories	nuts M18 x 1, screwdriver
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ELECTRICAL DIAGRAMS OF THE CONNECTIONS

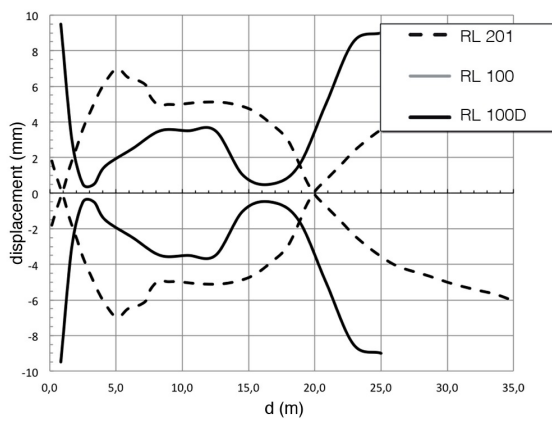


RESPONSE CURVES

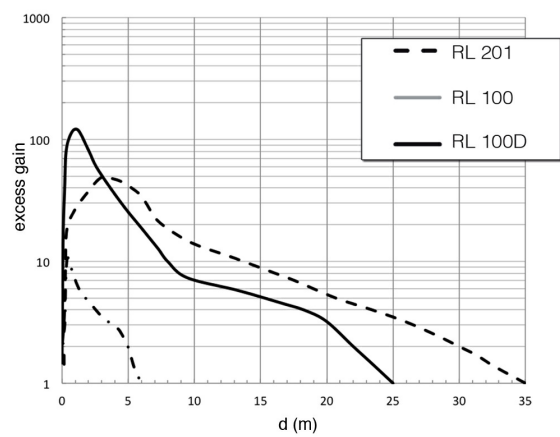
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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