

FQRL/BP-0E

cylindrical photosensors

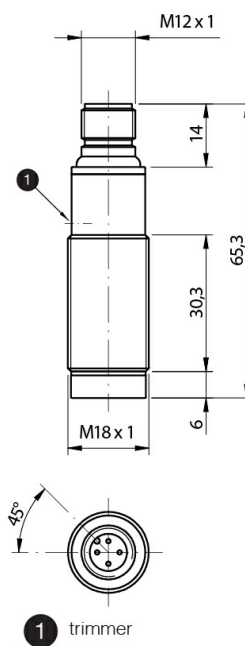


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance 0,1...1,5m with RL113G or RL116 reflector

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

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Application

Function Principle Transparent object

Optic position Axial

Outputs

Output type PNP

Output Function NO+NC

Switching frequency 250Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤30mA
Load current	≤50mA
Leakage current	≤10μA
Output voltage drop	2V max. IL =50 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 (660 nm)
Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Dimensions	M18 x 1 /L =66,3mm
Weight	30g
Housing Material	PBT
Connections	M12 plug
Active Head Material	PC
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (Without freeze)
Diameter/Dimension	M18

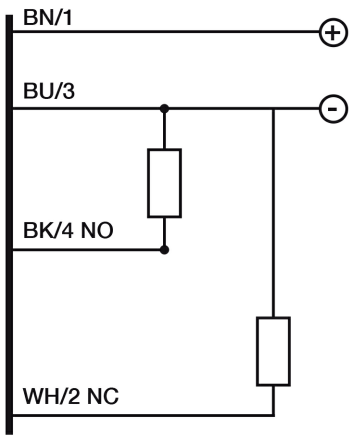
Test/Approvals

Approvals	CE,
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
----------------------	---------------------------

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

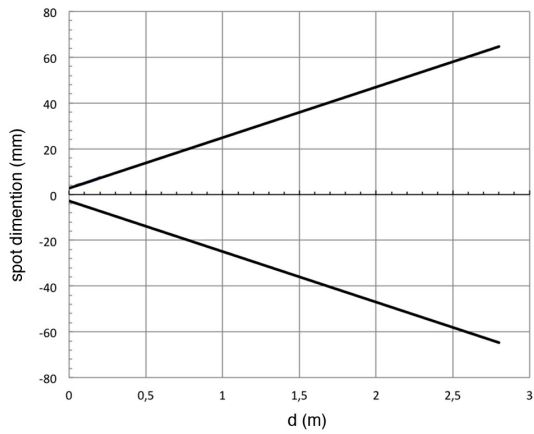


CONNECTOR

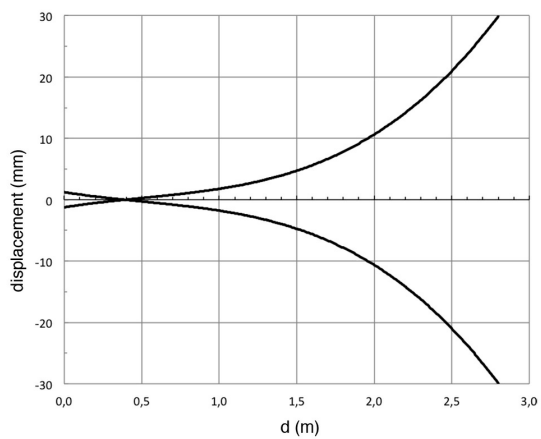


RESPONSE CURVES

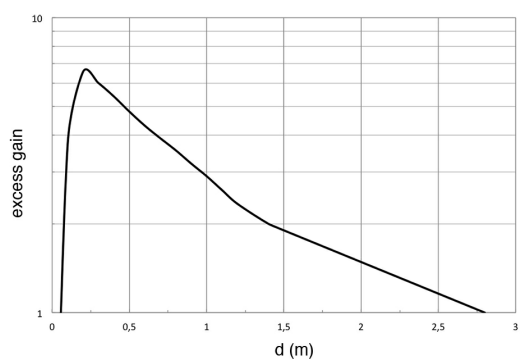
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



M.D. Micro Detectors S.p.A.

Strada S.Caterina, 235

41122 Modena (MO)

Tel. 059 420411

Fax 059 253973

E-mail info@microdetectors.com

date of printing

16/09/2021 11:05:47