

QFR8/BP-1F

cubic photosensors

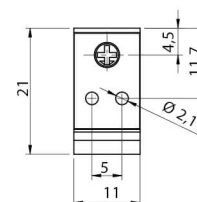
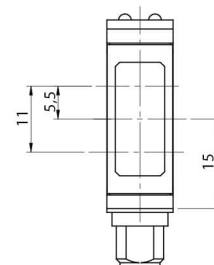
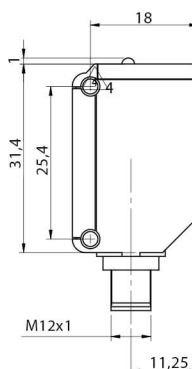


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance 1000mm white target 90% Kodak 200x200mm

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Application

Function Principle Diffuse reflection (long distance, >600mm)

Notes White target 90% Kodak 200x200mm

Emitter/Receiver Emitter/Receiver

Optic position 90°

Outputs

Output type PNP

Output Function NO+NC

Switching frequency 1kHz

Electrical data

Operating Voltage 10-30Vdc

No-Load supply current ≤25mA

Load current ≤100mA

Leakage current	≤100μA
Output voltage drop	2V max. IL =100 mA
Max ripple content	10%
LED indicators	Yellow (status output) , green (power on, excess gain)
Time delay before availability	≤30ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	Red (617nm)
Interference to external light	≤10000lux
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	31,4x21x11mm
Weight	65g
Housing Material	Stainless steel 316L
Connections	M8 Plug 4pin
Active Head Material	PPSU
Operating temperature	- 25°C...+ 60° C (Without freeze)
Storage temperature	-40° ... +70°C
Diameter/Dimension	Cubic

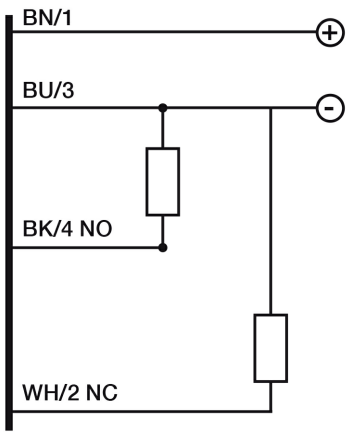
Test/Approvals

Approvals	CE cULus, ECOLAB
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP68, IP69K

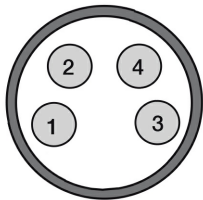
Accessories

Supplied Accessories Mouting bracket screwdriver

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

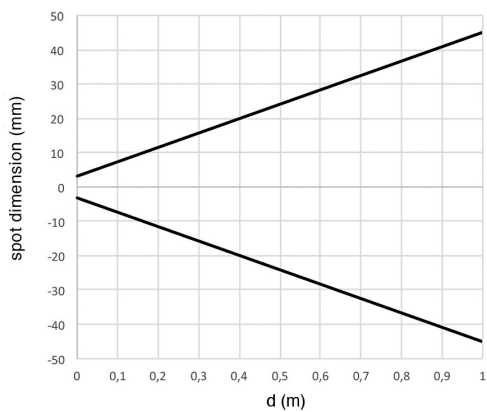


CONNECTOR

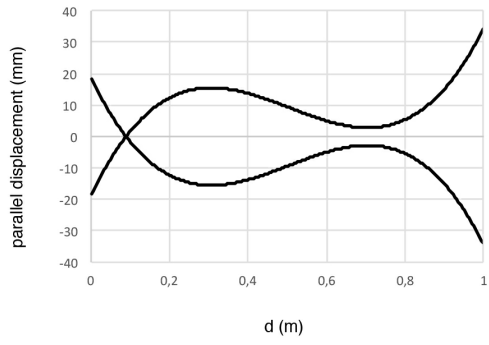


RESPONSE CURVES

Dimensione Spot



Disassamento Parallelo



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