

# QMRS/OP-0F

cubic photosensors

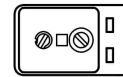
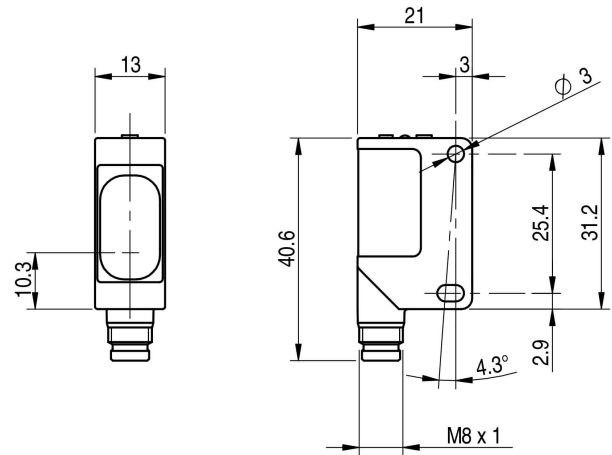


Micro Detectors

Italian Sensors Technology



Indicative image



## Detection properties

Nominal sensing distance 30..200mm white target 90% Kodak 200x200mm

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

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

## Application

Function Principle Background suppression

Notes White target 90% Kodak 200x200mm

Optic position 90°

## Outputs

Output type PNP

Output Function Lon/Don selectable

Switching frequency 1kHz

## Electrical data

Operating Voltage 10...30Vdc

No-Load supply current  $\leq 30\text{mA}$

Load current  $\leq 100\text{mA}$

Leakage current	≤10μA
Output voltage drop	2V max. IL =100 mA
Max ripple content	10%
LED indicators	Yellow (status output)
Time delay before availability	≤200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	Red (660 nm)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
Impulsive Overvoltage Protection	Yes

## Mechanical data

Dimensions	40,6x21x13mm
Weight	10g
Housing Material	PA66
Connections	M8 Plug 4pin
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (Without freeze)
Storage temperature	- 30°C...+ 80° C (Without freeze)
Diameter/Dimension	Cubic

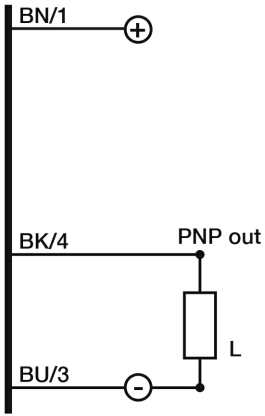
## Test/Approvals

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

---

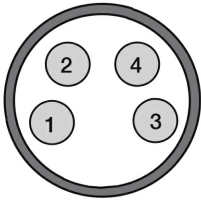
# ELECTRICAL DIAGRAMS OF THE CONNECTIONS

---



# CONNECTOR

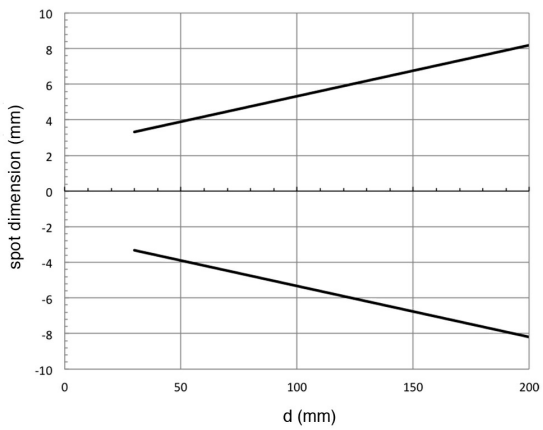
---



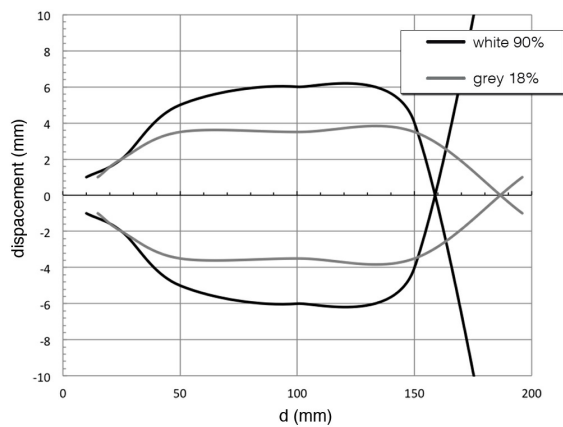
# RESPONSE CURVES

---

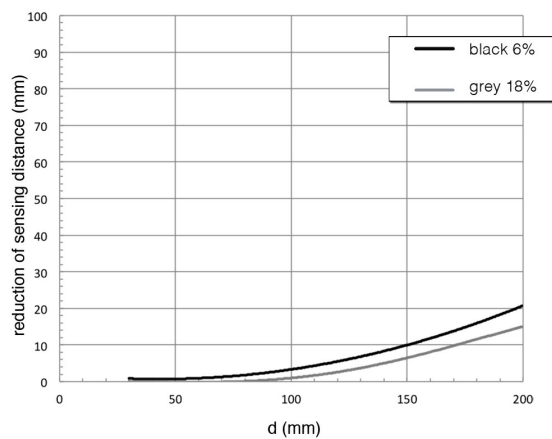
## Dimensione Spot



## Disassamento Parallelo



## Riduzione distanza di rilevamento



**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](mailto:info@microdetectors.com)

**date of printing**

20/11/2020 16:00:00