

QMRHD/0P-0F

cubic photosensors

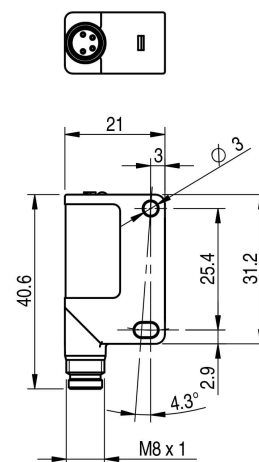
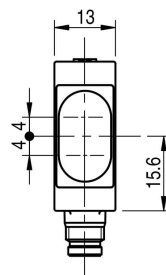


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance	20m
Thermal drift of Sr	$\leq 10\%$ Sr (ricevitore)
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Emitter + Receiver
Optic position	90°
Emitter Code	QMRH/00-0F
Receiver Code	QMRD/0P-0F

Outputs

Output type	PNP
Output Function	LO/DO selezionabile (ricevitore)
Switching frequency	2kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 30 mA

Load current	≤100mA (ricevitore)
Leakage current	≤10μA (ricevitore)
Output voltage drop	2V max. IL =100 mA (ricevitore)
Max ripple content	10%
LED indicators	Giallo (emettitore acceso) - Giallo (stato output ricevitore) , verde (eccesso di guadagno ricevitore)
Time delay before availability	≤200ms
Short-circuit protection	Sì
Reverse Polarity Protection	Sì
Emission	Led Rosso
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
Impulsive Overvoltage Protection	Sì

Mechanical data

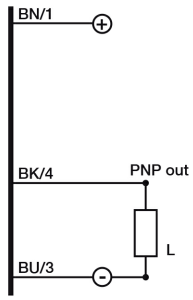
Dimensions	40,6x21x13mm
Weight	10g (emettitore) + 10g (ricevitore)
Housing Material	PA66
Connections	M8 Plug 4pin
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (Senza condensa)
Storage temperature	- 30°C...+ 80° C (Senza condensa)
Diameter/Dimension	Cubic

Test/Approvals

Approvals	CE cULus
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibrazioni IEC 60068-2-6 / Urti IEC 60068-2-27
Degree of protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

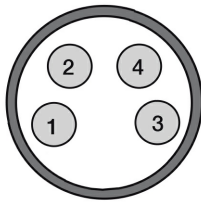
QM**/0P



QM*H

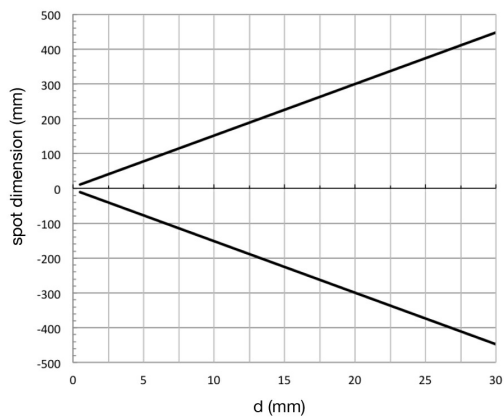


CONNECTOR

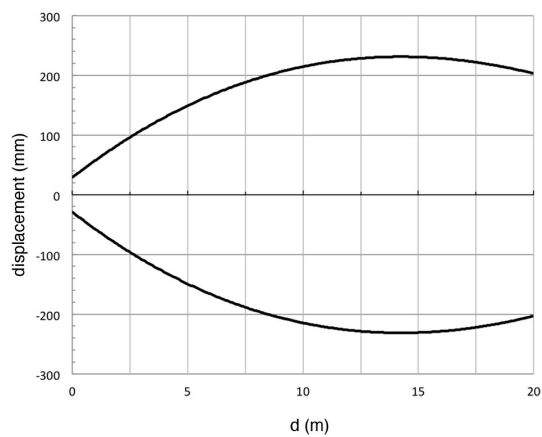


RESPONSE CURVES

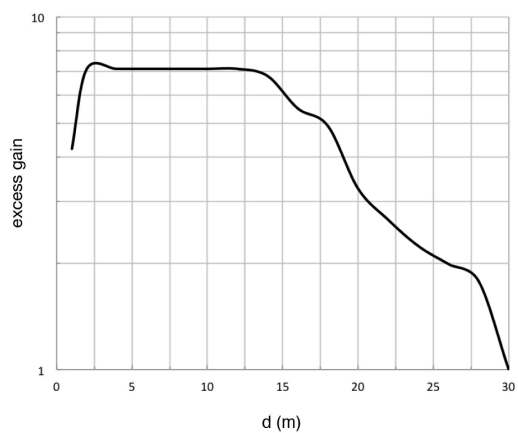
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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