



QMRS

QMRS/0P-0FPT

Photo.Min,PNP-NO/NC,M8,BGS

MINIATURIZED PHOTOELECTRIC SENSORS WITH HIGH PERFORMANCE

TECHNICAL FEATURES

Detection properties

Nominal sensing distance 200mm

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

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Minimum sensing distance (blind zone) 30mm

Application

Function Principle Background suppression

Notes white target Kodak 90% 200 x 200mm

Optic position Radial 90°

Outputs

Output type	PNP L/D Selectable
Output Function	L/D Selectable
Switching frequency	1kHz
Response time	500 μ s

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 30 mA
Load current	≤ 100 mA
Leakage current	≤ 10 μ A
Output voltage drop	≤ 2 V@Iload=100mA
Max ripple content	≤ 10 %
LED indicators	Yellow (status output)
Time delay before availability	≤ 200 ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red (630nm)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
Impulsive Overvoltage Protection	Yes

Mechanical data

Housing Material	PA66
Connections	M8 plug 4pin
Active Head Material	PMMA
Tightening torque	1Nm
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

Generical Data

Dimensions	40,6x21x13mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

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