



QMRS

QMRS/0N-0AVE80

Photo.Min, NPN-NO/NC, Pigtail M12, 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 Blackground suppression

Notes white target Kodak 90% 200 x 200mm

Optic position Radial 90°

Outputs

Output type	NPN L/D Selectable
Output Function	L/D Selectable
Switching frequency	1kHz
Response time	500μs

Electrical data	
Operating Voltage	10...30VDC
No-Load supply current	≤ 30mA
Load current	≤100mA
Leakage current	≤10μA
Output voltage drop	≤2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Yellow (status output)
Time delay before availability	≤200ms
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
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Connections	200mm PVC cable + M12 plug
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Active Head Material	PMMA
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Tightening torque	1Nm
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Storage temperature	- 30°C...+ 80° C (Without freeze)
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Diameter/Dimension	Cubic
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Test/Approvals

EMC compatibility	EN 60947-5-2
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Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
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Generical Data

Dimensions	31,2x21x13mm
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Operating Temperature	- 25°C...+ 70°C (Without freeze)
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Mechanical Protection	IP67
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Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

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