



QM

QMR7/0N-0AVE80

Photo.Min, NPN-NO/NC, Pigtail M12, Diffuse

TECHNICAL FEATURES

Detection properties

Nominal sensing distance 400mm

Thermal drift of S_r ≤10% S_r

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Application

Function Principle Diffuse reflection (medium distance, ≤600mm)

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	2kHz
Response time	250μs

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), green (stability)
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
Active Head Material	PMMA
Tightening torque	1Nm
Storage temperature	- 30°C...+ 80° C (Without freeze)
Diameter/Dimension	Cubic

Test/Approvals

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

Generical Data

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

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