



QM

QMR8/0P-0AVG80

Photo.Min,PNP-NO/NC,Pigtail M8,Diffuse

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1m
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Diffuse reflection (long distance, >600mm)
Notes	white target Kodak 90% 400 x 400mm
Optic position	Radial 90°

Outputs

Output type	PNP 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), 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

Connections	200mm PVC cable + 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
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

Datasensing S.r.l.

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

**date of
printing**
10/08/2026
06:11:16