



QM

QMR7/0P-0AVE80

Photo.Minis,PNP-NO/NC,Pigtail M12,Diffuse

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance 400mm

Thermal drift of S<sub>r</sub> ≤10% S<sub>r</sub>

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 PNP 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 |
|------------------|------|

|                      |                                   |
|----------------------|-----------------------------------|
| 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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**date of  
printing**  
10/08/2026  
07:32:44