



QM

QMRHD/0P-0AVE80

Photo.Minis,PNP-NO/NC,Pigtail M12,E + R

## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 20m            |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | 5%             |
| Sensitivity adjustment   | Trimmer        |

### Application

|                    |                      |
|--------------------|----------------------|
| Function Principle | Emitter and Receiver |
| 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           | ≤45mA                                            |
| 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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