



**QM**

**QM19/0P-0AVE80**

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

## TECHNICAL FEATURES

### Detection properties

|                          |         |
|--------------------------|---------|
| Nominal sensing distance | 1,5m    |
| Thermal drift of Sr      | ≤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       | 500 $\mu$ s    |

#### Electrical data

|                                  |  |
|----------------------------------|--|
| Operating Voltage                | 10...30VDC                                       |
| No-Load supply current           | $\leq 30$ mA                                     |
| Load current                     | $\leq 100$ mA                                    |
| Leakage current                  | $\leq 10$ $\mu$ A                                |
| Output voltage drop              | $\leq 2$ V@Iload=100mA                           |
| Max ripple content               | $\leq 10$ %                                      |
| LED indicators                   | Yellow (status output), green (stability)        |
| Time delay before availability   | $\leq 200$ ms                                    |
| Short-circuit protection         | Yes  |
| Reverse Polarity Protection      | Yes  |
| Emission                         | LED Infrared (850nm)                             |
| 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                             |

### **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**  
05/05/2026  
17:20:19