



Indicative image

**PHOTOELECTRIC FORK FOR OBJECTS DETECTION WITHOUT REGULATION**

- Plug and Play without adjustment
- High power RED LED emission
- Minimum size object detection 0,8 mm
- Metal housing
- Connettore M8 a 3 pins
- LED Indicator high visibility
- Switching frequency 4 KHz
- -10...+60 °C operating temperature range
- 3 wires: PNP or NPN, LO or DO

**Detection properties**

|                           |       |
|---------------------------|-------|
| Nominal sensing distance  | 50mm  |
| minimum detectable object | 0,8mm |
| Si                        | Yes   |
| Sensitivity adjustment    | No    |

**Outputs**

|                     |      |
|---------------------|------|
| Output type         | NPN  |
| Output Function     | LO   |
| Switching frequency | 4kHz |

**Electrical data**

|                        |                     |
|------------------------|---------------------|
| Operating Voltage      | 12...24Vdc          |
| No-Load supply current | ≤ 20mA              |
| Load current           | 100mA               |
| Output voltage drop    | ≤ 1,5V @ IL =100 mA |
| Max ripple content     | ≤ 10%               |

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Time delay before availability | 150ms                                          |
| Short-circuit protection       | Yes                                            |
| Reverse Polarity Protection    | Yes                                            |
| Emission                       | Red LED, modulated                             |
| Interference to external light | 5000lux(incandescent lamp), 10000lux(sunlight) |

#### Mechanical data

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Dimensions            | Width slot detection 50mm - Depth slot detection 60mm |
| Weight                | 80g                                                   |
| Housing Material      | Painted aluminium                                     |
| Connections           | M8 plug 3 pin                                         |
| Active Head Material  | Polyamide/glass                                       |
| Operating temperature | - 10°C...+ 60°C                                       |
| Storage temperature   | - 40°C...+ 80°C                                       |
| Width slot detection  | 50mm                                                  |
| Depth slot detection  | 60mm                                                  |

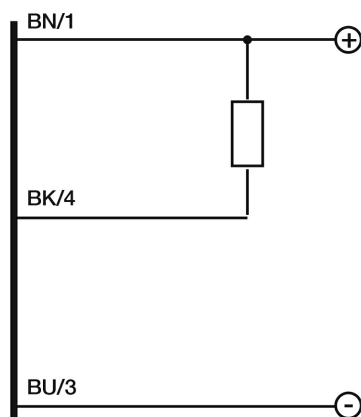
#### Test/Approvals

|                      |              |
|----------------------|--------------|
| Approvals            | CE UL        |
| EMC compatibility    | EN 60947-5-2 |
| Degree of protection | IP67         |

#### Generical Data

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Dimensions            | Width slot detection 50mm - Depth slot detection 60mm |
| Operating Temperature | - 10°C...+ 60°C                                       |
| Mechanical Protection | IP67                                                  |

## ELECTRICAL DIAGRAMS OF THE CONNECTIONS



## CONNECTOR



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**Datasensing S.r.l.**

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

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