



# FC5

## FC5R/DN-1212-1F

**Slot 120mm width RED LED NPN**  
**PHOTOELECTRIC FORK FOR OBJECTS DETECTION**  
**WITHOUT REGULATION**

## OVERVIEW

- 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



## TECHNICAL FEATURES

### Detection properties

|                          |       |
|--------------------------|-------|
| Nominal sensing distance | 120mm |
|--------------------------|-------|

|                           |       |
|---------------------------|-------|
| minimum detectable object | 0,8mm |
|---------------------------|-------|

|    |     |
|----|-----|
| Si | Yes |
|----|-----|

|                        |    |
|------------------------|----|
| Sensitivity adjustment | No |
|------------------------|----|

|                                |                        |
|--------------------------------|------------------------|
| Application                    |                        |
| Function Principle             | Photoelectric slot     |
| Outputs                        |                        |
| Output type                    | NPN Don                |
| Output Function                | Don                    |
| Switching frequency            | 4kHz                   |
| Response time                  | 125μs                  |
| Electrical data                |                        |
| Operating Voltage              | 12...24VDC             |
| No-Load supply current         | ≤ 20mA                 |
| Load current                   | ≤100mA                 |
| Output voltage drop            | ≤1,5V@Iload=100mA      |
| Max ripple content             | ≤10%                   |
| LED indicators                 | Yellow (status output) |
| Time delay before availability | ≤200ms                 |
| Short-circuit protection       | Yes                    |
| Reverse Polarity Protection    | Yes                    |
| Emission                       | LED Red                |
|                                |                        |

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Interference to external light | 5000lux (incandescent lamp), 10000lux (sunlight) |
|--------------------------------|--------------------------------------------------|

Mechanical data

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Dimensions            | Width slot detection 120mm - Depth slot detection 124.3mm |
| Housing material      | Painted aluminium                                         |
| Weight                | 141g                                                      |
| Connections           | M8 plug 3pin                                              |
| Active Head Material  | Polyamide/glass                                           |
| Operating temperature | - 10°C...+ 60°C                                           |
| Storage temperature   | - 40°C...+ 80°C                                           |
| Width slot detection  | 120mm                                                     |
| Depth slot detection  | 120mm                                                     |

Test/Approvals

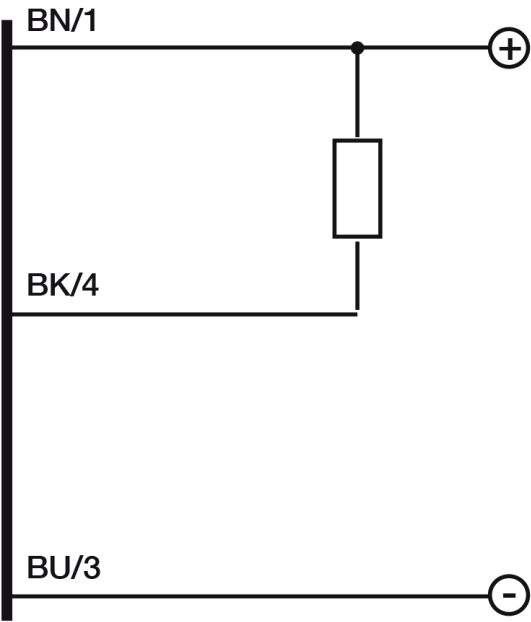
|                      |              |
|----------------------|--------------|
| Approvals            | CE UL        |
| EMC compatibility    | EN 60947-5-2 |
| Degree of protection | IP67         |

Generical Data

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Dimensions            | Width slot detection 120mm - Depth slot detection 124.3mm |
| Operating Temperature | - 10°C...+ 60°C (Without freeze)                          |
| Mechanical Protection | IP67                                                      |

# CONNECTIONS

Eletrical diagram

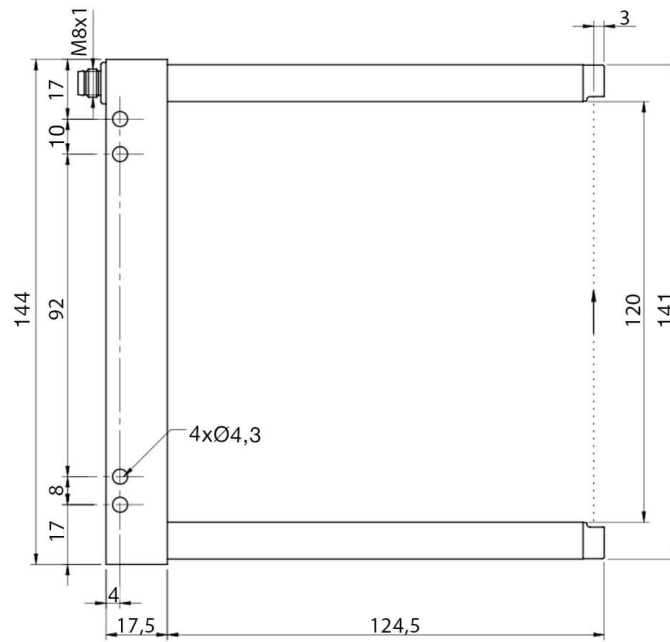


Connector



# OTHERS

## Dimensions



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