



# FC6

## FC6L/0B-0304-1F

Slot 30mm width 42mm depth ADJ  
PHOTOELECTRIC FORK FOR OBJECTS DETECTION WITH  
REGULATION

## OVERVIEW

- Simple and accurate adjustment manually by -/+ buttons
- Infrared emission; LASER emission class 1
- Metal housing
- Light/Dark switching, selectable by button
- Minimum size object detection 0,2 mm (FC6I) and 0,05 mm (FC6L)
- -20...+60 °C temperature range
- M8 connectors (4pins): PNP/NPN, LO/DO
- Switching frequency 10 kHz



## TECHNICAL FEATURES

### Detection properties

|                           |          |
|---------------------------|----------|
| Nominal sensing distance  | 30mm     |
| minimum detectable object | 0.05mm   |
| Sensitivity adjustment    | Teach-in |

### Application

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Function Principle             | Photoelectric slot                                       |
| Outputs                        |                                                          |
| Output type                    | NPN / PNP L/D Selectable                                 |
| Output Function                | L/D Selectable                                           |
| Switching frequency            | 10kHz                                                    |
| Response time                  | 50 μs                                                    |
| Electrical data                |                                                          |
| Operating Voltage              | 12...24VDC                                               |
| No-Load supply current         | ≤ 40mA                                                   |
| Load current                   | ≤100mA                                                   |
| Output voltage drop            | ≤2V@Iload=100mA                                          |
| Max ripple content             | ≤10%                                                     |
| LED indicators                 | Yellow (status output), Red (adjustment or block keypad) |
| Time delay before availability | ≤200ms                                                   |
| Short-circuit protection       | Yes                                                      |
| Reverse Polarity Protection    | Yes                                                      |
| Emission                       | LASER Red (670nm) class1                                 |
| Interference to external light | 5000lux (incandescent lamp), 10000lux (sunlight)         |

## Mechanical data

|            |                                                       |
|------------|-------------------------------------------------------|
| Dimensions | Width slot detection 30mm - Depth slot detection 42mm |
|------------|-------------------------------------------------------|

|                  |                   |
|------------------|-------------------|
| Housing material | Painted aluminium |
|------------------|-------------------|

|        |     |
|--------|-----|
| Weight | 66g |
|--------|-----|

|             |              |
|-------------|--------------|
| Connections | M8 plug 4pin |
|-------------|--------------|

|                      |                 |
|----------------------|-----------------|
| Active Head Material | Polyamide/glass |
|----------------------|-----------------|

|                       |                 |
|-----------------------|-----------------|
| Operating temperature | - 20°C...+ 50°C |
|-----------------------|-----------------|

|                     |                 |
|---------------------|-----------------|
| Storage temperature | - 30°C...+ 80°C |
|---------------------|-----------------|

|                      |      |
|----------------------|------|
| Width slot detection | 30mm |
|----------------------|------|

|                      |      |
|----------------------|------|
| Depth slot detection | 42mm |
|----------------------|------|

## Test/Approvals

|           |    |
|-----------|----|
| Approvals | CE |
|-----------|----|

|                   |              |
|-------------------|--------------|
| EMC compatibility | EN 60947-5-2 |
|-------------------|--------------|

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|----------------------|------|

## Generical Data

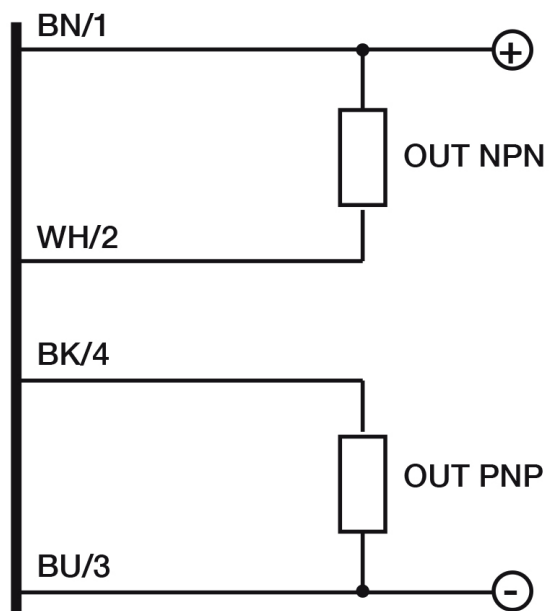
|            |                                                       |
|------------|-------------------------------------------------------|
| Dimensions | Width slot detection 30mm - Depth slot detection 42mm |
|------------|-------------------------------------------------------|

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | - 10°C...+ 60°C (Without freeze) |
|-----------------------|----------------------------------|

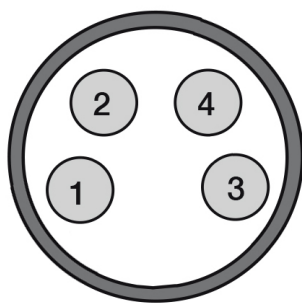
|                       |      |
|-----------------------|------|
| Mechanical Protection | IP65 |
|-----------------------|------|

# CONNECTIONS

Electrical diagram



Connector



# OTHERS

Dimensions

