



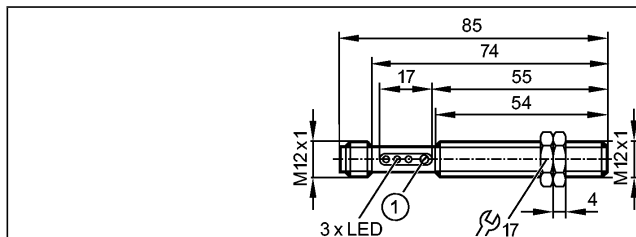
Photoelectric sensors

## OF5012

OFT-FPKG/US  
Diffuse reflection sensor  
Threaded type M12 x 1  
Connector

Function check output

Range 1...200mm  
(referred to white paper 200 x 200 mm)  
adjustable



1: with pot.



Made in Germany

### Electrical design

#### Output

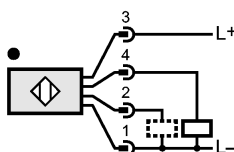
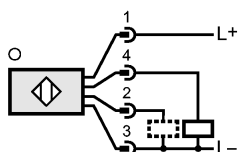
|                             |         |
|-----------------------------|---------|
| Light spot diameter         | [mm]    |
| Operating voltage           | [V]     |
| Current rating              |         |
| Switching output            | [mA]    |
| Function check output       | [mA]    |
| Short-circuit protection    |         |
| Reverse polarity protection |         |
| Overload protection         |         |
| Voltage drop                |         |
| Switching output            | [V]     |
| Function check output       | [V]     |
| Current consumption         | [mA]    |
| Switching frequency         | [Hz]    |
| Type of light               |         |
| Ambient temperature         | [°C]    |
| Protection                  |         |
| EMC                         |         |
| MTTF                        | [Years] |
| Housing materials           |         |
| Lens material               |         |
| Function display            |         |
| Switching status            | LED     |
| Operation                   | LED     |
| Function                    | LED     |
| Connection                  |         |
| Weight                      | [kg]    |
| Accessories (included)      |         |

### DC PNP

#### light-on / dark-on programmable

|                             |                          |
|-----------------------------|--------------------------|
| Light spot diameter         | 92 ( at maximum range )  |
| Operating voltage           | 10...36 DC               |
| Current rating              | 200                      |
| Switching output            | 10                       |
| Short-circuit protection    | pulsed                   |
| Reverse polarity protection | yes                      |
| Overload protection         | yes                      |
| Voltage drop                | < 2.5                    |
| Function check output       | < 3.5                    |
| Current consumption         | < 35                     |
| Switching frequency         | 320                      |
| Type of light               | Infrared light 880 nm    |
| Ambient temperature         | -25...60                 |
| Protection                  | IP 65, II                |
| EMC                         | EN 60947-5-2             |
|                             | EN 55011: class B        |
| MTTF                        | 607                      |
| Housing materials           | brass nickel-plated      |
| Lens material               | PMMA                     |
| Function display            |                          |
| Switching status            | yellow                   |
| Operation                   | green                    |
| Function                    | red                      |
| Connection                  | M12 connector            |
| Weight                      | 0.047                    |
| Accessories (included)      | 2 lock nuts, screwdriver |

### Wiring



2: function check

**OF5012**

**Excess gain graphs**

