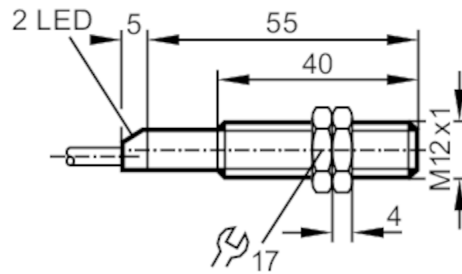




## Retro-reflective sensor

OFP-FPKG



### Application

|                    |                         |
|--------------------|-------------------------|
| Function principle | Retro-reflective sensor |
|--------------------|-------------------------|

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | < 30       |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 660        |

### Outputs

|                                                 |      |                                       |
|-------------------------------------------------|------|---------------------------------------|
| Electrical design                               |      | PNP                                   |
| Output function                                 |      | light-on/dark-on mode; (programmable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                   |
| Permanent current rating of switching output DC | [mA] | 200                                   |
| Switching frequency DC                          | [Hz] | 320                                   |
| Short-circuit protection                        |      | yes                                   |
| Type of short-circuit protection                |      | pulsed                                |
| Overload protection                             |      | yes                                   |

### Detection zone

|                                       |      |                                              |
|---------------------------------------|------|----------------------------------------------|
| Range referred to prismatic reflector | [m]  | 0.2...0.8; (Prismatic reflector Ø 80 E20005) |
| Max. light spot diameter              | [mm] | 70                                           |
| Light spot dimensions refer to        |      | at maximum range                             |
| Polarisation filter available         |      | yes                                          |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 895     |

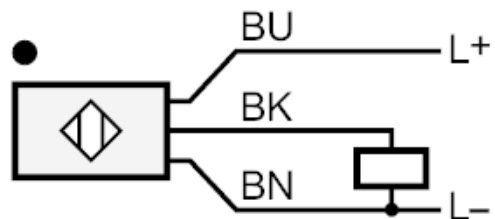
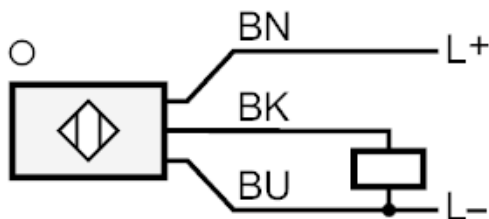
# OF5024



## Retro-reflective sensor

OFP-FPKG

| Mechanical data                           |                  |                     |
|-------------------------------------------|------------------|---------------------|
| Weight                                    | [g]              | 93.8                |
| Housing                                   |                  | threaded type       |
| Dimensions                                | [mm]             | M12 x 1 / L = 60    |
| Thread designation                        |                  | M12 x 1             |
| Materials                                 |                  | brass nickel-plated |
| Lens material                             |                  | PMMA                |
| Displays / operating elements             |                  |                     |
| Display                                   | switching status | 1 x LED, yellow     |
|                                           | operation        | 1 x LED, green      |
| Accessories                               |                  |                     |
| Accessories (supplied)                    |                  | lock nuts: 2 x      |
| Remarks                                   |                  |                     |
| Pack quantity                             |                  | 1 pcs.              |
| Electrical connection                     |                  |                     |
| Cable: 2 m, PUR; 3 x 0.34 mm <sup>2</sup> |                  |                     |
| Connection                                |                  |                     |



|      |                |
|------|----------------|
|      | Core colours : |
| BN = | brown          |
| BU = | blue           |
| BK = | black          |



## Retro-reflective sensor

OFP-FPKG

### Diagrams and graphs

excess gain graph

