



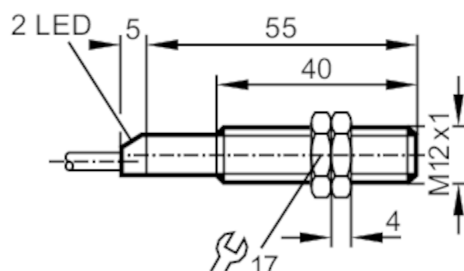
## Retro-reflective sensor

OFP-FNKG

Article no longer available - archive entry

Alternative articles: OF5062

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|               |               |
|---------------|---------------|
| Type of light | red light     |
| Housing       | threaded type |

### Application

|                    |                         |
|--------------------|-------------------------|
| Special feature    | polarisation filter     |
| 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                               |      | NPN                                      |
| Output function                                 |      | light-on/dark-on mode; (parameterisable) |
| 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

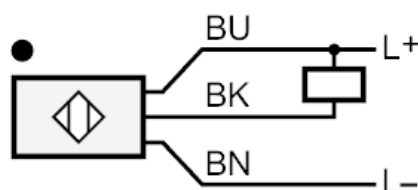
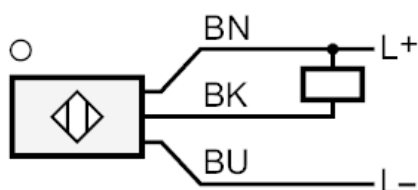
|                                       |      |                                              |
|---------------------------------------|------|----------------------------------------------|
| Range                                 | [m]  | 0.2...0.8; (Prismatic reflector Ø 80 E20005) |
| Range referred 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                                          |



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| Operating conditions          |                  |                     |
|-------------------------------|------------------|---------------------|
| Ambient temperature           | [°C]             | -25...60            |
| Protection                    |                  | IP 67               |
| Tests / approvals             |                  |                     |
| EMC                           | EN 60947-5-2     |                     |
| Mechanical data               |                  |                     |
| Weight                        | [g]              | 0.091               |
| 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                   |                  |                     |
| Items supplied                |                  | lock nuts: 2        |
| Remarks                       |                  |                     |
| Pack quantity                 |                  | 1 pcs.              |
| Electrical connection         |                  |                     |
| Cable: 2 m, PUR; 3 x 0.34 mm² |                  |                     |
| Connection                    |                  |                     |



Core colours :

BN = brown

BU = blue

BK = black



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### Diagrams and graphs

excess gain graph

