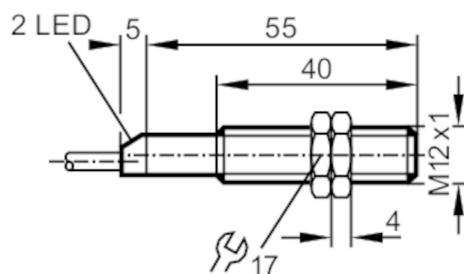


# OF5032



## Diffuse reflection sensor

OFT-FPKG/IV4A/6M



### Product characteristics

|               |                |
|---------------|----------------|
| Type of light | Infrared light |
| Housing       | Threaded type  |

### Application

|                    |                           |
|--------------------|---------------------------|
| Function principle | Diffuse reflection sensor |
|--------------------|---------------------------|

### Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 10...36 DC     |
| Current consumption         | [mA] | < 30           |
| Protection class            |      | II             |
| Reverse polarity protection |      | yes            |
| Type of light               |      | Infrared light |
| Wave length                 | [nm] | 880            |

### 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                |      | yes (non-latching)                    |
| Overload protection                             |      | yes                                   |

### Monitoring range

|                                |      |                                     |
|--------------------------------|------|-------------------------------------|
| Range                          | [mm] | 1...200; (white paper 200 x 200 mm) |
| Range adjustable               |      | no                                  |
| Max. light spot diameter       | [mm] | 92                                  |
| Light spot dimensions refer to |      | at maximum range                    |

### Operating conditions

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

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| Tests / approvals |              |         |
|-------------------|--------------|---------|
| EMC               | EN 60947-5-2 |         |
|                   | EN 55011     | class B |
| MTTF              | [years]      | 891     |

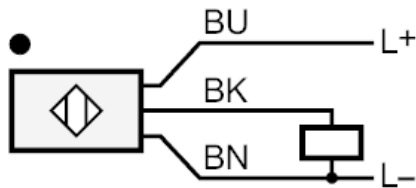
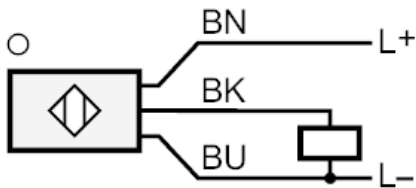
| Mechanical data    |      |                                 |
|--------------------|------|---------------------------------|
| Weight             | [g]  | 154.2                           |
| Housing            |      | Threaded type                   |
| Dimensions         | [mm] | M12 x 1 / L = 60                |
| Thread designation |      | M12 x 1                         |
| Material           |      | stainless steel (1.4571/316Ti ) |
| Lens material      |      | PMMA                            |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |
|                               | Power            | 1 x LED, green  |

| Accessories    |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |

| Remarks       |        |
|---------------|--------|
| Pack quantity | 1 pcs. |

| Electrical connection         |  |
|-------------------------------|--|
| Cable: 6 m, PUR; 3 x 0.34 mm² |  |
| Connection                    |  |



BN = Core colors : brown  
BU = blue  
BK = black



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### Diagrams and graphs

excess gain graph

