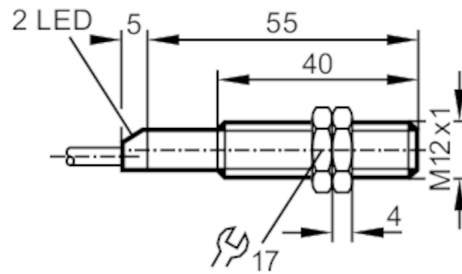


OF5010



Diffuse reflection sensor

OFT-FPKG



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 | | pulsed |
| Overload protection | | yes |

Detection zone

| | | |
|--------------------------------|------|-------------------------------------|
| 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 |

Tests / approvals

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

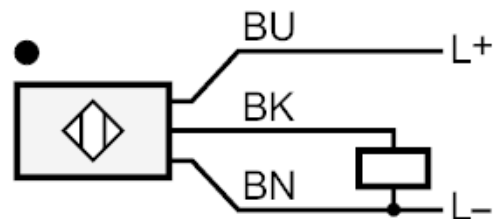
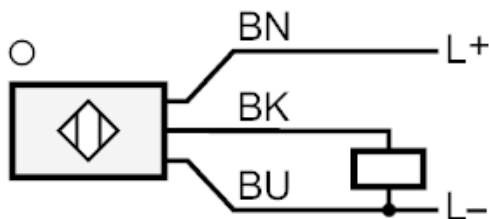
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Diffuse reflection sensor

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| Mechanical data | | |
|---|------------------|---------------------|
| Weight | [g] | 94 |
| 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 ² | | |
| Connection | | |



Core colours :

BN = brown
BU = blue
BK = black

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Diffuse reflection sensor

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Diagrams and graphs

excess gain graph

