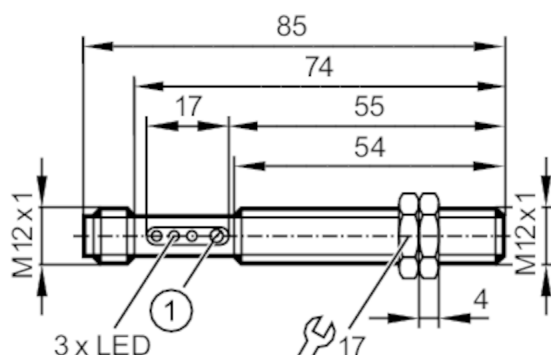


## Through-beam sensor receiver

OFE-FPKG/US-100



1 potentiometer



## Product characteristics

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

## Application

|                    |                       |
|--------------------|-----------------------|
| Special feature    | Function check output |
| Function principle | Through-beam 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                                   |
| Function check output                                | yes                                   |
| Max. voltage drop of function check output [V]       | 3.5                                   |
| Max. current load for function check output [mA]     | 10                                    |
| 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

|                        |          |
|------------------------|----------|
| Transmitter / receiver | receiver |
| Range [m]              | < 4      |



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|                  |     |
|------------------|-----|
| Range adjustable | yes |
|------------------|-----|

| Operating conditions |  |
|----------------------|--|
|----------------------|--|

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
|---------------------|------|----------|

|            |       |
|------------|-------|
| Protection | IP 65 |
|------------|-------|

| Tests / approvals |  |
|-------------------|--|
|-------------------|--|

|     |              |
|-----|--------------|
| EMC | EN 60947-5-2 |
|-----|--------------|

|      |         |     |
|------|---------|-----|
| MTTF | [years] | 652 |
|------|---------|-----|

| Mechanical data |  |
|-----------------|--|
|-----------------|--|

|        |     |      |
|--------|-----|------|
| Weight | [g] | 40.7 |
|--------|-----|------|

|         |               |
|---------|---------------|
| Housing | threaded type |
|---------|---------------|

|            |      |                  |
|------------|------|------------------|
| Dimensions | [mm] | M12 x 1 / L = 74 |
|------------|------|------------------|

|                    |         |
|--------------------|---------|
| Thread designation | M12 x 1 |
|--------------------|---------|

|           |                                    |
|-----------|------------------------------------|
| Materials | housing: brass white bronze coated |
|-----------|------------------------------------|

|               |      |
|---------------|------|
| Lens material | PMMA |
|---------------|------|

| Displays / operating elements |  |  |
|-------------------------------|--|--|
|-------------------------------|--|--|

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

|           |                |
|-----------|----------------|
| operation | 1 x LED, green |
|-----------|----------------|

|          |              |
|----------|--------------|
| function | 1 x LED, red |
|----------|--------------|

| Accessories |  |
|-------------|--|
|-------------|--|

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

|              |
|--------------|
| screwdrivers |
|--------------|

| Remarks |  |
|---------|--|
|---------|--|

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

| Electrical connection |  |
|-----------------------|--|
|-----------------------|--|

Connector: 1 x M12; coding: A



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### Connection



2 Function check output

### Diagrams and graphs

excess gain graph

