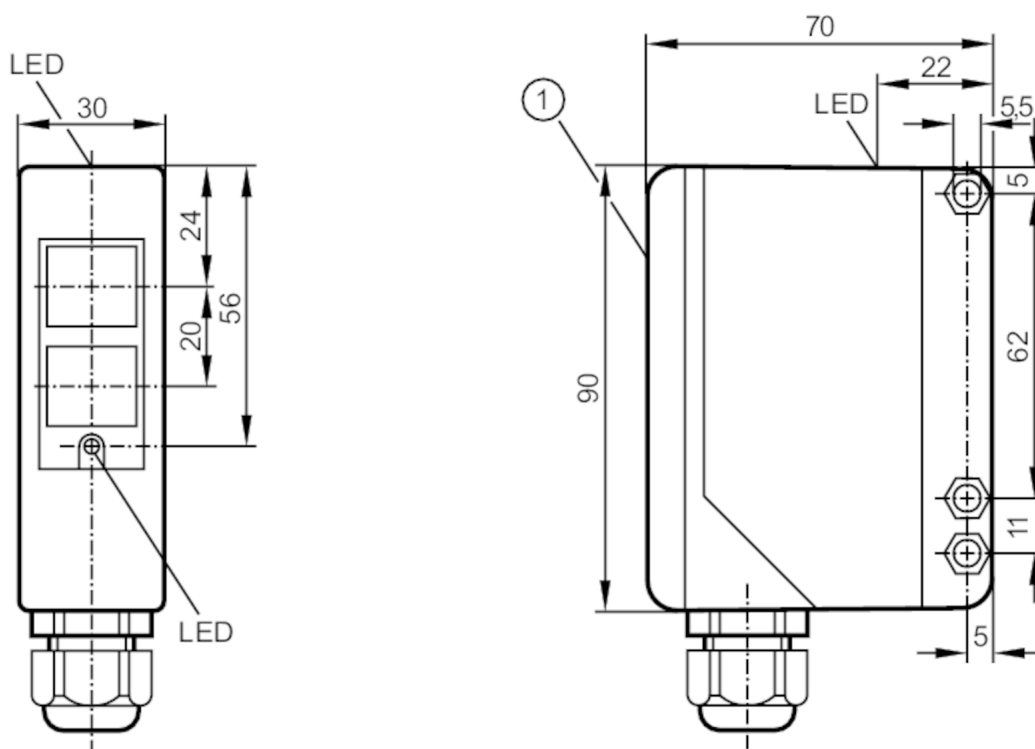




## Through-beam sensor receiver

OAE-FCKG



- 1 selection switch and potentiometer under cover  
Receiver in upper lens



### Product characteristics

|               |                |
|---------------|----------------|
| Type of light | Infrared light |
| Housing       | rectangular    |

### Application

|                    |                       |
|--------------------|-----------------------|
| System             | Function check output |
| Function principle | Through-beam sensor   |

### Electrical data

|                             |                |
|-----------------------------|----------------|
| Operating voltage [V]       | 10...36 DC     |
| Current consumption [mA]    | < 50           |
| Protection class            | II             |
| Reverse polarity protection | yes            |
| Type of light               | Infrared light |
| Wave length [nm]            | 880            |

### Outputs

|                                                  |                                       |
|--------------------------------------------------|---------------------------------------|
| Electrical design                                | PNP/NPN                               |
| Output function                                  | light-on/dark-on mode; (programmable) |
| Function check output                            | yes                                   |
| Max. current load for function check output [mA] | 10                                    |



## Through-beam sensor receiver

OAE-FCKG

|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| Permanent current rating of switching output DC | [mA] | 250                |
| Max. current load in dual output mode           | [mA] | 100                |
| Switching frequency DC                          | [Hz] | 300                |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

## Monitoring range

|                        |     |          |
|------------------------|-----|----------|
| Transmitter / receiver |     | receiver |
| Range                  | [m] | < 50     |
| Range adjustable       |     | yes      |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
| Protection          |      | IP 65    |

## Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 399     |

## Mechanical data

|                |      |              |
|----------------|------|--------------|
| Weight         | [g]  | 281          |
| Housing        |      | rectangular  |
| Dimensions     | [mm] | 90 x 30 x 70 |
| Material       |      | PPO modified |
| Lens material  |      | PMMA         |
| Lens alignment |      | Side sensing |

## Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |
|         | Function         | 1 x LED, red    |

## Accessories

|                |                                          |
|----------------|------------------------------------------|
| Items supplied | Angle bracket: 1, E20514<br>screwdrivers |
|----------------|------------------------------------------|

## Remarks

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

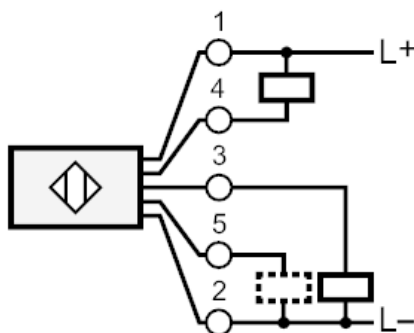
## Through-beam sensor receiver

OAE-FCKG

### Electrical connection

terminals: ...1.5 mm<sup>2</sup>; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5

### Connection



5 Function check output

### Diagrams and graphs

excess gain graph

