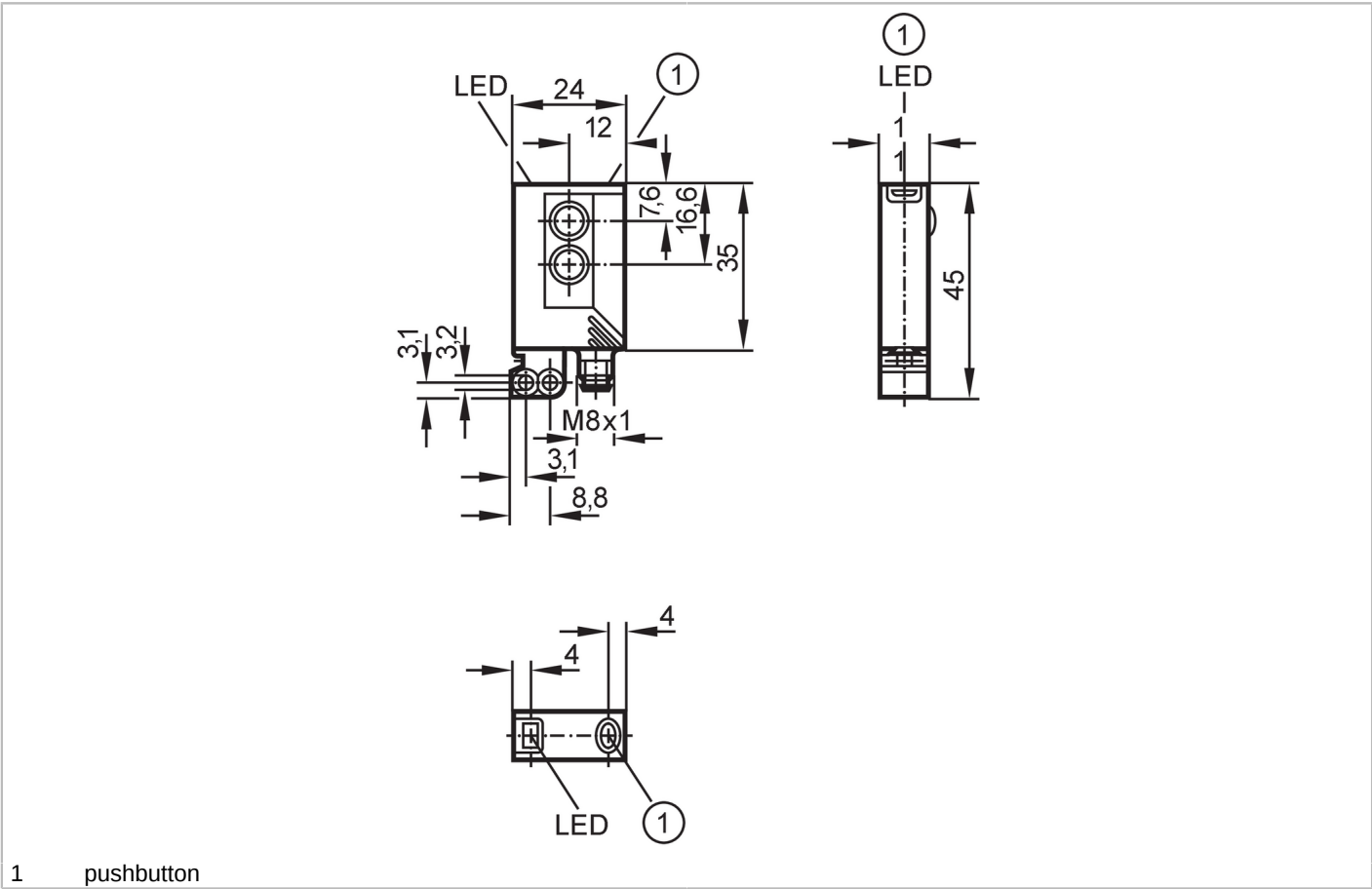




Diffuse reflection sensor

OJB-FPKG/FO/AS



| Product characteristics                         |      |                                       |
|-------------------------------------------------|------|---------------------------------------|
| Type of light                                   |      | red light                             |
| Housing                                         |      | rectangular                           |
| Application                                     |      |                                       |
| Function principle                              |      | Diffuse reflection sensor             |
| Application                                     |      | Industrial applications               |
| Electrical data                                 |      |                                       |
| Operating voltage                               | [V]  | 10...30 DC                            |
| Current consumption                             | [mA] | < 22                                  |
| Protection class                                |      | III                                   |
| Reverse polarity protection                     |      | yes                                   |
| Type of light                                   |      | red light                             |
| Wave length                                     | [nm] | 660                                   |
| 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                                   |

# OJ5000



## Diffuse reflection sensor

OJB-FPKG/FO/AS

|                                  |      |                    |
|----------------------------------|------|--------------------|
| Switching frequency DC           | [Hz] | 2000               |
| Short-circuit protection         |      | yes                |
| Type of short-circuit protection |      | yes (non-latching) |
| Overload protection              |      | yes                |

| Monitoring range               |      |                                                    |
|--------------------------------|------|----------------------------------------------------|
| Range                          | [mm] | 1...600; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable               |      | yes                                                |
| Max. light spot diameter       | [mm] | 60                                                 |
| 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 |
| MTTF              | [years] | 867          |

| Mechanical data |      |                                                                         |
|-----------------|------|-------------------------------------------------------------------------|
| Weight          | [g]  | 38.9                                                                    |
| Housing         |      | rectangular                                                             |
| Dimensions      | [mm] | 35 x 24 x 11                                                            |
| Material        |      | housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS |
| Lens material   |      | front lens:glass                                                        |
| Lens alignment  |      | Front sensing                                                           |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |
|                               | Power            | 1 x LED, green  |
|                               | Function         | 1 x LED, red    |
| Electronic lock               |                  | yes             |

| Accessories    |  |                          |
|----------------|--|--------------------------|
| Items supplied |  | screws: 2 x (M3 x 16 mm) |
|                |  | Basic clip: 1, E20964    |
|                |  | spring washers: 2        |
|                |  | Nuts: 2                  |

| Remarks       |  |                                 |
|---------------|--|---------------------------------|
| Remarks       |  | cULus - Class 2 source required |
| Pack quantity |  | 1 pcs.                          |

### Electrical connection

Connector: 1 x M8; coding: A; Contacts: 4

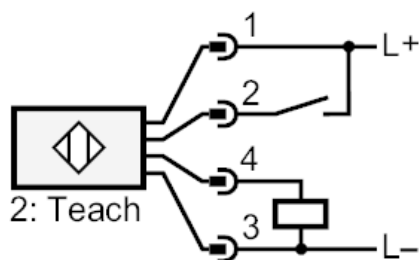




## Diffuse reflection sensor

OJB-FPKG/FO/AS

### Connection



2 Teach

### Diagrams and graphs

excess gain graph

