## Rectangular-OS13

### Descriptions:

Compact structure, 20×32×12mm, 360° LED indicator, small size with reliable detection.

### Features:

- Distance of 200mm and 400mm available for diffused
- Anti-interference capability
- M8 Pigtail connection optional
- Infrared beam, */R optional for red beam

### Type:

| Detection mode | Type | Distance | Beam | Response time | Output | Switch mode | Connection | Wiring |
|---|---|---|---|---|---|---|---|---|
| Opposed | OS13-S6 (emitter) | 10m | Infrared | —— | | —— | 2m cable | Fig.1 |
| | OS13-ELN6 (receiver) | 10m | —— | 500μs | NPN | Light on | 2m cable | Fig.2 |
| | OS13-S6 (emitter) | 10m | Infrared | —— | | —— | 2m cable | Fig.1 |
| | OS13-EDN6 (receiver) | 10m | —— | 500μs | NPN | Dark on | 2m cable | Fig.3 |
| | OS13-S6 (emitter) | 10m | Infrared | —— | | —— | 2m cable | Fig.1 |
| | OS13-ELP6 (receiver) | 10m | —— | 500μs | PNP | Light on | 2m cable | Fig.4 |
| | OS13-S6 (emitter) | 10m | Infrared | —— | | —— | 2m cable | Fig.1 |
| | OS13-EDP6 (receiver) | 10m | —— | 500μs | PNP | Dark on | 2m cable | Fig.5 |
| Reflector | OS13-RLN6 | 3m | Infrared | 500μs | NPN | Light on | 2m cable | Fig.2 |
| | OS13-RLP6 | 3m | Infrared | 500μs | PNP | Light on | 2m cable | Fig.4 |
| | OS13-RDN6 | 3m | Infrared | 500μs | NPN | Dark on | 2m cable | Fig.3 |
| | OS13-RDP6 | 3m | Infrared | 500μs | PNP | Dark on | 2m cable | Fig.5 |
| Diffused | OS13-K400LN6 | 400mm | Infrared | 500μs | NPN | Light on | 2m cable | Fig.2 |
| (20...400mm) | OS13-K400LP6 | 400mm | Infrared | 500μs | PNP | Light on | 2m cable | Fig.4 |
| | OS13-K400DN6-*-Q8 | 400mm | Infrared | 500μs | NPN | Dark on | 2m cable | Fig.3 |
| | OS13-K400DP6-*-Q8 | 400mm | Infrared | 500μs | PNP | Dark on | 2m cable | Fig.5 |

*Cable length,m,eg.OS13-S6-0.1-Q8, Pigtail cable length 0.1m, electrical connection 6-10 .
*/R red beam, eg. OS13-S6/R

### Technical Data:

| | |
|---|---|
| Operating voltage | 10...30VDC |
| Ripple voltage | ±10% of $U_B$ |
| Beam | Infrared, red optional |
| Output type | PNP/NPN |
| Output characteristic | Light on/dark on |
| No-load current | ≤20mA |
| Load current | ≤100mA |
| Spot diameter | 1.2m (10m, opposed), 350mm (3m, reflector), 10mm (800mm, diffused) |
| Orange LED | Switch |
| Housing | PMMA |
| Optical face | PMMA |
| Connection | 0.1m M8 Pigtail/2m cable |
| Ambient temperature | -25...55°C |
| Storage temperature | -40...70°C |
| Protection degree | IP65 |





### Electrical Connection:

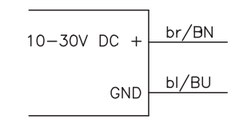


Fig.1

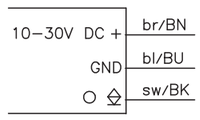


Fig.2

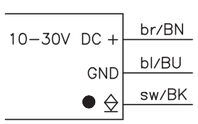


Fig.3

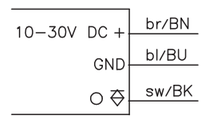


Fig.4

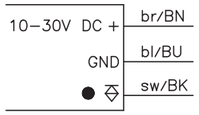


Fig.5

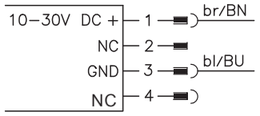


Fig.6

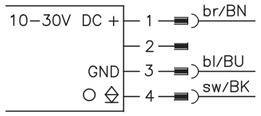


Fig.7

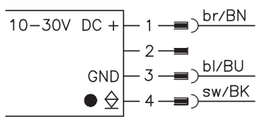


Fig.8

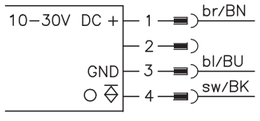


Fig.9

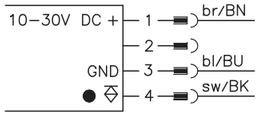
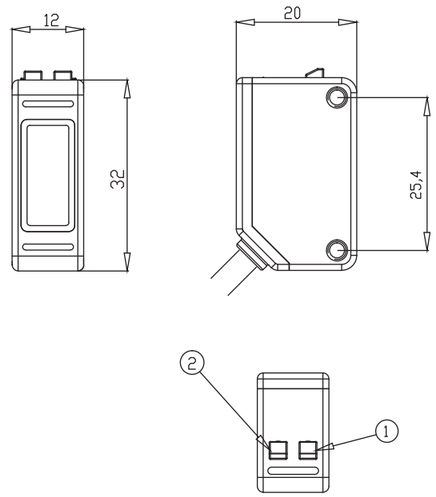


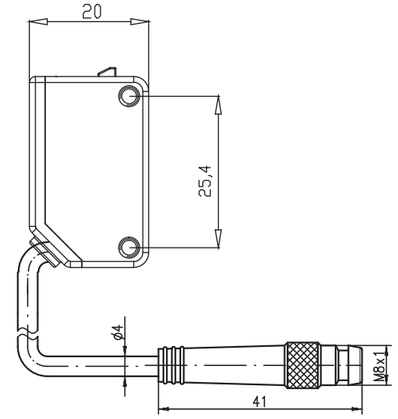
Fig.10

### Dimensions:

Cable




M8 Pigtail




| | |
|---|---|
| 1 | Single indicator |
| 2 | Power indicator |