




Position sensors and object recognition

High performance at a favourable price!



New generation of the well-known OBF fibre-optic amplifiers.

- High performance such as a high switching frequency of 3000 Hz.
- LED display to check operation, switching status and function.
- Variable mounting options: DIN rail or free-standing mounting.
- Easy parameter setting via pushbuttons.
- Wide range of fibre optics and accessories.

| | | | |
|---------------------------------------|-------------------------------|--|------------------------|
| High switching frequency | Rotatable connector |  TEACH-IN for simple operation. | Easy- to-use |
|---------------------------------------|-------------------------------|--|------------------------|

New generation

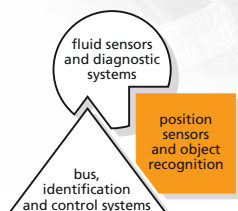
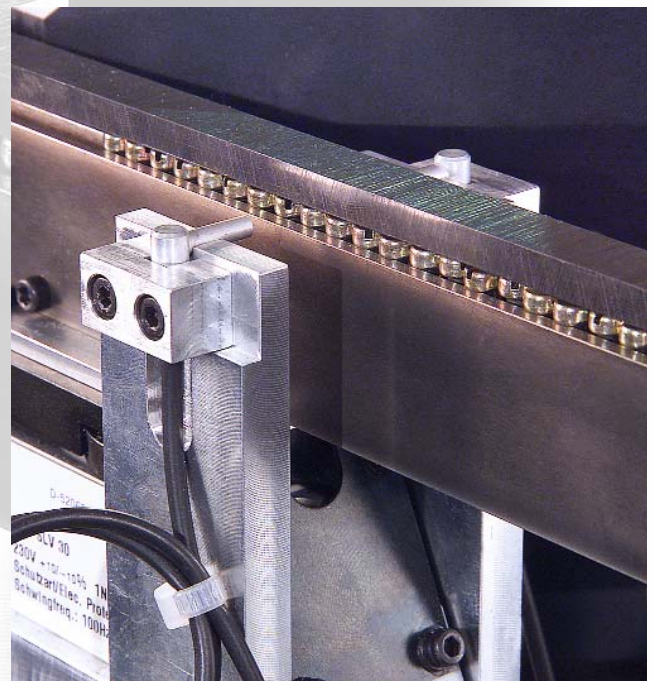
The new generation of fibre-optic amplifiers of type OBF have an unbeatable price / performance ratio.

Variable installation

The sensors can be mounted on a DIN rail or using fixing holes. The simple ifm teach concept guarantees fast set-up. The sensor is ready for operation by pressing the programming buttons twice.

For demanding applications




For demanding applications extended functions such as manual fine adjustment as well as pulse stretching (time delay function) are available.






Applications:
Packaging and food industry

| Type [mm] | Number of input channels | For fibre optics | Range through-beam sensor [mm] | Range diffuse reflection sensor [mm] | Output L=light-on mode D=dark-on mode | Automatic recognition PNP / NPN | Order no. |
|--|--------------------------|------------------|--------------------------------|--------------------------------------|---|------------------------------------|-----------|
| M12 connection · 4-pin · electrical design DC | | | | | | | |
| 74 x 36 x 15 | 1 | FE/FT-11 | 1200 | 100 | L/D, programmable | • | OBF500 |
| M8 connection · 4-pin · electrical design DC | | | | | | | |
| 74 x 36 x 15 | 1 | FE/FT-11 | 1200 | 100 | L/D, programmable | • | OBF501 |
| 2 m PVC connection cable · electrical design DC | | | | | | | |
| 74 x 36 x 15 | 1 | FE/FT-11 | 1200 | 100 | L/D, programmable | • | OBF502 |
| M8 connection · 3-pin · electrical design DC | | | | | | | |
| 74 x 36 x 15 | 1 | FE/FT-11 | 1200 | 100 | L/D, programmable | • | OBF503 |


Acrylic fibre optic, through-beam system

| Type | Description Through-beam sensor | Order no. |
|---|---|-----------|
|  | range 50 mm, sensing head aluminium | E21103 |
| | range 150 mm, sensing head aluminium | E20615 |
|  | range 250 mm, sensing head aluminium | E21102 |
| | range 1200 mm, sensing head aluminium | E20752 |
|  | range 60 mm, sensing head stainless steel (1.4301 / 304) | E20751 |
| | range 140 mm, sensing head stainless steel (1.4305 / 303) | E20714 |

Acrylic fibre optic, diffuse reflection system

| Type | Description Diffuse reflection sensor | Order no. |
|---|--|-----------|
|  | range 10 mm, sensing head aluminium | E21106 |
| | range 20 mm, sensing head aluminium | E20639 |
|  | range 60 mm, sensing head aluminium | E20758 |
| | range 70 mm, sensing head aluminium | E21105 |
|  | range 15 mm, sensing head stainless steel (1.4301 / 304) | E20748 |
| | range 70 mm, sensing head stainless steel (1.4301 / 304) | E20749 |


Accessories

| Type | Description | Order no. |
|---|---|-----------|
|  | cutter for acrylic fibres | E20600 |
| | You can find more accessories on our homepage | |

Further technical data

| | Type OBF | |
|--|-------------|------------------|
| Type of light | | red light 630 nm |
| Voltage drop | [V] | < 2.5 |
| Switching output | | < 2.5 |
| Function check output | | < 2.5 |
| Operating voltage | [V] | 10...30 DC |
| Short-circuit protection, pulsed | | • |
| Reverse polarity / overload protection | | • / • |
| Ambient temperature | [°C] | -25...60 |
| Current rating | [mA] | 100 |
| Switching output | | 100 |
| Function check output | | 10 |
| Switching frequency | [Hz] | 3000 |
| Timer function | [s] | 0.001...0.09 |
| Protection | | IP 65, II |
| Materials | housing | modified PPE |

Connectors and splitter boxes

| Type | Description | Order no. |
|---|-----------------------------------|-----------|
|  | M12 socket, 2 m black, PUR cable | EVC001 |
| | M12 socket, 5 m black, PUR cable | EVC002 |
|  | M12 socket, 2 m black, PUR cable | EVC004 |
| | M12 socket, 5 m black, PUR cable | EVC005 |
|  | M12 socket, 2 m orange, PVC cable | EVT064 |
| | M12 socket, 5 m orange, PVC cable | EVT001 |
|  | M12 socket, 2 m orange, PVC cable | EVT067 |
| | M12 socket, 5 m orange, PVC cable | EVT004 |

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