

EXTRA VERSATILE

F88 line

Light barriers & proximity switches

Robust and reliable.

Wherever a robust sensor is required with large distances and reliable operation, the F88 sensors are the best choice.

In addition to the 10-30 V DC version, there is a multiple power supply version 12-240 V AC/DC with terminal bar.

All versions have two complementary switching outputs.

An alarm output, a test input and time functions enlarge the range of application. A flexible connector concept (plug and terminal bar connection) and universal mounting possibilities (fixing hole and dovetail) facilitate set-up. The sensors are very easy to use and therefore quickly ready for operation.

The sensor's high resistance to ambient light increases its reliability and availability.

Typical industrial applications are for example:

- Object detection
- Object counting
- Checking for gaps
- Distance monitoring.

This range is also perfectly suited for use in the storage and materials handling technology with a multitude of requirements:

- Checking the occupancy of storage bays
- Detection of pallet feet
- Position monitoring
- Distribution monitoring

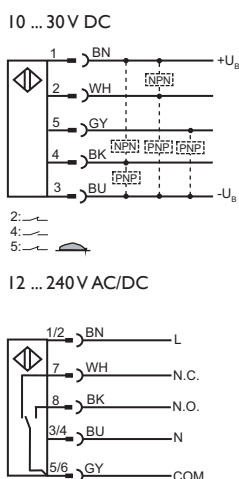


Features

- *Easy setting with potentiometer (270° or 10-turn)*
- *PNP, NPN and relay versions (with timer function)*
- *Two complementary switching outputs*
- *Also available as version with multiple power supply from 12 to 240 V AC/DC*
- *Visible red light; proximity switch with background suppression also available with infrared light*
- *Very robust, shock-resistant plastic housing*
- *With flexible dovetail mounting*

| Order reference | Operating voltage | Working range | Switching output | Connection | Order number |
|---|--------------------|----------------|------------------|------------------|--------------|
| Through-beam sensor | | | | | |
| FS 88-R-PM (Emitter) | 12 ... 240 V AC/DC | 65 m | - | M16, 8 terminals | 822-11003 |
| FE 88-R-RAT-PM (Receiver) | 12 ... 240 V AC/DC | 65 m | Relay, timer | M16, 8 terminals | 822-21009 |
| FS 88-R-L5 (Emitter) | 10 ... 30 V DC | 30 m | - | M 12 5-pin | 822-11004 |
| FE 88-R-PAV-L5 (Receiver) | 10 ... 30 V DC | 30 m | 2 x PNP | M 12 5-pin | 822-21010 |
| FE 88-R-NAV-L5 (Receiver) | 10 ... 30 V DC | 30 m | 2 x NPN | M 12 5-pin | 822-21011 |
| Retro-reflective sensor | | | | | |
| FR 88-R-RAT-PM | 12 ... 240 V AC/DC | 12 m | Relay, timer | M16, 8 terminals | 823-11009 |
| FR 88-R-PAV-L5 | 10 ... 30 V DC | 12 m | 2 x PNP | M 12 5-pin | 823-11010 |
| FR 88-R-NAV-L5 | 10 ... 30 V DC | 12 m | 2 x NPN | M 12 5-pin | 823-11011 |
| Proximity switch, energetic | | | | | |
| FT 88 R-GA-L4 | 10 ... 30 V DC | 20 ... 2000 mm | 2 x push-pull | M12 4-pin | 821-21009 |
| Proximity switch with background suppression | | | | | |
| FT 88-IH-RAT-PM | 12 ... 240 V AC/DC | 20 ... 2000 mm | Relay, timer | M16, 8 terminals | 821-11012 |
| FT 88-IH-PA-L5 | 10 ... 30 V DC | 20 ... 2000 mm | 2 x PNP | M 12 5-pin | 821-11013 |
| FT 88-IH-NA-L5 | 10 ... 30 V DC | 20 ... 2000 mm | 2 x NPN | M 12 5-pin | 821-11014 |
| FT 88-RH-RAT-PM | 12 ... 240 V AC/DC | 20 ... 700 mm | Relay, timer | M16, 8 terminals | 821-11009 |
| FT 88-RH-PA-L5 | 10 ... 30 V DC | 20 ... 700 mm | 2 x PNP | M 12 5-pin | 821-11010 |
| FT 88-RH-NA-L5 | 10 ... 30 V DC | 20 ... 700 mm | 2 x NPN | M 12 5-pin | 821-11011 |

Wiring diagrams



Dimensional drawings

