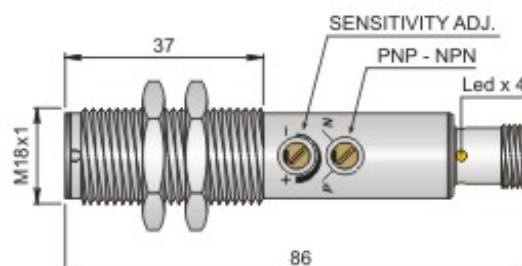


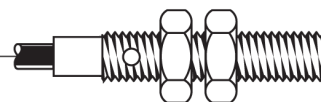
**Part number: FT1000546 - Model: FT18SM-CP50 H**



Dimension in mm

## TECHNICAL CHARACTERISTICS

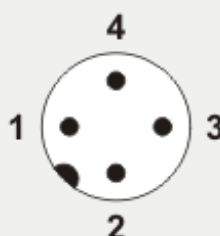
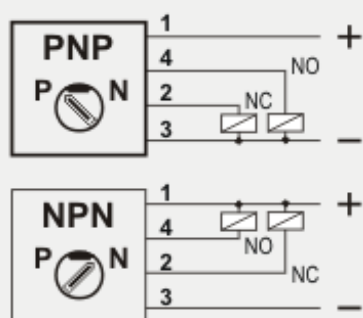
|                                   |                              |
|-----------------------------------|------------------------------|
| Power supply:                     | Direct current               |
| Working voltage:                  | 10 ÷ 30 Vdc                  |
| Switching distance (cm):          | 0 ÷ 50 (adjustable)          |
| Output type:                      | DC PNP/NPN                   |
| Function:                         | NO+NC                        |
| Actuation type:                   | Instantaneous                |
| Light source:                     | Infrared                     |
| Power on delay:                   | < = 100 mSec                 |
| Max switching frequency:          | 200 Hz                       |
| Max output current:               | 200 mA                       |
| Absorption:                       | < = 50 mA @ 24 Vdc           |
| Voltage drop:                     | < = 1.8V                     |
| Short circuit protection:         | Present                      |
| Interference from external light: | > 10000 Lux                  |
| Led indicator:                    | Yellow = operation indicator |
| Temperature limits:               | -20 ÷ +50 °C                 |
| IP rating:                        | IP 67                        |
| Housing material:                 | Nickelled brass              |
| Mechanical characteristics:       | M18x1                        |
| Connection type:                  | H plug                       |
| Weight:                           | 75 g                         |



Part number: FT1000546 - Model: FT18SM-CP50 H

## WIRING DIAGRAM

### CONNECTION WITH H PLUG



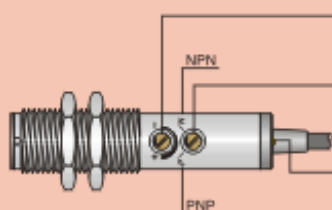
#### VIEW OF MALE CONNECTOR

1 = Brown / +  
3 = Blue / -  
4 = Black / output NO  
2 = White / output NC

## INSTRUCTIONS FOR CORRECT INSTALLATION



### INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.  
**WARNING !** For a correct working of the unit, do not carry out the switching when the photocell is powered.

• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

**NOTE !** Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

**NOTE !** It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.

