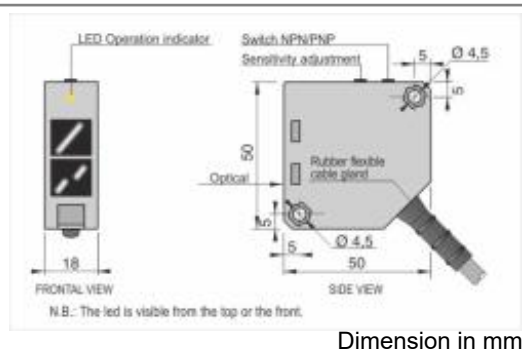


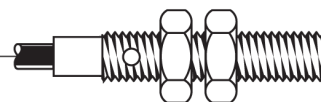


**Part number: FTQ000109 - Model: FTQSP-CR**



## TECHNICAL CHARACTERISTICS

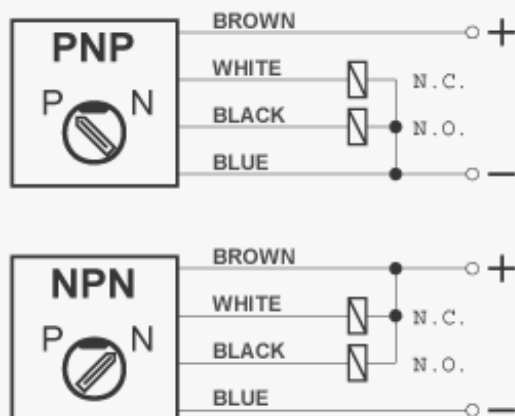
|                                   |                      |
|-----------------------------------|----------------------|
| Power supply:                     | Direct current       |
| Working voltage:                  | 10 - 30 Vdc          |
| Switching distance (cm):          | 0 - 800 (adjustable) |
| Output type:                      | DC PNP/NPN           |
| Function:                         | NO+NC                |
| Actuation type:                   | Instantaneous        |
| Light source:                     | Infrared             |
| Power on delay:                   | < 100 mSec           |
| Max switching frequency:          | 400 Hz               |
| Max output current:               | 200 mA               |
| Absorption:                       | < 35 mA @ 24 Vdc     |
| Voltage drop:                     | < 1.8 V              |
| Short circuit protection:         | Present              |
| Interference from external light: | > 10000 Lux          |
| Led indicator:                    | Yellow = operation   |
| Temperature limits:               | -20 - +60 °C         |
| IP rating:                        | IP 65                |
| Housing material:                 | Grey ABS             |
| Mechanical characteristics:       | FTQ 50x50x18         |
| Connection type:                  | Cable 2 m            |
| Cable type:                       | 4x0.25 PVC           |
| Weight:                           | 120 g                |



Part number: FTQ000109 - Model: FTQSP-CR

## WIRING DIAGRAM

### 4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



## INSTRUCTIONS FOR CORRECT INSTALLATION

### TYPES



Reflection with reflector (R type)

## INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT

### FTQ MODELS (NPN/PNP)



- YELLOW LED - OPERATION INDICATOR :** This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.
- 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 device is delivered in PNP mode.  
Setting NPN mode :  
Power on the device and put the switch in PNP mode, if it is not already in this position.  
Power off the device. Put the switch in NPN mode.  
Power on the device again and check the NPN output mode.  
Setting PNP mode :  
Power on the device and put the switch in NPN mode, if it is not already in this position.  
Power off the device. Put the switch in PNP mode.  
Power on the device again and check the PNP output mode.

## CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FTQ-CR / FTQ R-R

