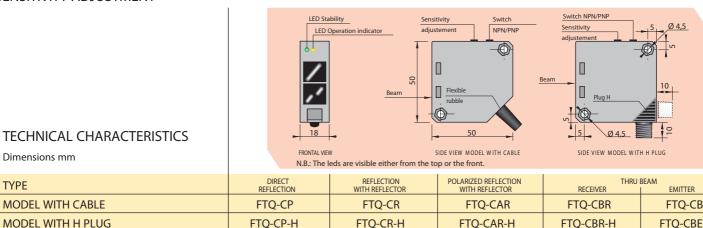


PHOTOELECTRIC SENSORS FTQ SERIES NPN/PNP

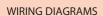
10 ÷ 30 VDC

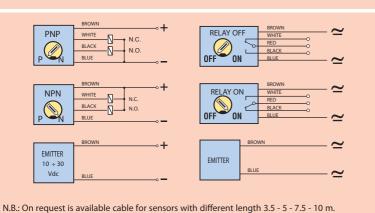


COMPACT SIZE 50 x 50 x 18 mm PROGRAMMABLE OUTPUT NPN/PNP OUTPUT FUNCTION NO + NC SENSITIVITY ADJUSTMENT



TYPE		DIRECT REFLECTION	REFLECTION WITH REFLECTOR	POLARIZED REFLECTION WITH REFLECTOR	RECEIVER THRU	BEAM EMITTER	
MODEL WITH CABLE		FTQ-CP	FTQ-CR	FTQ-CAR	FTQ-CBR	FTQ-CBE	
MODEL WITH H PLUG		FTQ-CP-H	FTQ-CR-H	FTQ-CAR-H	FTQ-CBR-H	FTQ-CBE-H	
Sensing range (Sn)	cm	80* 500** 300**		2000			
Programmable output			NPN/PNP	NO + NC			
Light source	Led	Infrared		Red	Infrared		
Power on delay	mSec	≤ 80					
Switching frequency	Hz	700			2!	250	
Continuous voltage (Res. ripple ≤	(10%) V	10 ÷ 30					
Multivoltage AC/DC	V						
Max output current	mA	200				-	
Max current consumption at 24 Vdo	c mA	≤ 50			≤ 20	≤ 50	
Voltage drop (I out = 200 mA)	V	≤ 3					
Short circuit protection		Incorporated -				-	
Light immunity		>10.000 Lux				-	
Led	Yellow	Operation indicator				Power supply	
	Green	Stability control				(Red Led)	
Temperature limits	°C	Working temperature: -20 \div +50 / Storage temperature: -20 \div +65					
Protection degree	IP	65					
Plastic housing		Gray ABS					
Cable	2m	4 x 0.25 mm ²				2 x 0.50 mm ²	
Connector plug				Н			





CONNECTION WHIT H PLUG FOR THE CONNECTORS SEE PAGE 85

VIEW OF MALE CONNECTOR PLUG H

MODELS NPN/PNP

- 2 WIRES (EMITTER)
- 1 = Brown / + 3 = Blue / -
- 4 WIRES (OTHER MODELS)
- 1 = Brown / + 3 = Blue / -
- 4 = Black / output NPN-PNP/N.O.
- 2 = White / output NPN-PNP/N.C.

MODELS RELAY

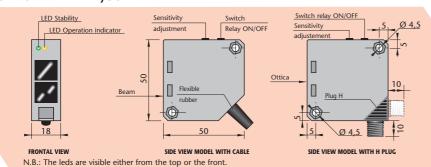
- 2 WIRES (EMITTER)
- 4 WIRES (OTHER MODELS)
- 1 = Brown / ~~ 3 = Blue / ~~ 1 = Brown / **~** 3 = Blue / **~** 2-4 = Relay contact

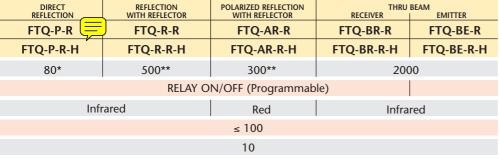
N.B. With relay in OFF position the contact 2-4 is open. With connectors with cable the contact 2-4 corresponds to the Black-White wiring.

^{*}The sensing distance is related to matt white paper dim. 20 x 20 cm. **The sensing distance is related to CT80 reflector.

PHOTOELECTRIC SENSORS FTQ SERIES - RELAY 12 ÷ 240 VAC/DC

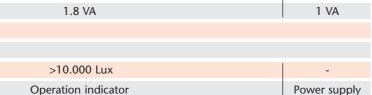
COMPACT SIZE 50 x 50 x 18 mm **RELAY OUTPUT** PROGRAMMABLE RELAY ON/OFF SENSITIVITY ADJUSTMENT





12 ÷ 240

 $12 \div 240$



Working temperature: $-20 \div +50$ / Storage temperature: $-20 \div +65$

65

Gray ABS

5 x 0.35 mm²

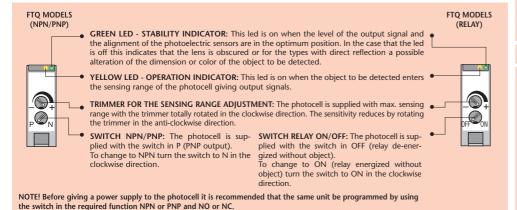
Stability control

Contact relay 1A 220Vac

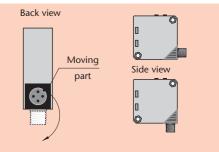
2 x 0.50 mm²

(Red Led)

INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT

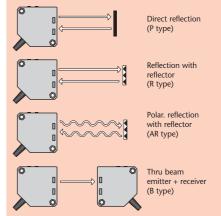


H PLUG - M12 CONNECTOR

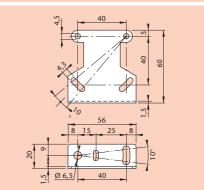


Turn in the clockwise to choose the direction of the connector exit.

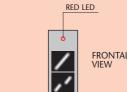
TYPES



MOUNTING BRACKET ST2



EMITTER FTQ - CBE/FTQ - BE - R POSITION OF POWER SUPPLY LED



FRONTAL VIEW