

FT18M Series

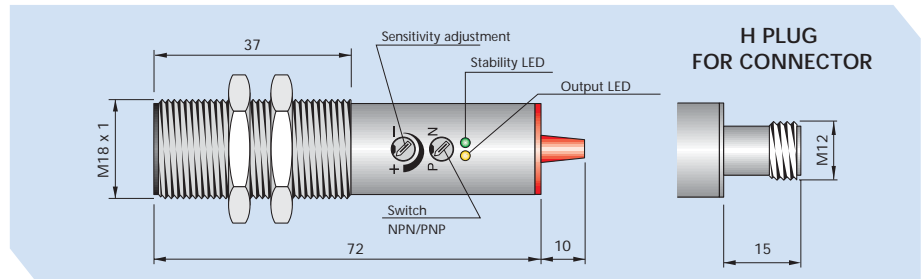
PHOTOELECTRIC SENSORS 10 ÷ 30 VDC

STAINLESS STEEL CYLINDRICAL HOUSING M18x1
 PROGRAMMABLE OUTPUT NPN/PNP
 FUNCTIONS NO + NC
 SENSITIVITY ADJUSTMENT
 AXIAL BEAM



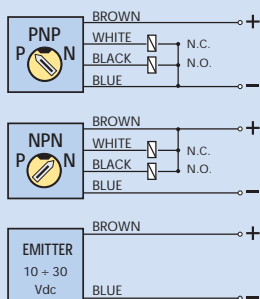
TECHNICAL CHARACTERISTICS

Dimensions mm



TYPE	DIRECT REFLECTION		REFLECTION WITH REFLECTOR	POLARIZED REFLECTION WITH REFLECTOR	THRU BEAM RECEIVER EMITTER		
	FT18M-CP2	FT18M-CP4	FT18M-CR	FT18M-CAR	FT18M-CBR	FT18M-CBE	
MODEL WITH CABLE	FT18M-CP2	FT18M-CP4	FT18M-CR	FT18M-CAR	FT18M-CBR	FT18M-CBE	
MODEL WITH H PLUG	FT18M-CP2-H	FT18M-CP4-H	FT18M-CR-H	FT18M-CAR-H	FT18M-CBR-H	FT18M-CBE-H	
Sensing range (Sn)	cm	20*	40*	250**	100**	1500	
Programmable output	NPN/PNP NO + NC					-	
Light source	Led	Infrared		Red	Infrared		
Power ON delay	mSec	≤ 75					
Switching frequency	Hz	700				250	
Continuous voltage (Res. ripple ≤10%)	V	10 ÷ 30					
Max output current	mA	200					
Max current consumption at 24 Vdc	mA	≤ 50	≤ 20			≤ 35	
Voltage drop (I out = 200 mA)	V	≤ 3					
Short circuit protection		Incorporated					
Light immunity		> 10.000 Lux					
LED	Yellow	Operation indicator					Power supply (Red led)
	Green	Stability					
Temperature limit	°C	Storage -20 ÷ +90°C • Working -20 ÷ +50°C					
IP rating	IP	67					
Housing		Stainless steel AISI 303					
Cable	2m	4 x 0.25 mm ²			4 x 0,25 mm ²	2 x 0,50 mm ²	
Connector plug		H					

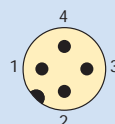
WIRING DIAGRAMS



N.B.: Upon request cable for sensors with different lengths 3.5 - 5 - 7.5 - 10 metres is available.

CONNECTION WITH H PLUG FOR CONNECTORS SEE PAGE 85

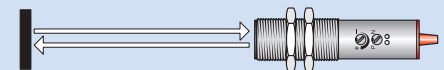
VIEW OF MALE CONNECTOR H



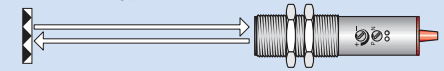
- 2 WIRINGS (EMITTER) 4 WIRINGS
 1 = Brown / + 1 = Brown / +
 3 = Blue / - 3 = Blue / -
 4 = Black / output NO 2 = White / output NC

TYPES

Direct reflection (P type)



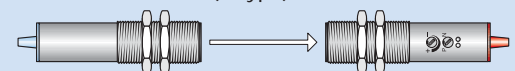
Reflection with reflector (R type)



Polarized reflection (AR type)



Thru beam emitter + receiver (B type)

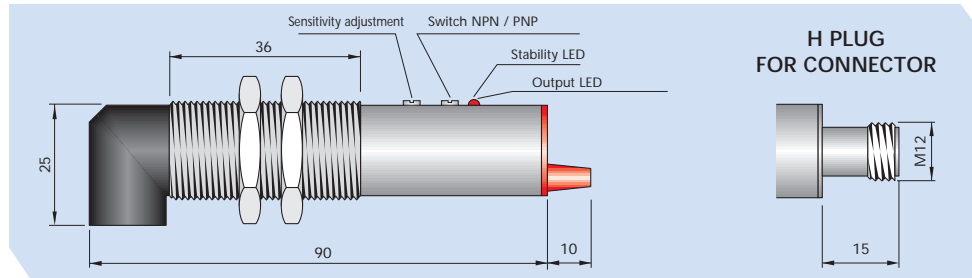


*The sensing distance is related to matt white paper dim. 10 x 10 cm. **The sensing distance is related to CT80 reflector.

FT18M Series 90° Beam

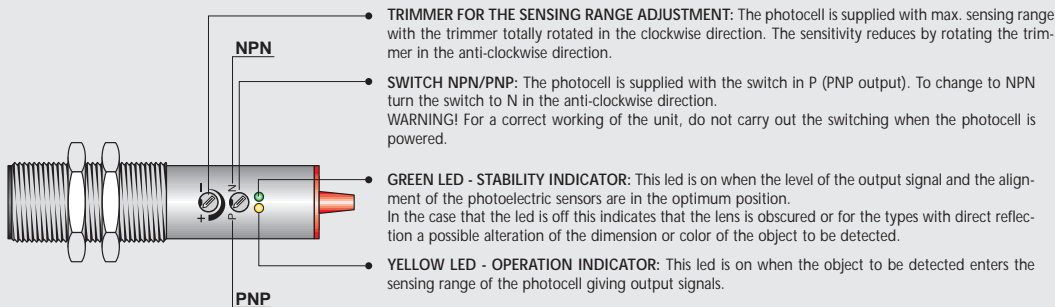
PHOTOELECTRIC SENSORS 10 ÷ 30 VDC

STAINLESS STEEL CYLINDRICAL HOUSING M18x1
 PROGRAMMABLE OUTPUT NPN/PNP
 FUNCTIONS NO + NC
 SENSITIVITY ADJUSTMENT
 90° BEAM



DIRECT REFLECTION		REFLECTION WITH REFLECTOR	POLARIZED REFLECTION WITH REFLECTOR	RECEIVER THRU BEAM	EMITTER
FT18M-CP2-90	FT18M-CP4-90	FT18M-CR-90	FT18M-CAR-90	FT18M-CBR-90	FT18M-CBE-90
FT18M-CP2-90-H	FT18M-CP4-90-H	FT18M-CR-90-H	FT18M-CAR-90-H	FT18M-CBR-90-H	FT18M-CBE-90-H
20*	40*	250**	100**	1500	
NPN/PNP			NO + NC		-
Infrared			Red	Infrared	
≤ 75					
700			250		
10 ÷ 30					
200			-		
≤ 50			≤ 20	≤ 35	
≤ 3			-		
Incorporated			-		
> 10.000 Lux			-		
Operation indicator			Power supply (Red led)		
Stability					
Storage -20 ÷ +90°C • Working -20 ÷ +50°					
67					
Stainless steel AISI 303					
4 x 0,25 mm ²			4 x 0,25 mm ²		2 x 0,50 mm ²
H					

INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT

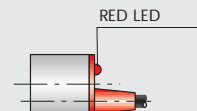


NOTE! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

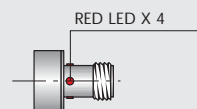
NOTE! It is recommended that the trimmer and the switch be rotated very carefully by using a proper tool otherwise these can be seriously damaged.

EMITTER FT18M-CBE

POWER SUPPLY LED POSITION



TYPES WITH CABLE



TYPES WITH CONNECTOR