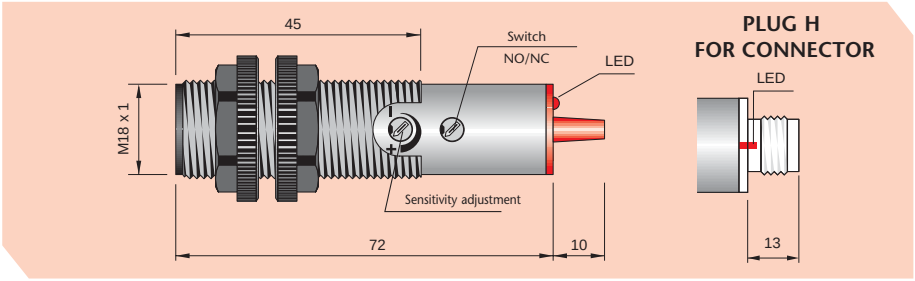
PHOTOELECTRIC SENSORS FT18 SERIES 20 ÷ 250 VAC

CE

CYLINDRICAL HOUSING M18x1
3 WIRES A.C.
PROGRAMMABLE OUTPUT NO/NC
SENSITIVITY ADJUSTMENT
AXIAL BEAM

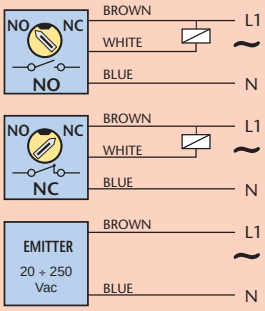
TECHNICAL CHARACTERISTICS

Dimensions mm



TYPE		DIRECT REFLECTION		REFLECTION WITH REFLECTOR	POLARIZED REFLECTION WITH REFLECTOR	THRU BEAM RECEIVER	THRU BEAM EMITTER
MODEL WITH CABLE		FT18-AP2	FT18-AP4	FT18-AR	FT18-AAR	FT18-ABR	FT18-ABE
MODEL WITH H PLUG		FT18-AP2-H	FT18-AP4-H	FT18-AR-H	FT18-AAR-H	FT18-ABR-H	FT18-ABE-H
Sensing range (Sn)	cm	20*	40*	250**	100**	1500	
Programmable output		NO or NC					-
Light source	Led	Infrared			Red	Infrared	
Power ON delay	mSec	≤ 75					
Switching frequency	Hz	15					-
Alternating voltage 50 ÷ 60 Hz	V	20 ÷ 250					
Max output current	mA	300					-
Max peak current for 20 ms	A	3					-
Max current consumption	mA	≤10					
Voltage drop (Sensor ON) (Max)	V	1.5					-
Short circuit protection		Incorporated					-
Light immunity		> 10.000 Lux					-
Led		Operation indicator					Power supply
Temperature limit	°C	Storage -20 ÷ +90°C • Working -20 ÷ +50°C					
Protection degree	IP	67					
Plastic housing		Gray makrolon (On request stainless steel AISI 303)					
Cable	2m	3 x 0.35 mm²					2 x 0,50 mm²
Connector plug		H					

WIRING DIAGRAMS

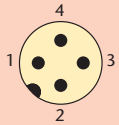


N.B.: On request is available cable for sensors with different length 3.5 - 5 - 7.5 - 10 m.

CONNECTIONS WITH H PLUG

FOR CONNECTORS SEE PAGE 85

VIEW OF MALE CONNECTOR **H**



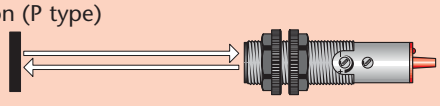
2 WIRINGS (EMITTER)
1 = L1
3 = N

4 WIRINGS
1 = Brown / L1
3 = Blue / N
4 = White / NO - NC Programmable

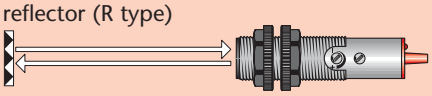
N.B.: Use female connector without led.

TYPES

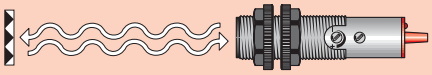
Direct reflection (P type)



Reflection with reflector (R type)



Polarized reflection with reflector (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.**

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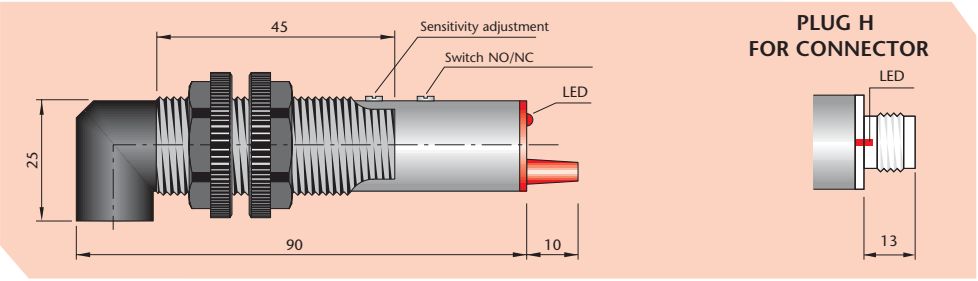
PHOTOELECTRIC SENSORS FT18 SERIES 90° BEAM 20 ÷ 250 VAC

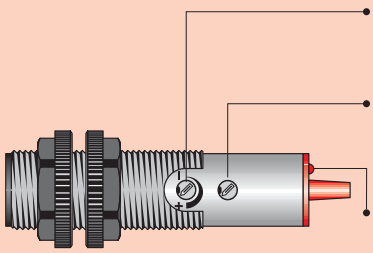
CE

CYLINDRICAL HOUSING M18x1
3 WIRES A.C.
PROGRAMMABLE OUTPUT NO/NC
SENSITIVITY ADJUSTMENT
90° BEAM



DIRECT REFLECTION		REFLECTION WITH REFLECTOR	POLARIZED REFLECTION WITH REFLECTOR	THRU BEAM RECEIVER	THRU BEAM EMITTER
FT18-AP2-90	**FT18-AP4-90**	**FT18-AR-90**	**FT18-AAR-90**	**FT18-ABR-90**	**FT18-ABE-90**
FT18-AP2-90-H	**FT18-AP4-90-H**	**FT18-AR-90-H**	**FT18-AAR-90-H**	**FT18-ABR-90-H**	**FT18-ABE-90-H**
20*	40*	250**	100**	1500	
NO or NC					-
Infrared			Red	Infrared	
≤ 75					
15					-
20 ÷ 250					
300					-
3					-
≤ 10					
1.5					-
Incorporated					-
> 10.000 Lux					-
Operation indicator					Power supply
Storage -20 ÷ +90°C • Working -20 ÷ +50°C					
67					
Gray makrolon (On request stainless steel AISI 303)					
3 x 0.35 mm²					2 x 0,50 mm²
H					

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 NO/NC: The photocell is supplied with switch in NO position (in absence of the object to be detected the output is disactivated).
To change to N.C. (in absence of the object to be sensed the output is actived) turn the switch to N.C. in the anti-clockwise direction.

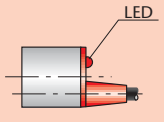
LED FOR INDICATION OF OPERATION: This indicates the output of the photocell, in the absence of the object to be sensed it is off with output N.O. and is on with output N.C. this changes state when the object to be sensed enters into the sensing area of the photocell.

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 NO or NC.

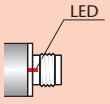
NOTE! It is recommended that the trimmer and the switch be rotated very carefully by using a proper tool otherwise these can be seriously damaged.

EMITTER FT18-ABE

POSITION OF POWER SUPPLY LED



TYPES WITH CABLE



TYPES WITH CONNECTOR

PHOTOELECTRIC

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