

# PROXIMITY SENSORS

## PHOTO ELECTRIC PROXIMITY SENSORS



- Direct reflection or through beam
- NPN or PNP output
- Wide operating temperature range
- Axial or 90° beam

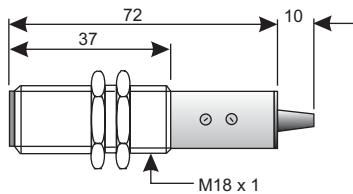
These photoelectric sensors, or photocells, are made up of a light emitter and a detector or receiver. The variation in luminous signal when the beam between the emitter and detector is interrupted controls the state of the output. The range covers reflection and through beam types in 3 standard packages with axial or 90° beam and NPN, PNP, NO & NC outputs.

### SPECIFICATION

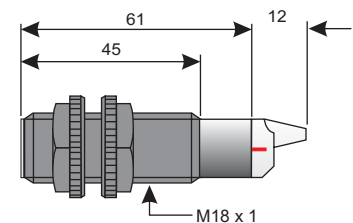
Body material :	Stainless Steel or Black makrolon
Supply voltage :	10-30Vdc; 20-250Vac, 12-240Vac/dc
Output :	NPN/PNP, NO or NC
Light source :	Infrared or Red LED
Start-up/reset time :	< 50 msec reflection types < 180 msec through beam types
Light immunity :	>10,000 Lux
Operating temp :	-20 to 50°C
Storage temp :	-20 to 90°C
Protection level :	IP67

### DIMENSIONS

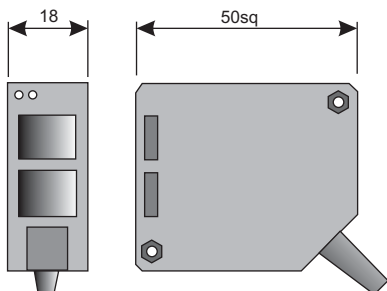
**FT18M Series :** Stainless Steel AISI 303 M18x1 housing. 10 to 30 Vdc NPN or PNP, NO and NC outputs, LED indicators, axial or 90° beam with adjustable sensitivity.



**FT18 Series :** Plastic M18x1 housing. 10 to 30 Vdc & 20 to 250 Vac NO or NC outputs, axial or 90° beam with sensitivity adjustment

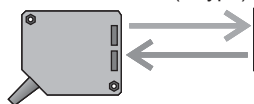


**FTQ Series :** 50 x 50 x 18 plastic housing, 10 to 30 Vdc NPN or PNP, NO and NC or 12 to 240 Vac/dc with NO and NC relay output. LED indicators and sensitivity adjustment.

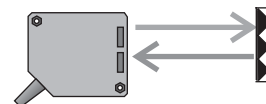


### OPERATION

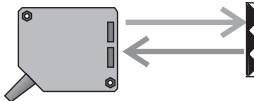
Direct reflection (P type)



Reflection with reflector (R type)



Reflection with reflector polarised light (AR type)

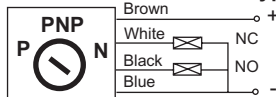


Through beam (B type)

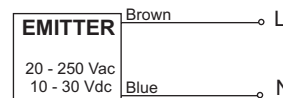
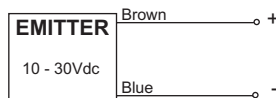
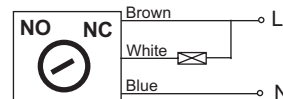
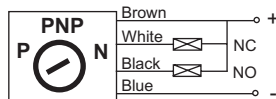
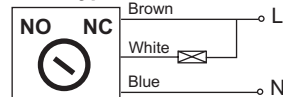


### CONNECTION DIAGRAMS

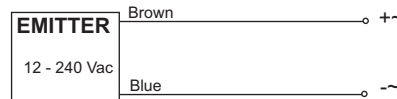
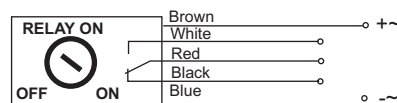
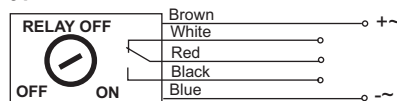
#### FT18M & FTQ NPN/PNP types



#### FT18 Types



#### FTQ - RelayTypes



### Part Numbering Options : FT A- B C - D - E

A	Housing type	M18 Plastic M18 Stainless steel 50x50 Plastic	18 18M Q
B	Supply voltage	10-30Vdc 20-250Vac 12-240Vac/dc	C A -
C	Sensing function	Direct reflection Reflector Polarised reflector Through beam emitter Through beam receiver	P R AR BE BR
D	Axial/90° beam	Axial 90°	- 90
E	Connection	2m Cable H connector	- H

### STANDARD ITEMS

Because of the large number of product options available, please contact our sales office so that we can provide a sensor to meet your exact requirements.