

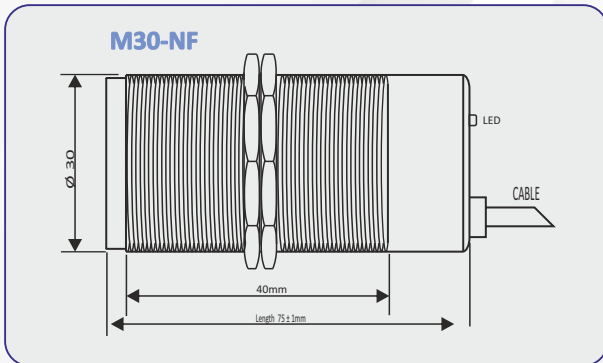
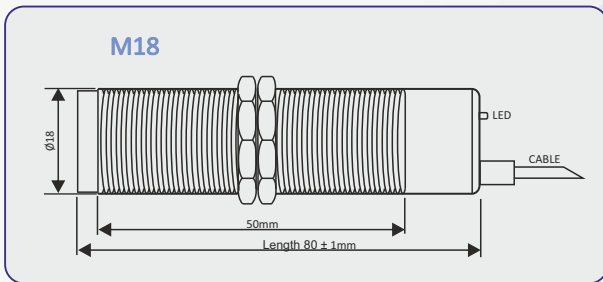
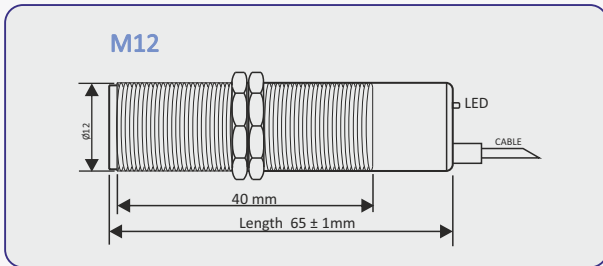


## SENSOR

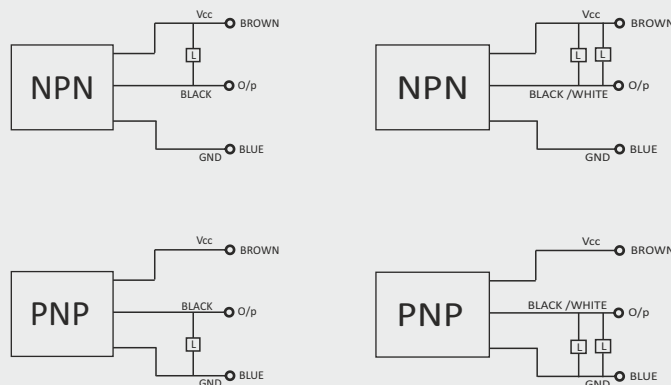
### IR SENSORS (Photo Electric Sensor)

EXCELLA provides many varieties of Sensors including diffuse reflective, Retro-Reflective & Fibre optic sensors, We also provide sensors either built in separate amplifier, Transmitter & Receiver in the same housing or separate housing as per need. The IR beam is emitted by the transmitter is received by receiver which obtain output pulse. These are particularly used to detect the distance also to know the absence or presence of object. The IR Sensors has an advantage over inductive and capacitive sensors to sense any object like Bottle, Plastic films, paper or sheet metals etc.

### SENSOR DIMENSIONS



### WIRING DIAGRAMS





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## SENSOR

### IR SENSORS (Photo Electric Sensor)

PHOTO ELECTRIC SENSOR			
Type	Diffuse (IR Sensor)		Diffuse Sensor with Reflector
Dimension	M12	M18	M 18
Sensing Distance	Direct Cable		Direct Cable
Detecting Target	100 mm	400mm	5 mtrs
Logic	Glossy Material		
Operating Voltage	NPN / PNP - NO or NC		
Sensitivity	10-30VDC		
I Max	Adjustment by preset		
Response Time	250 mA		
Response Frequency	< 2 ms		
Current Consumption	400Hz		
Leakage Current	<15mA		
Voltage Drop	< 10mA		
CKT Protection	< 2 V		
Cable Length/ Wiring Connections	Reverse Polarity Protection		
Indicators	PVC Cable : 3 Core, 2 mtrs ( Brown :+Ve, Blue :-Ve Black:output)		
Ambient Temperature	Operation Indicators ( RED or GREEN LED)		
Storage Temperature	-10 to +70 Deg. C		
Environmental Protection	-20 to 80Deg. C		
Weight	IP 54 / IP 65 / IP 67 ( Normally IP 54 )		
Materials	Approx:80g	Approx:110g	Approx:210g
Materials	Case & Two fixing Nuts : Stainless Steel or Nickel Plated Brass		



**SENSOR**

**THROUGH BEAM SENSOR WITH CONTROLLER**

We are providing transmitter & Receiver in separate housing facing each other with their optical areas, whenever the IR beam interrupted a output pulse is achieved, These sensors Specially used in long sensing distance. these sensors are reliable in daylight & dusty environments.

**Application**

Through Beam sensors are use for Sliver Breakage detection, Paper breakage detection, door opening & closing application etc.



**Technical Specification:**

Sensor Dia	Logic / Output	Sensing Range	Controller Technical Details
M18 X 70 mmL	NPN / PNP NO or NC	5 mtrs	This unit contains 1 set of Sensor to connect Transmitter & Receiver separately, Working on 230VAC,50Hz, 1 Relay Output, (NC, C, NO) with rating of 5A / 230VAC, 50 Hz Dimension : 60 X 71 X 110 mm H LED Indication : RED LED Indicates Power Status. GREEN LED Status Indicators.
M30 X 70mmL	NPN / PNP NO or NC	7 mtrs	This unit contains 2 sets of Sensor to connect Transmitter & Receiver separately, Working on 230VAC,50Hz, 2 Relay Output, (NC, C, NO) with rating of 5A / 230VAC, 50 Hz <b>Dimension</b> : 100 X 71 X 113 mm H LED Indication : RED LED Indicates Power Status. GREEN LED Status Indicators.

**Wiring Diagram**

