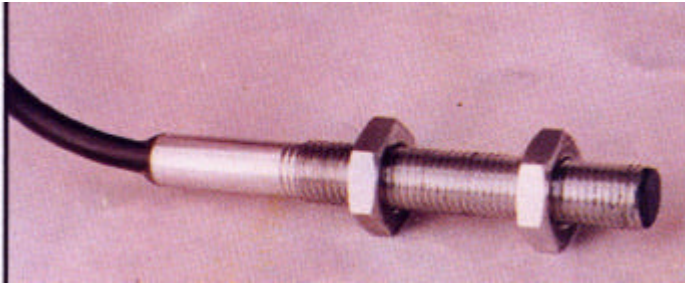
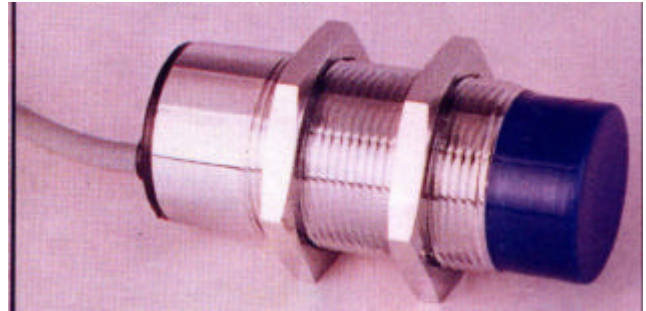


INDUCTIVE PROXIMITY SENSORS

DC TYPE (3 WIRE VERSION)



DC TYPE (3 WIRE VERSION)



Inductive Proximity Sensors being contactless sensors can be used for position sensing, speed measurement, counting, etc. They can be used in extreme conditions, such as oily, dusty, corrosive environment. Their application ranges from Automobile Industries to Steel Industries, from CNC/NC machines to material handling equipments, process automation, conveyor systems, packaging machines.

SPECIFICATIONS:

Supply Voltage : 10-30V DC
 Ripple on Supply : 10% max.
 No load Current : Less than 10 mA
 Maximum load Current : 300 mA
 Hysteresis : 15% max.
 Operating Temperature : -25°C to + 70°C
 Output Transistor : PNP or NPN
 Output Logic : No or NC or NO + NC
 Environmental Protection : IP67
 Repeat Accuracy : Less than 0.02 mm

Temperature Drift : 5% typical
 Switch - ON effect Suppression : Incorporated
 Reverse Polarity Protection : Provided
 Short Circuit Protection : Provided
 Status Indication : Provided thro' LED (For MI 8 & above)

SWITCHING FREQUENCY

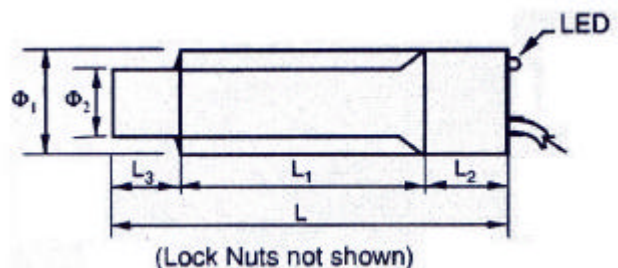
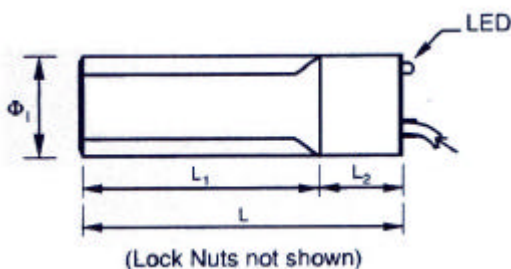
Ø(mm)	8	12	18	30	36	50
Hz	2000	1000	800	300	200	100

FLUSH MOUNTING

Ø1	L1	L2	L	Sn	Ø1	L1	L2	L	Sn
8	45	-	45	1	30	50	20	70	10
12	55	20	75	2	36	60	20	80	15
16	55	20	75	5	50	40	20	60	20
18	55	20	75	5					
20	50	20	70	5					
25	50	20	70	8					

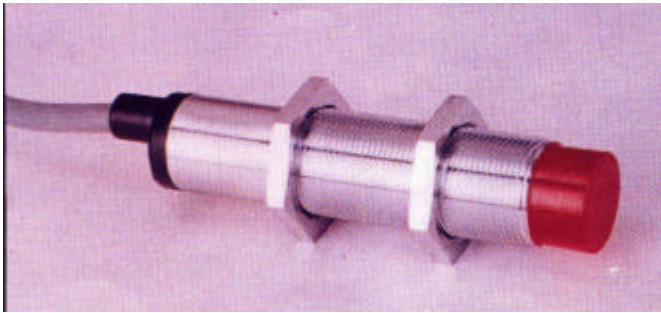
NON FLUSH MOUNTING

Ø1	Ø2	L1	L2	L3	L	Sn	Ø1	Ø2	L1	L2	L3	L	Sn
8	7	40	-	5	45	2	30	28	35	20	15	70	15
12	10	45	20	5	70	4	36	33	35	20	25	80	20
18	16	45	20	10	75	8	50	46	40	20	20	80	25
20	16	50	20	10	80	8							
22	16	50	20	10	80	8							
25	23	50	20	10	80	10							



INDUCTIVE PROXIMITY SENSORS

DC TYPE (2 WIRE VERSION)



These Sensors are designed to work as solid-state DC limit switches. The Sensors are connected directly in series with a load and have a bridge rectifier so they are not polarity conscious. The circuit design is such that, when in off state, it allows very small current to flow through the load. However, a output load (such as relay) should be chosen, considering the voltage drop across the switch in the ON state. These sensors find wide application in electric control circuits and PLC's.

SPECIFICATIONS:

Supply Voltage (nominal)	:10-60V DC
Voltage Drop across the Switch	: Less than 6.8V
Maximum Load Current (Continuous)	: 100 mA
OFF State Current	:less than 1 mA
Operating Temperature	: -25°C to +70°C
Hysteresis	: 15% max.
Switching Frequency	: 5 Hz typical
Output Logic	: NO or NC
Environmental Protection	: IP 67
Status Indication	: Through LED

AC TYPE (2 WIRE VERSION)



These Sensors are designed to provide better alternative to conventional limit Switches / micro switches. These are epoxy potted similar to other types of sensors to render IP67 protection and hence are suitable even in underwater applications. The load (Contactor / A.C. relay / Solenoid Coil) is to be connected in series with the switch.

SPECIFICATIONS:

Supply Voltage (nominal)	: 20-250 VAC
Supply Frequency	: 45 - 65 Hz
Load Current	: 500 mA max.
Leakage Current	: 2.3 mA typical
Voltage Drop Across the Switch	: 6-8V..
Maximum Inrush Current	: 6A;t <:10ms:f<5
Minimum Load Current	: 5 mA
Hysteresis	: 10% typical
Repeatability	: 1% typical
Temperature Drift	: 5% typical
Switch ON effect suppression	: Provided
Output Logic	: NO or NC or NO+NC*
Status Indication	:Through LED

* In sizes M30 & above.

FLUSH

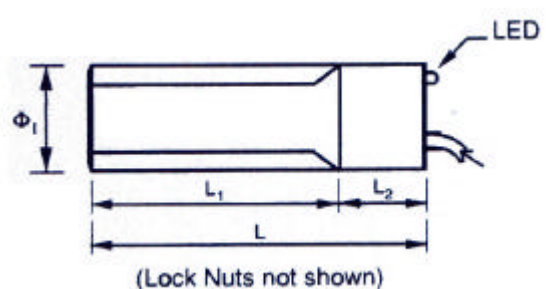
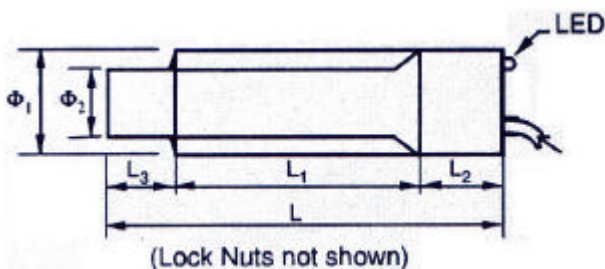
NON FLUSH

Ø1	L1	L2	L	Sn	Ø1	Ø2	L1	L2	L3	L	Sn
18	55	20	75	5	18	16	45	20	10	75	8
25	50	20	70	8	25	23	50	20	10	80	10
30	50	20	70	10	30	28	35	20	15	70	15
36	60	20	80	15	36	33	35	20	25	80	20
50	40	20	60	20	50	46	40	20	20	80	25

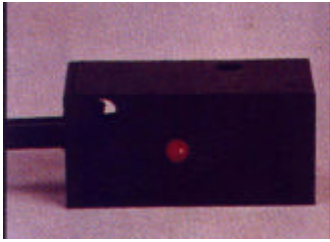
FLUSH

NON FLUSH

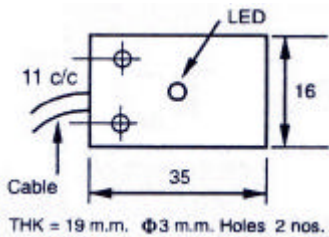
Ø1	L1	L2	L	Sn	Ø1	Ø2	L1	L2	L3	L	Sn
12	55	20	75	2	12	10	45	20	5	70	4
18	55	20	75	5	18	16	45	20	10	75	8
25	50	20	70	8	25	23	50	20	10	80	10
30	50	20	70	10	30	28	35	20	15	70	15
36	60	20	80	15	36	33	35	20	25	80	20
50	40	20	60	20	50	46	40	20	20	80	25



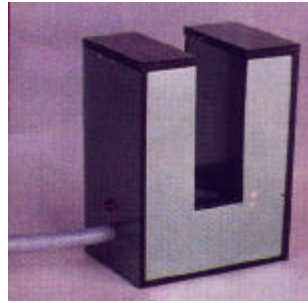
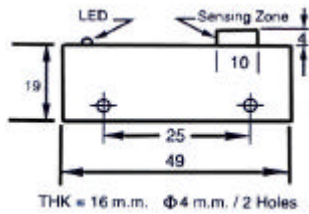
INDUCTIVE PROXIMITY SENSORS



These are DC type Proximity Sensors and the technical specifications are similar to that of standard DC type Inductive Proximity Sensors. These find application in CNC/NC machines or where space is the constraint. These are available in ABS plastic enclosures.



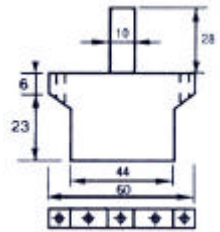
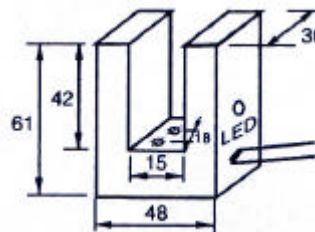
These are available only in DC type and the specifications of these Sensors match with our standard DC type Inductive Proximity Sensors. There are two models available - Flush and Non Flush mounting, housed in moulded ABS Plastic enclosures.



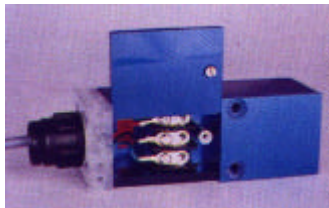
These are called as slot sensors or fork sensors and are available in DC (3 wire version). AC (2 wire version) and DC (2 wire version); Sensors with different sensing gap also can be manufactured on request.



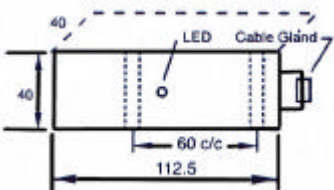
These are T type switches and are provided with oil ring. These are available in DC (3 wire) & AC (2 wire) versions with sensing distance as high as 4mm. The sensors are housed in moulded ABS plastic enclosures.



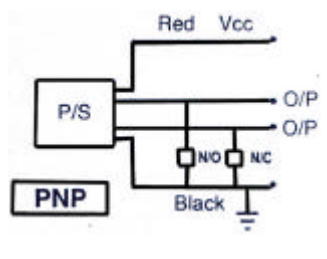
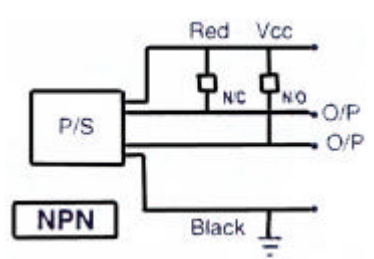
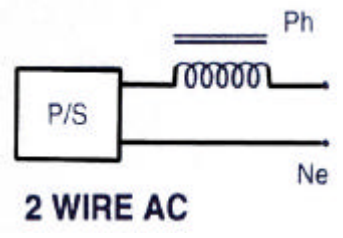
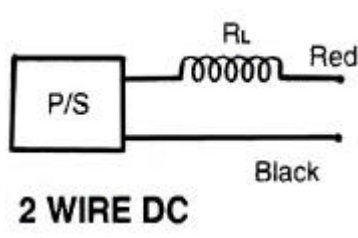
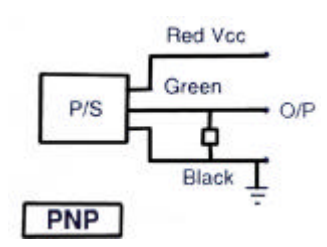
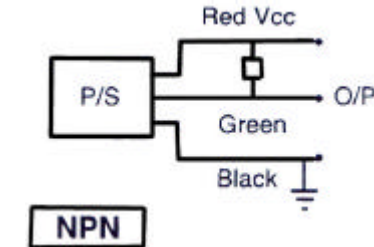
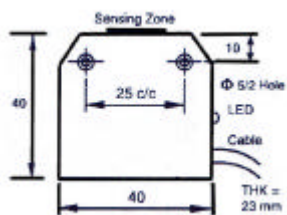
CONNECTION DIAGRAMS



These are called as Block type Proximity Sensors and are available in DC (3 wire/4 wire), DC (2 wire) and AC (2 wire) version. The sensing' Zone can be kept on any face of the sensor, making them front sensing, side sensing, Top sensing or Bottom sensing sensor.

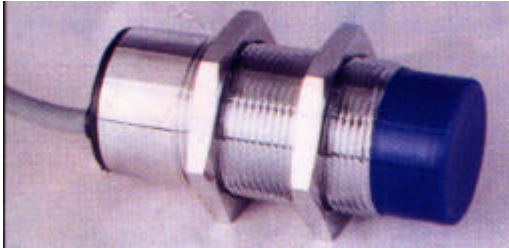


These are pentagonal Proximity Sensors and considered as better alternative to conventional limit switches. These are stackable type and the sensing distance can be as high as 5 mm. These are housed in cast Aluminum enclosures.



CAPACITIVE SENSORS

A Capacitive Proximity Sensor is designed to detect, and react to any object, which moves into the operating zone. The sensor contains an oscillator. The capacitance of this oscillator is linked with the sensing face and when any object moves into the operating zone, its capacitance activates the oscillator. The sensor can detect conductive as well as non-conductive material. It is advisable to have an object with permittivity more than one. The conductive objects are generally to be earthed for better results.



SPECIFICATIONS :

Housing	: Chrome plated Brass Housing with 2 lock nuts
Dimensions	: M30 X 1.5X70 mm length
Supply Voltage	: 10-30V DC
Output Transistor	: PNP or NPN
Output logic	: NO or NC
Reverse Polarity	
Protection	: Provided
Status Indication	: Thro' LED
Range Adjustment	: Thro' Potentiometer

NOTE ON SENSING DISTANCE :

The operating sensing distance (s) is generally 3/4th of nominal sensing distance (Sn). The nominal sensing distance is derived by testing with a standard metal target (ENS) of thickness 1mm and side dimensions equal to 3 X Sn.

The Product Range

- **INDUCTIVE PROXIMITY SENSORS**

2 WIRE AC MODEL

2 WIRE DC MODEL

3 WIRE DC MODEL

NAMUR

- **PHOTOELECTRIC PROXIMITY SENSORS**

THROUGH BEAM WITH CONTROLLER

THROUGH BEAM WITH BUILT-IN AMPLIFIER

DIFFUSE BEAM

RETRO - REFLECTIVE

- **CAPACITIVE PROXIMITY SENSORS**



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