



## Product Catalouge

*Disha Automation*

Appreciating Quality Automation

- ★ SENSORS
- ★ SSRs
- ★ SMPS
- ★ LIGHT CURTAIN



# DISHA AUTOMATION

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## M-18 (Input DC Voltage 3 Wire) LONG RANGE

Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
08 mm	PNP	NO	FLUSH	400Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA @12 V DC Switching Freq 500Hz LED Indication, Reverse Polarty, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable
16 mm			NON FLUSH	200Hz	
08 mm		NC	FLUSH	400Hz	
16 mm			NON FLUSH	200Hz	
08 mm	NPN	NO	FLUSH	400Hz	
16 mm			NON FLUSH	200Hz	
08 mm		NC	FLUSH	400Hz	
16 mm			NON FLUSH	200Hz	

All the above models are available in connector type version with suffix "P"

## M-18 (Input AC Voltage 2 Wire) STANDARD RANGE

Range (mm)	O/P	Mounting	Frequency	
05 mm	NO	FLUSH	25Hz	Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse-Suppression, PVC Cable,
08 mm		NON FLUSH		
05 mm	NC	FLUSH		
08 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P"

## M-18 (Input AC Voltage 2 Wire) LONG RANGE

Range (mm)	O/P	Mounting	Frequency	
	NO	FLUSH	25Hz	Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse-Suppression, PVC Cable,
14 mm		NON FLUSH		
08 mm	NC	FLUSH		
14 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P"

## M-18 (Input DC Voltage 2 Wire)

Range (mm)	O/P	Mounting	Frequency	
05 mm	NO	FLUSH	25Hz	Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse-Suppression, PVC Cable,
08 mm		NON FLUSH		
05 mm	NC	FLUSH		
08 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P"



# DISHA AUTOMATION

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## M-30 Input Voltage (2 Wire) AC - STANDARD RANGE

Range (mm)	O/P	Mounting	Frequency	Common Specs
10 mm	NO	FLUSH	25Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
15 mm		NON FLUSH		
10 mm	NC	FLUSH		
15 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P"



## M-30 (Input AC Voltage 2 Wire) LONG RANGE

Range (mm)	O/P	Mounting	Frequency	Common Specs
15 mm	NO	FLUSH	25Hz	Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse- Suppression, PVC Cable,
25 mm		NON FLUSH		
15 mm	NC	FLUSH		
25 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P"



## M-50 Input DC Voltage (3 Wire O/P) STANDARD RANGE

Range (mm)	O/P	Mounting	Frequency	Common Specs
25Hz	PNP	NO	NON FLUSH	Voltage 05-40 VDC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA LED Indication Reverse Pdaily Protected, Over Load Protected Short Circuit Proof, Switching Impulse Suppression, PVC Cable
		NC		
	NPN	NO		
		NC		



## M-50 Input DC Voltage (3 Wire O/P) LONG RANGE

Range (mm)	O/P	Mounting	Frequency	Common Specs
50Hz	PNP	NO	NON FLUSH	Voltage 05-40 VDC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA LED Indication Reverse Pdaily Protected, Over Load Protected Short Circuit Proof, Switching Impulse Suppression, PVC Cable
		NC		
	NPN	NO		
		NC		

## M-50 Input AC Voltage (2 Wire O/P) STANDARD RANGE

Range (mm)	O/P	Mounting	Frequency	Common Specs
25Hz	PNP	NO	NON FLUSH	Voltage 20-250 VDC Max Load Current <500mA Voltage Drop <2V DC Leakage Current <1.5mA LED Indication Switching Impulse Suppression, PVC Cable
	NPN	NC		



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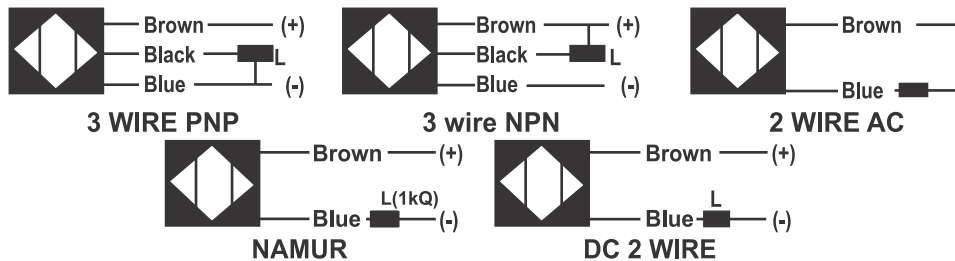
## Capacitive Sensors

Capacitive Type sensors detect the presence of any dielectric material in the proximity of its sensing face. They are used for detecting non-metallic objects, liquid level and other automation applications.



Sn (Adj)	Out. Dia	Logic	O/P	Freq			
04 mm	M-12	PNP	NO	100 Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA- @12 DC LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,		
			NC				
		NPN	NO				
			NC				
10 mm	M-18	PNP	NO				
			NC				
		NPN	NO				
			NC				
20 mm	M-30	PNP	NO	50 Hz			
			NC				
		NPN	NO				
			NC				
10 mm	M-18	—	NO	25 Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,		
			NC				
			20 mm			M-30	NO
							NC

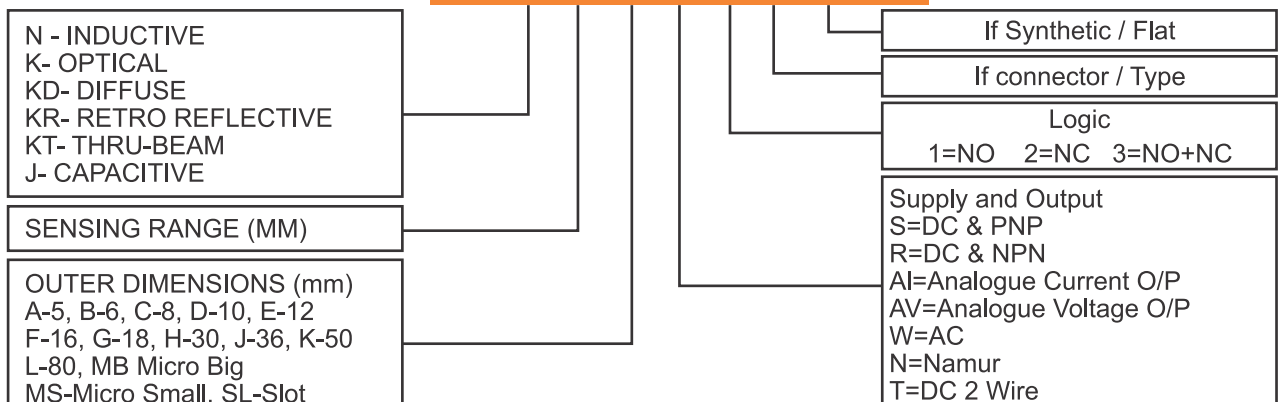
## Equivalent Connection Diagrams for



## Mechanical Data

- |               |  |
|---------------|--|
| 1- Housing:-  | Nickle - Chrome plated brass or ABS elastic housing                          |
| 2- Mounting:- | Through hole fixing by pair of check nuts or through pair of holes for screw |
| 3- Cable:-    | PVC Insulated heat resistant cable with standard length of 2 meters          |

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## M-50 Input AC Voltage (2 Wire O/P) - LONG RANGE



Range (mm)	O/P	Mounting	Frequency	Common Specs
40 mm	NO	NON FLUSH	25Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
	NC			
All the above models are available in connector type version with suffix "P"				

## M-50 Input DC Voltage (2 Wire O/P)



Range (mm)	O/P	Mounting	Frequency	Common Specs
25 mm	NO	NON FLUSH	25Hz	Voltage 20-110 V DC Max Load Current <400mA Voltage Drop <7V DC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
	NC			
All the above models are available in connector type version with suffix “P”				

## Micro Switch Type



Dimensions	Logic	Range	O/P	Common Specs
50x20x18 mm	PNP	4 mm	NO	Voltage 05-40 VDC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA Frequency <600 Hz
			NC	
	NPN		NO	
			NC	
10x15x28 mm	PNP	2 mm	NO	Reverse Polarity Protected, Switching Impulse, Suppression, PVC Cable.
			NC	
	NPN		NO	
			NC	

## Micro Switch Type



Slot Width	Slot Depth	Logic	O/P	Common Specs
05 mm	16 mm	PNP	NO	Voltage 10-35 V DC Max Load Current <200mA Voltage Drop <2V DC Leakage Current <8mA Frequency <800 Hz
		PNP	NC	
		NPN	NO	
		NPN	NC	
10 mm	32 mm	PNP	NO	Reverse Polarity Protected, Switching Impulse, Suppression, PVC Cable.
		PNP	NC	
		NPN	NO	
		NPN	NC	



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## Inductive Proximity Switches

Inductive Proximity Switches are used for non contact detection of ferrous (metallic) which find a very wide application in industrial process control. They are the preferred choice for the majority of application requiring accurate, non contact detections of metallic objects in machinery or automatic equipment, They work on electro Magnetic Principle and are resistant to atmospheric conditions like humidity, dust, oil, paint, etc. Low power consumption, availability in wide range of packages and low unit price has made them very popular in industry.

### Types

#### Standard Cylindrical Type

Inductive Sensors are available from M-5 to M-80 Diameters.

#### M-5-Input Voltage DC (3 Wire)

Range (mm)	Logic	O/P	Mounting	Common Specs
1 mm	PNP	NO	FLUSH	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA@12 V DC Switching Freq 1000Hz LED Indication, Reverse Polarity Protected, Switching Impulse Suppression, PVC Cable
		NC		
	NPN	NO		
		NC		

#### M-6.5- Input Voltage DC (3 Wire)

Range (mm)	Logic	O/P	Mounting	Common Specs
1.5 mm	PNP	NO	FLUSH	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA@12 V DC Switching Freq 1000Hz LED Indication, Reverse Polarity Protected, Over Load Protected Short Circuit Proof, Switching Impulse Suppression, PVC Cable
		NC		
	NPN	NO		
		NC		

#### M-8 (Input DC Voltage DC 3 Wire)

Range (mm)	Logic	O/P	Mounting	Common Specs
1.5 mm	PNP	NO	FLUSH	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA@12 V DC Switching Freq 1000Hz LED Indication, Reverse Polarity Protected, Over Load Protected Short Circuit Proof, Switching Impulse Suppression, PVC Cable
		NC		
	NPN	NO		
		NC		

All the above models are available in connector type version with suffix "P"

#### M-6.5- Input Voltage DC (3 Wire)

Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
02 mm	PNP	NO	FLUSH	1000Hz	Voltage 10-35 V DC Max Load Current <200mA Voltage Drop <2V DC Leakage Current <8mA Frequency <800 Hz
04 mm			NON FLUSH	800Hz	
02 mm		NC	FLUSH	1000Hz	
04 mm			NON FLUSH	800Hz	
02 mm	NPN	NO	FLUSH	1000Hz	Reverse Polarity Protected, Switching Impulse, Suppression, PVC Cable.
04 mm			NON FLUSH	800Hz	
02 mm		NC	FLUSH	1000Hz	
04 mm			NON FLUSH	800Hz	

All the above models are available in connector type version with suffix "P"





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## M-30 (Input DC Voltage 3 Wire O/P) STANDARD RANGE

Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
10 mm	PNP	NO	FLUSH	600Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA- @12 VDC Switching Freq 2000Hz LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
15 mm			NON FLUSH	500Hz	
10 mm		NC	FLUSH	600Hz	
15 mm			NON FLUSH	500Hz	
10 mm	NPN	NO	FLUSH	600Hz	
15 mm			NON FLUSH	500Hz	
10 mm		NC	FLUSH	600Hz	
15 mm			NON FLUSH	500Hz	
All the above models are available in connector type version with suffix "P"					

## M-30 (Input DC Voltage 3 Wire) LONG RANGE

Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
20 mm	PNP	NO	FLUSH	600Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA- @12 VDC Switching Freq 2000Hz LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
30 mm			NON FLUSH	500Hz	
20 mm		NC	FLUSH	600Hz	
30 mm			NON FLUSH	500Hz	
20 mm	NPN	NO	FLUSH	600Hz	
30 mm			NON FLUSH	500Hz	
20 mm		NC	FLUSH	600Hz	
30 mm			NON FLUSH	500Hz	

## M-30 (Input DC Voltage 2 Wire O/P)

Range (mm)	O/P	Mounting	Frequency	Common Specs
10 mm	NO	FLUSH	25 Hz	Voltage 20-110 V DC Max Load Current <400mA Voltage Drop <2V DC Leakage Current <1.5mA  LED Indication Switching Impulse Suppression, PVC Cable,
15 mm		NON FLUSH		
10 mm	NC	FLUSH		
15 mm		NON FLUSH		
10 mm	NO	FLUSH		
15 mm		NON FLUSH		
10 mm	NC	FLUSH		
15 mm		NON FLUSH		



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## M-30 (Input DC Voltage 3 Wire O/P) STANDARD RANGE

Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
04 mm	PNP	NO	FLUSH	500Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA- @12 VDC Switching Freq 500Hz LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
08 mm			NON FLUSH	300Hz	
04 mm		NC	FLUSH	500Hz	
08 mm			NON FLUSH	300Hz	
04 mm	NPN	NO	FLUSH	500Hz	
08 mm			NON FLUSH	300Hz	
04 mm		NC	FLUSH	500Hz	
08 mm			NON FLUSH	300Hz	
All the above models are available in connector type version with suffix “P”					

## M-12 (Input AC Voltage 2 Wire) STANDARD RANGE

Range (mm)	O/P	Mounting	Frequency	Common Specs
02 mm	NO	FLUSH	25 Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA- @12 VDC Switching Freq 2000Hz LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
04 mm		NON FLUSH		
02 mm	NC	FLUSH		
04 mm		NON FLUSH		
02 mm	NO	FLUSH		
04 mm		NON FLUSH		
02 mm	NC	FLUSH		
04 mm		NON FLUSH		

## M-18 (Input DC Voltage 3 Wire O/P) STANDARD RANGE

Range (mm)	O/P		Mounting	Frequency	Common Specs
05 mm	PNP	NO	FLUSH	800Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <BmA- @12V DC Switching Freq 2000Hz
08 mm			NON FLUSH	600Hz	
05 mm		NC	FLUSH	800Hz	
08 mm			NON FLUSH	600Hz	
05 mm	NPN	NO	FLUSH	800Hz	LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
08 mm			NON FLUSH	600Hz	
05 mm		NC	FLUSH	800Hz	
08 mm			NON FLUSH	600Hz	





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## Analogue - Output



Range (mm)	O/D	O/P	Common Specs
10 mm	M18	0-10 VDC	Voltage 15-40 V DC Linear Output Reverse Polarity Protected Low Leakage Current 3 Wire PVC Cable Mounting Non Flush
10 mm		0-20 mA	
20 mm	M30	0-10 VDC	
20 mm		0-20 mA	

## Inductive - Block (Rectangular)



Dimensions	Logic	O/P	Sn Range	Common Specs
18x18x36 mm	PNP	NO	08 mm	Voltage 05-40 V DC  Max Load Current <200mA  Voltage Drop <2V DC  Leakage Current <8mA,  Frequency <600 Hz  Reverse Polarity Protected,  Switching Impulse Suppression  PVC Cable
		NC		
	NPN	NO		
		NC		
18x18x25 mm	PNP	NO	06 mm	
		NC		
	NPN	NO		
		NC		
10x25x50 mm	PNP	NO	08 mm	
		NC		
	NPN	NO		
		NC		
30x30x54 mm	PNP	NO	15 mm	
		NC		
	NPN	NO		
		NC		
18x18x36 mm	PNP	NO	08 mm	
		NC		
	NPN	NO		
		NC		
18x18x56 mm	PNP	NO	08 mm	
		NC		
	NPN	NO		
		NC		
12x27x40 mm	PNP	NO	04 mm	
		NC		
	NPN	NO		
		NC		



# DISHA AUTOMATION

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## Photo Electric Sensor

### Type- Diffuse Scan

Transmitter and receiver are in the same housing. The IR beam emitted by the transmitter is Received by the receiver and an output pulse is achieved.

#### M-12 (Input DC Voltage 3 Wire)



Range (mm)	Logic	O/P	Frequency	Common Specs
100 mm	PNP	NO	400Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <12mA- @12 V DC Switching Impulse Suppression Reverse Polarity & Over Load Protected
		NC		
	NPN	NO		
		NC		
All the above models are available in connector type version with suffix "P"				

#### M-18 (Input DC Voltage 4 Wire) - STANDARD RANGE



Range (mm)	Logic	O/P	Freq.	Common Specs	
400 mm	PNP	NO+NC	400Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Reverse Polarity & Over Load Protected	Leakage Current <12mA @12 V DC Switching Impulse Suppression PVC Cable
	NPN				
All the above models are available in connector type version with suffix “P”					

#### M-18 (Input DC Voltage 4 Wire) - LONG RANGE



Range (mm)	Logic	O/P	Freq.	Common Specs	
1000 mm	PNP	NO+NC	400Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC	Leakage Current <12mA @12 V DC Switching Impulse Suppression
	NPN			Reverse Polarity & Over Load Protected	PVC Cable
All the above models are available in connector type version with suffix “P”					

#### M-18 (Input AC Voltage 2 Wire)



Range (mm)	O/P	Freq.	Common Specs	
200 mm	NO	25Hz	Voltage 90-250 V AC	Leakage Current <4.5mA
	NC		Max Load Current <400mA	Switching Impulse Suppression
Voltage Drop <5V AC				
PVC Cable				
All the above models are available in connector type version with suffix “P”				

#### M-30 (Input DC Voltage 4 Wire) - STANDARD RANGE



Range (mm)	Logic	O/P	Freq.	Common Specs	
1000 mm	PNP	NO+NC	300Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC	Leakage Current <12mA @12 V DC Switching Impulse Suppression
	NPN			Reverse Polarity & Over Load Protected	PVC Cable
All the above models are available in connector type version with suffix "P"					

#### M-30 (Input DC Voltage 4 Wire) - LONG RANGE



Range (mm)	Logic	O/P	Freq.	Common Specs	
2000 mm	PNP	NO+NC	200Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Reverse Polarity & Over Load Protected	Leakage Current <12mA @12 V DC Switching Impulse Suppression PVC Cable
	NPN				
All the above models are available in connector type version with suffix “P”					



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## Type- Slot Sensor - IR



Slot Width	Slot Depth	Logic	O/P	Freq
6 mm	6 mm	PNP	NO	200 Hz
			NC	
		NPN	NO	
			NC	
10 mm	32 mm	PNP	NO	
			NC	
		NPN	NO	
			NC	
20 mm	40 mm	PNP	NO	
			NC	
		NPN	NO	
			NC	
50 mm	42 mm	PNP	NO	
			NC	
		NPN	NO	
			NC	
Common Specs:-				
Voltage :- 10-35 VDC, Current Consumption :- 12 mA, Voltage drop :- <2.5 V DC, Housing :- ABS Plastic				

## Type- Thrubeam

Transmitter and Receiver are in separate housing facing each other with their optical areas. when ever the IR beam is interrupted a O/P Pulse is achieved.



Diameter	Sn Range (Adj)	Remarks
M-18	4 meters	Unit Contains two sensors one as transmitter other as receiver and a DIN RAIL Mount Control Box with a single change over relay O/P with a rating of 5 Amps/230 VAC
M-30	7 meters	
M-18	4 meters	Unit Contains two sensors one as transmitter other as receiver and a DIN RAIL Mount Control Box with a single change over relay O/P with a rating of 5 Amps/230 VAC and two timing control POT adjustable up to 10 sec Providing ON delay and OFF Delay
M-30	7 meters	

## Type- Thrubeam (inbuilt Amplifier)



Out. Dia	Sn (Adj)	Logic	O/P	Freq	Common Specs
M-18	4 meter	PNP	NO	50 Hz	Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <10mA Reverse Polarity Protected, Switching Impulse, Suppression, PVC Cable,  Units contains two sensors one as transmitter other as receiver having in built amplifiers so that they can be connected directly to any external DC supply and an output load can be operated
			NC		
		NPN	NO		
			NC		
M-30	7 meter	PNP	NO		
			NC		
		NPN	NO		
			NC		



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