





Product Catalouge



Appreciating Quality Automation

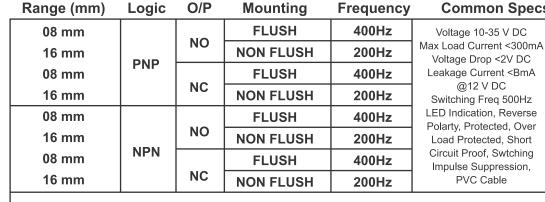


- **★ SENSORs**
- **★** SSRs
- **★** SMPS
- **★ LIGHT CURTAIN**



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





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

Common Specs

Voltage 10-35 V DC

Voltage Drop <2V DC

Leakage Current <BmA

@12 V DC

Switching Freq 500Hz LED Indication, Reverse

Polarty, Protected, Over

Load Protected, Short

Circuit Proof, Swtching

Impulse Suppression,

PVC Cable

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



05 mm FLUSH Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA	Range (mm) O/P	Mounting	Frequency	
08 mm NO NON FLUSH Voltage Drop <5V AC Leakage Current <1.5mA	''''''	FLUSH		
	08 mm NO	NON FLUSH	2511-	Voltage Drop <5V AC
		FLUSH	25HZ	
Suppression,		NON FLUSH		

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



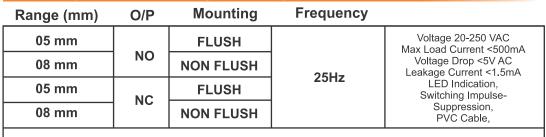
M-18 (Input AC Voltage 2 Wire) LONG RANGE

Range (mm)	O/P	wounting	Frequency	
		FLUSH		Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA
14 mm	NO	NON FLUSH	25Hz	
08 mm		FLUSH	2302	LED Indication, Switching Impulse-
14 mm	NC	NON FLUSH		Suppression, PVC Cable,

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



M-18 (Input DC Voltage 2 Wire)



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





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

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

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	
15 mm		FLUSH		Voltage 20-250 VAC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse-
25 mm	NO	NON FLUSH		
15 mm	NC	FLUSH	25Hz	
25 mm		NON FLUSH		Suppression, PVC Cable,

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

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

	Range (mm)	O/P	Moui	nting Fre	quency	
			NO			Voltage 05-40 VDC Max Load Current <300mA
	25Hz	PNP	NC	NON FLUSH	300Hz	Voltage Drop <2V DC Leakage Current <bma< th=""></bma<>
		NPN	NO			LED Indication Reverse Pdaily Protected, Over Load Protected
		NPN NC			Short Circuit Proof, Switching Impulse Suppression, PVC Cable	



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

Range (mm)	O/P	Mou	nting Fre	quency	
50Hz	PNP	NO	NON FLUSH	300Hz	Voltage 05-40 VDC Max Load Current <300mA
		NC			Voltage Drop <2V DC Leakage Current <bma< th=""></bma<>
	NPN	NO			LED Indication Reverse Pdaily Protected, Over Load Protected
	NPN NC			Short Circuit Proof, Switching Impulse Suppression, PVC Cable	



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

Range (mm)	O/P	Mou	nting Free	quency	
25Hz ⁻	PNP	NO	NON FLUSH	254-	Voltage 20-250 VDC Max Load Current <500mA Voltage Drop <2V DC
	NPN	NC	NON FLOSH	25Hz	Leakage Current <1.5mA LED Indication Switching Impulse Suppression, PVC Cable



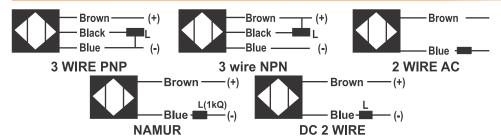
Capacitive Sensors

Capacitive Type sensors detcets the presence of any delectrics material in the proximity of its sensing face. The are used for detecting non metallic objects, liquid level and other automation application.



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Sn (Adj)	Out. Dia	Logic	O/P	Freq	
		PNP	NO		
	M-12	PNP	NC		Voltage 10-35 V DC
04 mm	101-12		NO	1	Max Load Current <300mA
		NPN	NC	1	Voltage Drop <2V DC
			NO	100 Hz	Leakage Current <bma-< th=""></bma-<>
		PNP	NC	1	@12 DC
10 mm	M-18		NO		LED Indication, Reverse Polarity, Protected, Over
		NPN	NC		
					Load Protected, Short
		PNP	NO	50 Hz	Circuit Proof, Switching
20 mm	M-30		INC.		Impulse Suppression,
	III 00	NPN	NO		PVC Cable,
		INFIN	NC		·
10 mm	M-18		NO		Voltage 20-250 V AC Max Load Current <500mA
10 111111	101-10	_	NC	25 Hz	Voltage Drop <5V AC
	NA 00		NO]	Leakage Current <1.5mA _LED Indication,
20 mm	M-30		NC	1	Switching Impulse Suppression, PVC Cable,

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 Insulted heat resistant cable with standards length of 2 meters

N 8 G S 1 If Synthetic / Flat N - INDUCTIVE K- OPTICAL If connector / Type **KD-DIFFUSE KR- RETRO REFLECTIVE** Logic KT-THRU-BEAM 2=NC 3=NO+NC 1=NO J- CAPACITIVE Supply and Output S=DC & PNP SENSING RANGE (MM) R=DC & NPN Al=Analogue Current O/P OUTER DIMENSIONS (mm) AV=Analogue Voltage O/P A-5, B-6, C-8, D-10, E-12 F-16, G-18, H-30, J-36, K-50 W=AC L-80, MB Micro Big N=Namur MS-Micro Small, SL-Slot T=DC 2 Wire



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



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

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
05	NO	NON FLUSH	25Hz	Voltage 20-110 V DC Max Load Current <400mA Voltage Drop <7V DC
25 mm	NC	NON FLOSH	25П2	Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,

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

Micro Switch Type



Dimensions	Logic	Range	O/P	Common Specs
			NO	Voltage 05-40 VDC
50x20x18 mm	PNP	4	NC	Max Load Current <300mA
50X20X16 mm	NPN	4 mm	NO	Voltage Drop <2V DC Leakage Current <8mA
			NC	Frequency <600 Hz
	DND			Reverse Polarity Protected,
10x15x28 mm	PNP	2 mm	NC	Switching Impulse, Suppression,
	NPN		NO	PVC Cable.
			NC	

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Micro Switch Type





Slot Width	Slot Depth	Logic	O/P	Common Specs
		PNP	NO	Voltage 10-35 V DC
05 mm	16 mm	PNP	NC	Max Load Current <200mA
	16 111111	NPN	NO	Voltage Drop <2V DC Leakage Current <8mA
		NPN	NC	Frequency <800 Hz
10 mm	32 mm	PNP	NO	Reverse Polarity Protected,
		PNP	NC	Switching Impulse, Suppression,
		NPN	NO	PVC Cable.
		NPN	NC	

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 dc<="" th="" v=""></bma@12>
		NC		
	NPN	NO		Switching Freq 1000Hz LED Indication, Reverse Polarity
		NC		Protected, Switching Impulse Suppression, PVC Cable

M-6.5- Input Voltage DC (3 Wire)

Kange (mm)	Logic	O/P	wounting	Common Specs
1.5 mm	PNP	NO NC	FLUSH	Voltage 5-40 V DC
1.5 111111	NPN	NO	1 20011	Max Load Current <300mA Voltage Drop <2V DC
M-8 (Input DC Voltage DC 3 Wire)				Leakage Current <bma@12 dc<="" th="" v=""></bma@12>
wi-o (iiipu	L DC VOI	tage DC	J WIII E J	Switching Freq 1000Hz
Range (mm)	Logic	O/P	Mounting	LED Indication, Reverse Polarity
	PNP	NO		Protected, Over Load Protected
1.5 mm	PNP	NC	FLUSH	Short Circuit Proof, Switching Impulse
	NPN	NO NC	. 19911	Suppression, PVC Cable

Common Space

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 F	requency	Common Specs			
02 mm		NO	FLUSH	1000Hz	Voltage 10-35 V DC			
04 mm	DND		NON FLUSH	800Hz	Max Load Current <200mA			
02 mm	PNP	NC	FLUSH	1000Hz	Voltage Drop <2V DC Leakage Current <8mA			
04 mm		NC	NON FLUSH	800Hz	Frequency <800 Hz			
02 mm		NO	FLUSH	1000Hz	Reverse Polarity Protected,			
04 mm			NO	NO	NO	NO	NON FLUSH	800Hz
02 mm	NPN		FLUSH	1000Hz	PVC Cable.			
04 mm		NC	NON FLUSH	800Hz				

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











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

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

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			FLUSH	600Hz	Voltage 5-40 V DC
30 mm	PNP	NO	NON FLUSH	500Hz	Max Load Current <300mA Voltage Drop <2V DC
20 mm		NO	FLUSH	600Hz	Leakage Current <8mA- @12 VDC
30 mm		NC	NON FLUSH	500Hz	Switching Freq 2000Hz
20 mm	NPN	NO	FLUSH	600Hz	LED Indication, Reverse Polarity, Protected, Over
30 mm		NO	NON FLUSH	500Hz	Load Protected, Short
20 mm		NC	FLUSH	600Hz	Circuit Proof, Switching Impulse Suppression,
30 mm		110	NON FLUSH	500Hz	PVC Cable,

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







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

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



















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

Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
04 mm			FLUSH	500Hz	Voltage 10-35 V DC
08 mm]	NO	NON FLUSH	300Hz	Max Load Current <300mA Voltage Drop <2V DC
04 mm	PNP		FLUSH	500Hz	Leakage Current <bma-< th=""></bma-<>
08 mm		NC	NON FLUSH	300Hz	@12 VDC Switching Freq 500Hz
04 mm			FLUSH	500Hz	LED Indication, Reverse Polarity, Protected, Over
08 mm]	NO	NON FLUSH	300Hz	Load Protected, Short
04 mm	NPN		FLUSH	500Hz	Circuit Proof, Switching Impulse Suppression,
08 mm]	NC	NON FLUSH	300Hz	PVC Cable,

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		FLUSH		Voltage 5-40 V DC
04 mm	NO	NON FLUSH		Max Load Current <300mA Voltage Drop <2V DC
02 mm	NC	FLUSH		Leakage Current <8mA- @12 VDC
04 mm	I NC	NON FLUSH	25 Hz	Switching Freq 2000Hz
02 mm	NO	FLUSH		LED Indication, Reverse Polarity, Protected, Over
04 mm	NO	NON FLUSH		Load Protected, Short
02 mm	NC	FLUSH		Circuit Proof, Switching Impulse Suppression,
04 mm	140	NON FLUSH		PVC Cable,

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

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

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



Analogue - Output

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Range (mm)	O/D	O/P	Common Specs
10 mm	M18	0-10 VDC	Voltage 15-40 V DC Linear Output
10 mm]	0-20 mA	Reverse Polarity Protected
20		0.40.VDC	Low Leakage Current
20 mm		0-10 VDC	3 Wire PVC Cable
20 mm	M30	0-20 mA	Mounting Non Flush

Inductive - Block (Rectangular)



Dimensions	Logic	O/P	Sn Range	Common Specs
	DND	NO		
18x18x36 mm	PNP	NC	08 mm	
TOX TOX SO IIIIII	NIDNI	NO	06 11111	
	NPN	NC		
		NO		Voltage 05-40 V DC
18x18x25 mm	PNP	NC	06 mm	
100 10025 111111		NO		
	NPN	NC		Max Load Current <200mA
		NO		
10x25x50 mm	PNP	NC	08 mm	Voltage Drop <2V DC
10x25x50 mm		NO		Voltage Drop \2V DC
	NPN	NC		
	PNP	NO	15 mm	Leakage Current <8mA,
30x30x54 mm		NC		
30X30X54 mm		NO		
	NPN	NC		Frequency <600 Hz
		NO	08 mm	
18x18x36 mm	PNP	NC		Barrers Balantin Bratania
100 100 111111		NO		Reverse Polarity Protected,
	NPN	NC		
		NO		Switching Impulse Suppression
18x18x56 mm	PNP	NC	08 mm	
100 100 111111		NO		
	NPN	NC		PVC Cable
12x27x40 mm		NO	04 mm	
	PNP	NC	04 111111	
12321340 111111	NIDNI	NO		
	NPN	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		NO		Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <12mA-
	PNP	NC	400Hz	
	NPN	NO	100112	@12 V DC Switching Impulse Suppression
	INPIN	NC		Reverse Polarity & Over Load Protected

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 Leakage Current <12mA @12 V D0	
400 111111	NPN	NOTIC	400112	Voltage Drop <2V DC Switching Impulse Suppression Reverse Polarity & Over Load Protected PVC Cable	
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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 Leakage Current <12mA @12 V D	
1000 111111	NPN	NOTIC	400112	Voltage Drop <2V DC Switching Impulse Suppression 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 Max Load Current <400mA Switching Impulse Suppression			
200 111111	NC	25HZ	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	OO mm		300H-	Voltage 10-35 V DC Max Load Current <300mA Leakage Current <12mA @12 V DC	
1000 111111	NPN	NO+NC	300112	Voltage Drop <2V DC Switching Impulse Suppression 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		200Hz	Voltage 10-35 V DC Max Load Current <300mA Leakage Current <12mA @12 V DC	
	2000 111111	NPN	INO+INC	20002	Voltage Drop <2V DC Switching Impulse Suppression Reverse Polarity & Over Load Protected PVC Cable	
All the above models are available in connector type version with suffix "P"						















DISHA AUTOMATION

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Type- Slot Sensor - IR









Slot Width	Slot Depth	Logic	O/P	Freq	
		DND	NO		
6 mm	6 mm	FINE	NC		
0 111111	0 111111	NPN	NO		
		141.14	NC		
		DND	NO		
10 mm	32 mm	PNP	NC		
10 mm	32 111111	NIDNI	NO		
		PNP NPN PNP NPN PNP NPN PNP	NC NC		
		DNID	NO	200 Hz	
20 mm	40 mm	NPN PNP NPN PNP NPN PNP	NC	200112	
20 111111	40 111111		NO		
		11111	NC		
	50 mm 42 mm	DNID	NO		
50 mm		42 mm	1 181	NC]
30 111111		NDN	NO		
		13114	NC		
	Comm	on Specs:-			

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.

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

Type- Thrubeam (inbuilt Amplifier)





	Out. Dia	Sn (Adj)	Logic	O/P	Freq	Common Specs
		4 meter	PNP	NO		Voltage 10-35 V DC Max Load Current <300mA Voltage Drop <2V DC
	M-18			NC		
	IVI= 10	4 1116161		NO		Leakage Current <10mA Reverse Polarity Protected,
			INFIN	NC	Suppression, 50 Hz Units contains two transmitter other a in built amplifiers so connected directly	Switching Impulse, Suppression, PVC Cable,
			PNP	NO		Units contains two sensors one as
	M-30 7	7 meter	FINE	NC		transmitter other as receiver having in built amplifiers so that they can be
		/ meter	NPN	NO		connected directly to any external DC supply and an output load can be
			INFIN	NC		operated



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