PROXIMITY SENSORS

INDUCTIVE PROXIMITY SENSORS

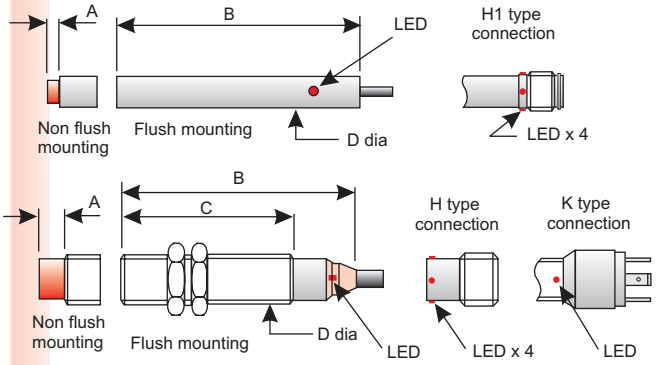
- Wide range of standard packages
- LED operation indicators
- NPN or PNP, NO and NC outputs
- Wide operating temperature range

These sensors create an inductive field in front of their active surface. When a metallic object enters this area the change in the field causes the output to switch. Available in a wide range of cylindrical, rectangular and ring types, these sensors are suitable for use in many applications, and are particularly suited to harsh environments. The Namur types meet the requirements of DIN standard 19234 and are suitable for use, in conjunction with intrinsically safe amplifiers, in environments where there is risk of explosion. Versions with extended sensing distances, circular H type and spade K type connectors are also available.

SPECIFICATION

Output :	NPN/PNP, NO or NC
Supply voltage :	Version N : 5 - 24Vdc
	Version A : 20 - 250Vac/dc
	Version B : 10 - 30Vdc
	Version C : 10 - 30Vdc
Sensing distance :	See part number
Switching frequency :	4, 5, 6.5 & 8 dia : 2000Hz
	12 dia : 1000Hz
	18 dia : 600-1000Hz
	30 dia : 300 Hz
Output current :	100 - 300 mA depending on type
Voltage drop :	Version A < 6V
	Version B <1.8V
	Version C <1.8V
Body material :	Stainless Steel up to M12
	Ni plated Brass M12 to M30
Temperature range :	-25 to 70ºC
Protection level :	IP67
Cable length :	2 metres

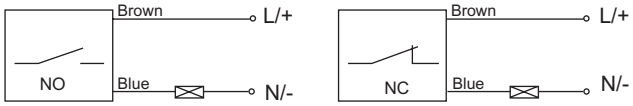
DIMENSIONS - see table



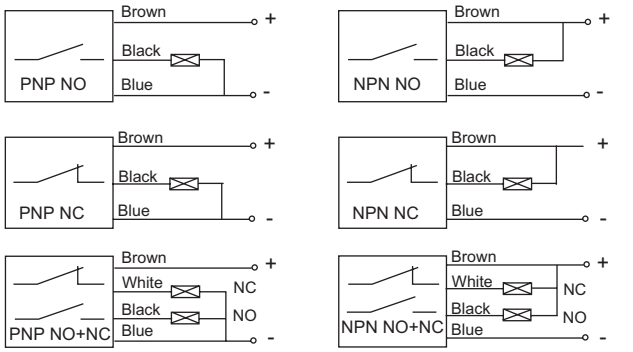
Type	Dimensions				Sensing dist		LED
	A	B	C	D	flush	proud	
SI4	-	28	-	4 dia	0.8	-	Y
SI5	-	20	23	M5 x 0.5	0.8	-	N
SI6.5s	2.5	35	-	6.5 dia	2.0	3.0	N
SI6.5	2.5	50	-	6.5 dia	2.0	3.0	Y
SI8s	2.5	35	-	M8 x 1	2.0	3.0	N
SI8	-	50	42	M8 x 1	2.0	-	Y
SI12s	4	41	28	M12 x 1	4.0	8.0	Y
SI12	4	61	42	M12 x 1	2.0	4.0	Y
SI18s	7.5	47	28	M18 x 1	8.0	16.0	Y
SI18	7.5	70	48	M18 x 1	5.0	8.0	Y
SI30s	15	43	27	M30 x 1.5	15.0	20.0	Y
SI30	15	68	50	M30 x 1.5	10.0	15.0	Y

CONNECTION DIAGRAMS

Version A/B



Version C/DC



Part Numbering Options : SI A - B C D E F

A	Sensor diameter	mm	4 5 6.5 8 12 18 30
B	Version	2 wire ac 2 wire dc 3/4 wire dc	A B C/DC
C	Mounting	Flush Non flush	- E
D	Sensing Distance	mm	
E	Output	See connection diagrams	NPN NO NPN NC PNP NO PNP NC NPN NO+NC PNP NO+NC NO NC
F	Connection	Cable H1 connector H connector K connector	- H1 H K

STANDARD ITEMS

This range of inductive sensors also covers rectangular and ring types with a wide variety of applications. 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.

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