



SI12 / SS12

PROXIMITY INDUCTIVE SENSORS



Inductive sensors

Main characteristics



SI12 is a proximity electronic switch based on the induction principle. Electric current generates a magnetic field, which collapses generating a current that falls asymptotically toward zero from its initial level when the input electricity ceases. The inductance of the loop changes according to the material inside it and since metals are much more effective inductors than other materials the presence of metal increases the current flowing through the loop. This change can be detected by sensing circuitry. Thanks to its high operating frequency, SI12 and SS12 represent a great solution in most mechanical application for automation when objects are moving fast.

Ordering code

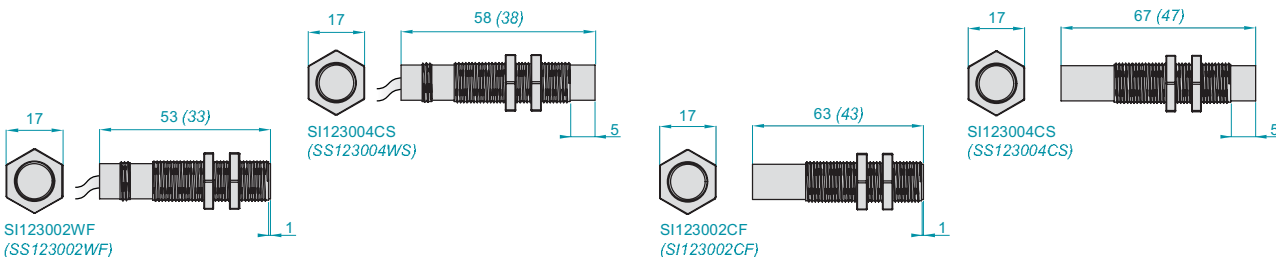
S	I	12	3	0	02	C	F	P	0
sensor S									
Model									
standard inductive I									
short inductive S									
Diameter									
Ø 12 mm 12									
Max power supply									
30 Vdc 3									
Sensing distance									
2 mm (with F version) 02									
4 mm (with S version) 04									
Output Type									
connector C									
cable W									
Version									
flush F									
noflush S									
Output electronic									
PNP P									
NPN N									
Output configuration									
NO 0									
NC C									

Technical Specifications

Model	standard or short
Version	Flush or noflush
Output type	connector or cable
Output electronic	PNP or NPN
Output configuration	NO or NC
Sensing distance	2 mm ± 15% max (flush) 4 mm ± 15% max (noflush)
Standard object detected	15x15x1 mm (stainless steel)
Power supply	10÷30 Vdc ± 10%
Voltage Drop	3 V max
Maximum current without load	15 mA max
Output current	200 mA max
Protection class	IP67
Working temperature	-25÷70 °C
Resistance insulation	>50 MΩ
Switching frequency	400 Hz
Protection against polarity inversion	yes
Housing material	metal

Mechanical dimensions

dimensions: mm



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