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SPECIFICATIONS

Outer shape		Model	Sensing distance(m/m)	Output	Response frequency	Power source
12Ø	a)===	SA-12MS	2	NO	20 Hz	AC 100~240V 50/60Hz

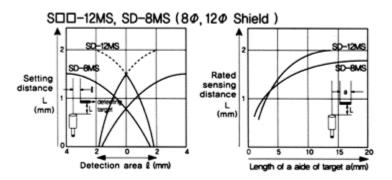
Mode	el	SA-12MS		
Shape	e	Shield		
Setting distance	ce(Rated)	$2 \text{ mm} \pm 10\%$		
Setting distence	ee(Actual)	0~1.4 mm		
Standard t	arget	Iron 12×12×t1 mm		
Hystere	esis	Less than 10% of the rated sensing distance		
Power so	urce	AC 100~240V (AC 90~250V) 50/60Hz		
Current cons	umption	Less than 2.5 mA		
Output	Load current	5~200 mA		
Justput	Residual voltage	Less than 10V		
Protection	circuit	Surge protection circuit		
Max. response	frequency	20Hz		
Environmental Resistance	Ambient temperature	-25 to +70°C, storage:-25~*80°C(Non-freezing condition)		
Resistance	Protection	IP67(IEC Specification)		
Cable		*Oil,heat and cold resistant cable *Cable type:cable with 2m *Connector type:cable SA-2I5, SA-2L5		
Accesso	ries	Nut:2pc Washer:2pc		

OUTLINE DIMENSIONS

Model	Shield type
SA-12MS	21 17 33 14 M12 P1

Sensing Fields(Typical)

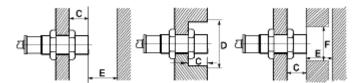
If detecting target with a smaller size than the standard target, the sensing distance will become shorter.





Sensors Embebed in Metal

If the sensor is completely embeded in metal, its sensing distance may decrease thus it shall be established with the following values as shown at Table 1.



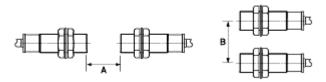
(Table 1.)

	Non-Shield			Shield		
	S□□-12M□ (8M)	S□□-18M□	S□□-30M□	S□□-12MS □ (8MS)	S□□-18MS□	S□□-30MS□
С	15(8)	22	30	0	0	0
D	36(24)	54	90	12(8)	18	30

Е	20(6)	40	70	8(4.5)	20	40
F	40(24)	70	90	18(12)	27	45

Mutual Interference

When mounting plural proximity switches in parallel or face to face, allow the clearance listed in the table2. below to avoid mutual interference.



(Table 2.)

	Non-Shield			Shield		
	S□□-12M□ (8M)	S□□-18M□	S□□-30M□	S□□-12MS □ (8MS)	S□□-18MS□	S□□-30MS□
A	24(16)	48	90	12(9)	30	60
В	36(24)	54	90	24(16)	36	60

Sensing distance, Correction coefficient

The sensing distance listed in this specifications is for the standard target. For non-ferrous object detection, the sensing distance will be obtained by multiplying the correction coefficient.

Target	Iron	SUS 304	Brass	Aluminum
All models	1.0	Approx. 0.7	Approx. 0.4	Approx. 0.35

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