Model MDS-X25CM Ultra-high Sensitive Inductive Sensor

□Model List

Power supply voltage	Standard Frequency	Different Frequency
12V to 24 V DC	MDS-X25CM	MDS-X25CMB
5 V DC	MDS-X25CM5	MDS-X25CM5B

Application

- Iron sheet detection
- Slot medal detection
- Detection of pachinko balls
- Detection of coins
- Detection of medals level
- Detection of pachinko balls level

Features

- Economical and easy to use open collector output inductive sensor.
- External light, dirt and dust do not affect operation.
- Perfect for metal and other detections such as pachinko balls, medals and level detection with its long detection distance.
- The different frequency type MDS-X25CMB is also available to prevent interference when two sensors are installed together.

Rating / Performance

Model	**MDS-X25CM**	**MDS-X25CM5**
Detection Surface	Upper side detection	
Detection Distance	25.0 mm	
Hysteresis	0.1 mm or more	
Standard Detection Target	Iron sheet of 100 × 100 mm and 1 mm in thickness	
Power Supply Voltage	12 V to 24 V DC (Operating voltage range : 10.8 V to 26.4 V DC)	5 V DC (Operating voltage range : 4.5 V to 5.5 V DC)
Current Consumption	10 mA DC or less	
Output	30 V DC 70 mA DC or less NPN transistor open collector	
Operation Status	Normally open (ON output when detecting)	
Operation Indicator	Red LED (Lit when the output is ON)	
Response Frequency	100 Hz or more	
Temperature Range	-10 to 50 °C (Without dew condensation or icing)	
Humidity Range	35 to 85% RH (Without dew condensation)	
Protection	IP50	
Case Material	ABS	
Connector	Connector : S3B-PH-K-S (from J.S.T. Mfg. Co., Ltd.) [Connections] Housing : PHR-3, Contact : SPH-002T-P0.5 (from J.S.T. Mfg. Co., Ltd.)	
Weight	Approx. 35 g	
Options (Sold Separately)	Connector harness : CNH-PHR03S24-300	

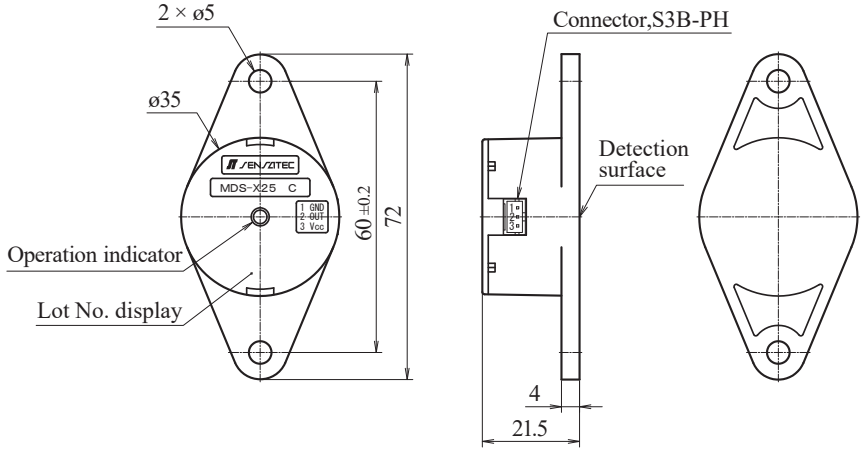
Typical Values

Detection target	Operation distance
100 × 100 × t1 Iron sheet	25.0 mm
Stainless Iron medal	15.1 mm
Daika medal	14.9 mm
Bimetallic medal	15.0 mm
Nickel silver medal	12.0 mm

Detection target	Operation distance
Nickel medal	9.4 mm
Golden nickel silver medal	9.4 mm
Brass Kirinsu medal	9.8 mm
Gold plated medal	9.4 mm
Pachinko ball(Front side)	8.5 mm

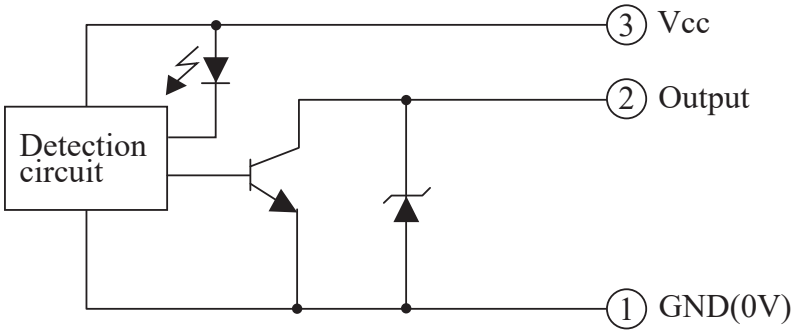
Head Office – laboratory – Kyoto Factory:
3-27-12 Oichonamikawa Kameoka-shi Kyoto-fu 621-0013,JAPAN
E-mail : info@sensatec.co.jp

Outline Dimensions



Pin Number	Signal Name
1	GND(0V)
2	Output
3	Vcc

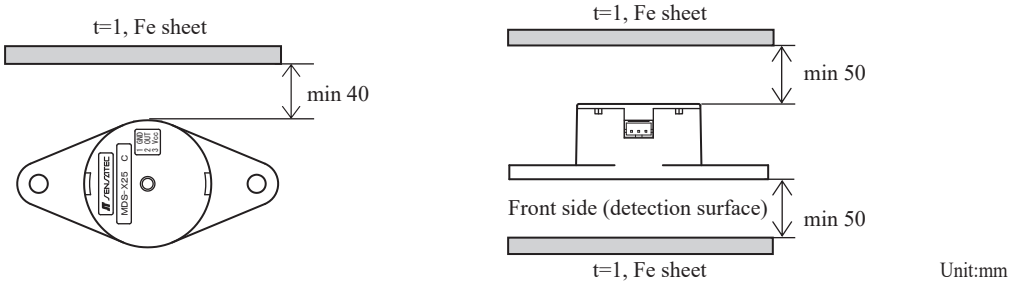
Output Circuit



Precautions During Use

- Influence of surrounding metal

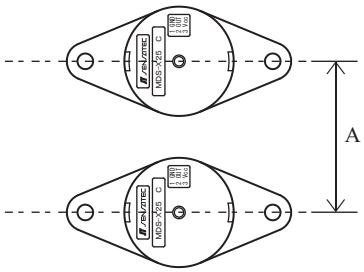
If there are metal objects around the inductive sensor, leave at least the space indicated in the figure below between them and the sensor.



Unit:mm

- Mutual interference

If you use a number of the same product, separate them at least by the distances shown in the figure below to prevent reciprocal interference. (Sensors with a different frequency are indicated with a B after the model name.)



	When they have the same frequency	Combination with different frequencies
A	200	60

Unit:mm

-Mounting

Always use plain washers to tighten the case and use a torque of 0.5 N·m or less.

- See inductive sensor general Precautions During Use for other precautions.

*For a detailed specification of the other, please refer to specifications.