

Sensor for Production and Quality Control

Sensor



MDS 70-O-640

MDS 70 - O - 640



Features :

- O-shaped sensor for non-contact operation
- detection of metallic parts, here metallic labels
- easiest start up
- no re-calibration needed
- stand alone operation, direct connection to external PLC
- wide gap, wide sensing area
- PNP switching output version
- +24VDC +/- 10% operation voltage
- robust aluminium housing 640 x 140 x 100 mm

Description :

The MDS 70-O-640 is a compact and robust sensor using an unique inductive sensor technique as well as highly sophisticated electronics. The MDS 70-O-640 covers solutions of a wide range of applications, where metallic or metallised objects must be detected, counted or otherwise registered. Metallic foreign bodies are detected and can be ejected to avoid bad products. The MDS 70-O-640 is delivered by the manufacturer according customers demands. This concerns both the kind of metallic parts to be detected and the adjustment of the sensor. So normally no re-adjustments by the customer are needed.

The MDS 70-O-640 is easily mounted in production machines, where endless or intermittently aligned products or continuous materials must be controlled due to metallic parts. Once the metallic part is detected within the sensing area the switching output signalises its detection. Production speed may be up to 15m/sec. and higher. For vibration reduced mounting rubber buffer are used, that are included in the delivery extent.

The MDS 70-O-640 operates with 24VDC. Its PNP switching output can be directly connected to the control unit of the production machine. An occurring metallic part is detected and the corresponding output signal is delivered, when the metallic part is within the sensing area (the sensor tunnel).

Several LED indicators show the status of the sensor and give helpful information.

Delivery Extent :



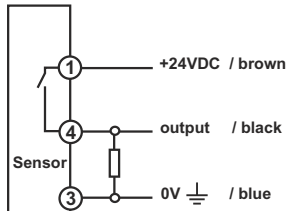
- 1 piece sensor MDS70-O-640
- 1 piece sensor cable
- 6 pieces rubber buffers
- 1 piece operation manual

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Plug Connector :

Sensor version : switching output, PNP

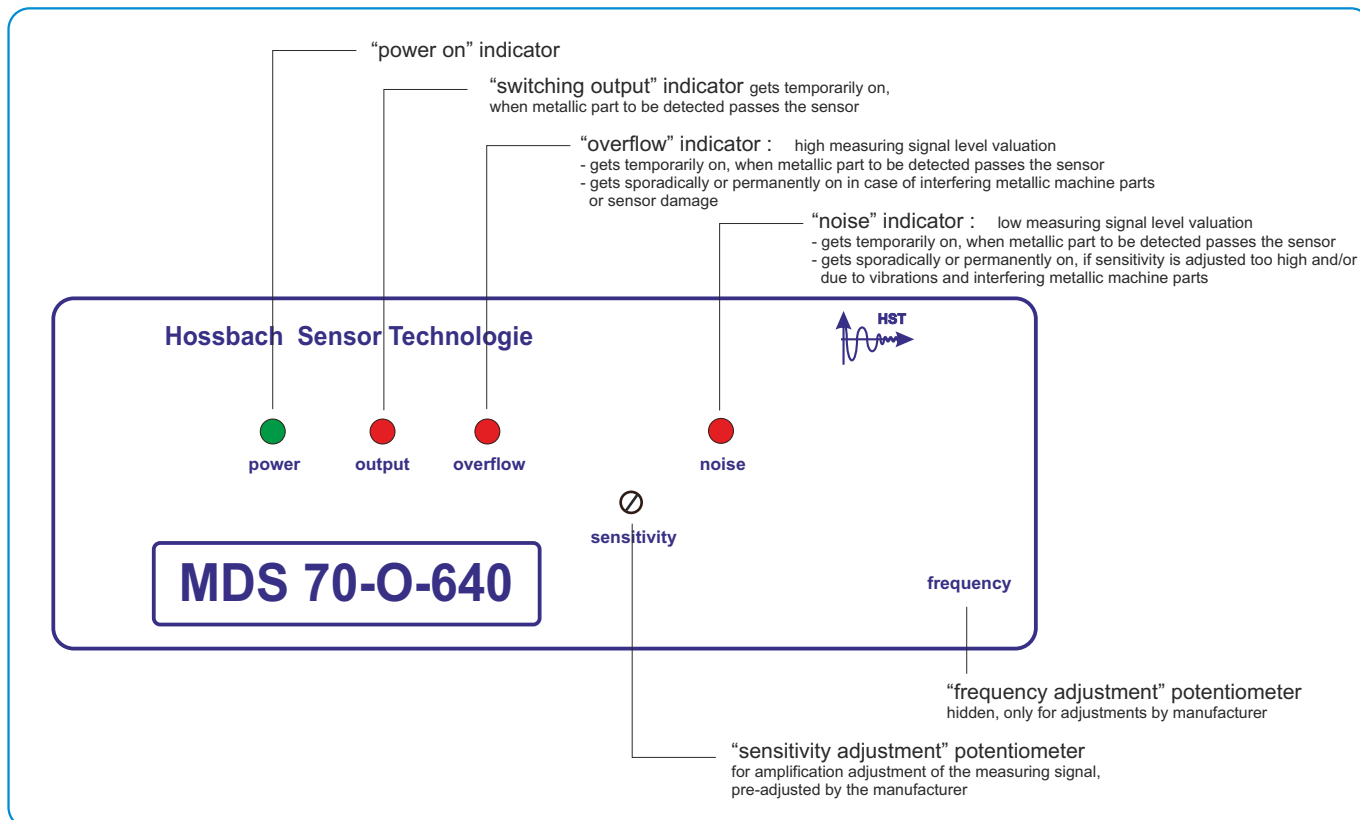
sensor version switching output	4 pin	female connector		cable
	pin 1	power supply	+24V	brown
	pin 3	power supply	0V/GND	blue
	pin 4	switching output	"0V/24V"	black



PNP



Panel Elements :



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Technical Data :

sensitivity :	high	output :	switching output, 24V, PNP	operation temperature range :	10°C ...40° C
measurement mode :	dynamically, i.e. moving metallic parts	operation voltage :	+24VDC +- 10%	storage temperature range :	0°C ...50°C
detectable objects :	metallic parts, metallised labels	operation current :	60 mA typ.	meets or exceeds standard and requirements :	EN 55011:2007 limit class A EN 61326-1:2006
reaction time :	< 1ms	mounting :	6 pre-drilled bolt holes, M6 on bottom side	protection type :	IP 60
max. line speed :	> 15m/sec.	dimension :	640 x 100 x 160 mm		
detection signal duration :	> 30ms	weight :	approx. 8,5 kg.		
active sensor area :	440 x 60 mm				
gap height :	20 mm				



Order Data :

sensor version	order no.
MDS 70-O-640 for metal detection	MDS70-O-640-INT-PNP
sensor including 5m connection cable with blank ends	

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Dimension : [mm]

