

Datasheet standexelectronics.com

S12H-275VPA-RGCB2

Analog Ferrous Metal Position Sensor

- > Analog Hall Proximity Sensor
- > .4" detection gap
- > 0-5V output
- Stainless 12x1mm x 52mm housing
- > Integral 4 pin male 12mm micro connector



CUSTOMER FOCUSED ENGINEERING + MODULAR DESIGN

Part Description: $\underline{S12H} - \underline{275VPA} - \underline{RGCB2}$

Housing	Sensor Type & Function	Electrical Option	Connection Type
S = Stainless Steel, Thread	Analog Ferrous Metal	Regulated Input	CB2 = Integral 4 Pin Male
Pitch M12x1, 52mm Long	Position Sensor	0-5V Analog Output	12mm Micro Connector

Modify, update, or enhance any sensor with our modular features and functionality.

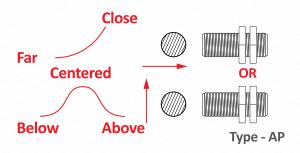
HOUSING -Aluminum, stainless steel, plastic, threaded, flange mount, customer specific

ELECTRICAL - Every sensor function available in various electrical options (NPN, PNP, TTL, etc.)

CONNECTION - Deutsch, Amphenol, many other brands, free end wires, pigtails, any length

Need a Custom Sensor Solution?... Send us your application specific requirements at <u>sensorso.com</u>

'Analog Output Proportional to Ferrous Metal Proximity



DESCRIPTION

- Analog output increases as ferrous metal approaches, decreases as target moves away
- Standard programming goes from 0.5V with no metal present to 4.5V when contacting steel plate.
- Target detection gap is dependent on shape/size/ferrous content.
- Custom programming available for precision repeatable detection of target positions, contact Sensor Solutions.
- Provided lock nuts used to set air gap from target.

FEATURES

- Lower Cost OEM Design
- Wide Temperature Range
- Detects Through Aluminum
- Shock and Vibration Resistant



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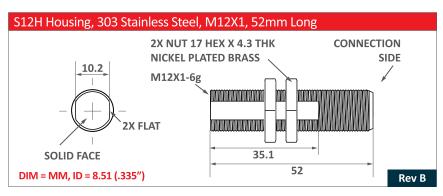
Note: Check our website or contact us for details on all our ferrous metal detection options.

Electrical Specifications	Conditions	Min	Max	Unit
Temperature Range*	Operating	-40	+110*	Deg C
Supply Voltage, Vcc	Operating	+8	+30	Volts DC
Supply Current	Into Vcc	2.5	12	mA
Output Current	Recommended	-2	+2	mA
Load Capacitance	Cable and Load	n/a	+1.0	μF
Frequency Range **	Programmable	0	500**	Hz
Saturation Voltage Low	I sink < 1.0 mA	0	.35	Volts
Saturation Voltage High	I source < 1.0 mA	4.65	Vcc	Volts
Impulse Response Time	500 Hz Freq. Range	2 typ	4	mS

^{*} T max = 150°C is available, contact factory.

** Can be programmed for operation 2000 Hz, contact factory.

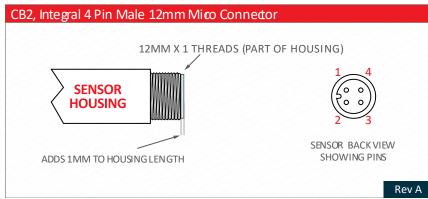
Rev A



Absolute Max Limits	Min	Max	Unit
Supply Voltage, Vcc	-16	30	Volts
Supply Voltage, <10 min	-5	+8.5	Volts
Continuous Output Current	-10	+10	mA
Vout Short Circuit Duration	-	3	Minutes
ESD	-7	+7	kVolts
Load Dump, 40 ms	-	40	Volts

Environmental Specifications				
Corrosion Resistance 500 hours salt spray ASTM B-11				
Installation Torque	23 Foot-Pounds Maximum			
Enclosure	Nema 1,3,4,6,13 & IEC IP67			
Vibration	10 G's 2 to 2000 Hz Sinusodal			
Mechanical Shock	100 G's, 11 mS Half-Sine			

Functional Characteristics 900-12-000 w/Large Steel Target	Min	Тур	Max			
For Sensors with Custom Programming, these values may change						
Voltage at Infinity	0.40V	0.50V	0.60V			
Voltage at 0"	4.25V	4.50V	4.75V			
Conformity to Curve	-250V	-	+250V			



Conne	ections Chart		
Pin 1	Vcc	Pin 3	Ground
Pin 2	Analog Vout	Pin 4	Program/LEAVE OPEN
	CB2	2-275VI	PA



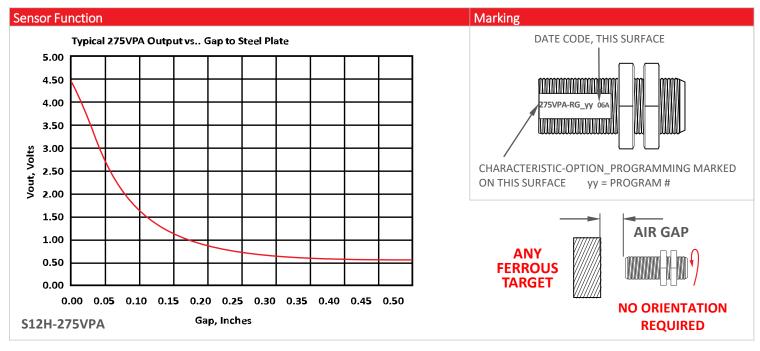
OTHER MATING CONNECTORS AND CABLES AVAILABLE

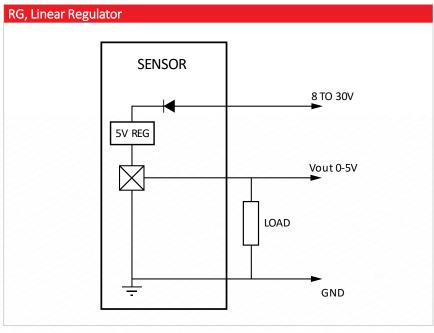


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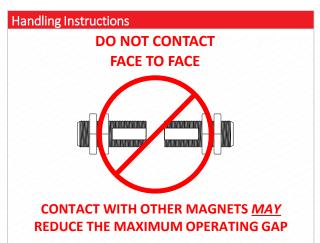
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Date Code 'YYM'		YY = YEAR, M = MONTH			
Α	JAN	D APR		H JUL	L OCT
В	FEB	E MAY		J AUG	M NOV
С	MAR	G JUN		K SEP	N DEC



Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.

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