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3 4 5 6

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2

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Output

Selection

A or B A and B

ø2.50"

(64mm)

Mode

Switch

Forward LED

> 1.4" (36mm) MAX.

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PRODUCT DESCRIPTION

SPECTEC's directional preamplifier for passive magnetic VRS sensors is designed to convert the sinusoidal signals from two matching magnetic VR type sensors into stable square wave pulses. It provides relative directional data from the two sensors through the signal out terminal and LED indicators. For prover applications, an (x2) output is provided, which is derived from the input of Coils A & B. It is designed to fit a GAUL-16 or similar standard explosion proof juction box.

For Class I, II, III, Division 1 applications refer to IS4033. For Class I, Division 2 applications refer to N4033.

SPECIFICATIONS Supply Voltage & Current:	7.5-36Vdc @ ≤ 3mA for 0-5Vo 13-36Vdc @ ≤ 12mA for 0-12Vo 3.6Vdc min. @ ≤ 20mA for 0-Vs	Reverse
Output Voltage:	See options below (@ < 20mA sink)	LED [10 3 6 7]
Frequency Range:	~5 Hz to 10 kHz Up to 40 kHz with increased signal	10
Input Sensitivity:	See options below	
Output Mode:	A or B: Only Channel A provides a signa in Forward Direction, and only Channel B provides a signal in Reverse Direction A and B: Both Channel A & B always provide a signal	1 0.50" (13mm)
Direction:	Forward (A before B): 0 Vdc Reverse (B before A): 5 Vdc	1.90" (48mm)
Rise/Fall Time:	.03 μs nominal	TERMINAL CONNECTIONS
Temperature Range:	-40° to 185°F (-40° to 85°C)	1 - Supply Voltage7 - Coil A + (white)2 - Common8 - Coil A - (black)3 - Direction9 - Coil B + (white)4 - Output Signal A10 - Coil B - (black)
Construction:	Plastic housing Solid Epoxy Encapsulation	 4 - Output Signal A 5 - Output Signal B 6 - Output Signal x2
Compliance:	CE: EN55011, EN50022-2	
FEATURE SELECTION 4033- x x Signal 0ptions Output 1 -	 x Mag Preamp Directional 1 - Standard (A or B Output Mode) 2 - Standard (A or B Output Mode) w/ LEE 3 - Selectable Output Mode 4 - Selectable Output Mode w/ LED 0-5V, NPN 	SENSOR POSITIONING
3 -	0-12V, NPN 0-Vs, NPN OC	* Position sensors relative to target electrically 90° (±30°) B
	iVpp (Standard) Vpp (High)	* out of phase. –
For explosion proof junc	ction box refer to bulletin 4001.	TARGET FORWARD SENSOR B

CE

ø0.144

(3.6mm)