

GCSA Gray Code 11 Bit Encoder

Electrical Specifications

Electrical Specifications		TRD-NAxxxxNWD	
Power Supply	Operating Voltage *	10.8–26.4 VDC	
	Allowable Ripple	3% rms max	
	Current Consumption	70mA max per encoder	
Output Waveform	Output Code	Gray binary	
	Max Response Frequency	20kHz	
	Accuracy	0.087 degrees	
Output	Rising/Falling Time **	2.0 μ s max (@1k Ω load resistance)	
	Output Configuration	NPN open collector	
	Output Logic	Negative logic (active low)	
	Sinking Current	32mA max	
	Residual Voltage	0.4 V max @ ≤16mA	
		1.5 V max @ >16mA to 32mA	
	Load Power Supply Voltage	35VDC max	
	Short Circuit Protection	Not protected	
 * To be supplied by a class II source. ** With a Cable of 2m or less. 			

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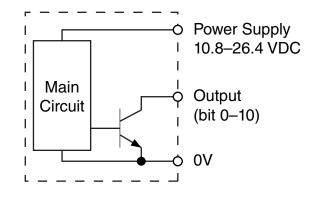
Wiring Connections

	Wire Color	Wiring Connection
	Blue	0V
	Brown	12/24V
	Black	Bit 0 (2°)*
	Red	Bit 1 (2 ¹)*
	Orange	Bit 2 (2 ²)*
	Yellow	Bit 3 (2 ³)*
	Green	Bit 4 (2 ⁴)*
	Purple	Bit 5 (2 ⁵)*
	Gray	Bit 6 (2 ⁶)*
	White	Bit 7 (2 ⁷)*
	Black/White	Bit 8 (2 ⁸)*
	`\\Red/White	Bit 9 (2 ⁹)*
	`\\Orange/White	Bit 10 (2 ¹⁰)* (MSB)
	` <u>Shield</u>	GND**

 * Numbers in parentheses () are the bits corresponding to binary code.

** Cable shield is not connected to the encoder body; the enclosure is grounded through the 0V wire.

Output Circuit





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