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510E1A48F209PC



510 Series Encoder, Mechanical 9 pulse/ rev/channel 2-bit Gray code

Actual product appearance may vary.

Features

- Cost effective, eliminates need for A/ D converters
- High resolution up to 36 positions
- Stability from -40 °C to 105 °C [-40 ° F to 221 °F]
- Horizontal and vertical mounting

Potential Applications

- Level control
- Cursor control
- Frequency control
- Temperature control
- Time Control
- Position sensing

Description

The 510 Series controls are manually operated, rotary, mechanical encoders that provide a two-bit gray code for relative reference applications and a four-bit gray code for absolute electrical reference applications. The "L" channel leads the "R" channel by 90 deg. electrically in the Clockwise position. It features continuous electrical travel and has a rotational life of more than 100,000 shaft revolutions with a positive detent feel.

This series is relatively small in size measuring 21,08 mm [0.83 in] - square by 8.71 mm [0.343 in] - deep. They are commonly used in limited-space panelmounted applications where the need for costly, front-panel displays can be completely eliminated. Digital gray-code outputs eliminate the need for A/D converters.

Supporting Documentation

Dimensions

Accessories: **Mounting Bracket** Output Table

Product Specifications Encoder Type Mechanical Pulse Per Revolution 9 cycles/rev Detents 36 Pulse 1/4 cycle per detent Dome Switch Nο Output 2-bit gray code, Channel L leads Channel R by 90° electrically in clockwise direction Contact resistance 5 Ohm Open Resistance 100 k0hm Contact Rating 28 Vdc max at 250 mA Jitter (Bounce) 5 ms/cycle at 15 RPM

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	Electrical Travel		Continuo	JS	
	Operating Speed		50 RPM		
	Operating Torque		0,0216 N in to 5.0	m to 0,036 N m [3.0 oz oz in]	<u>.</u>
	Panel Mounting Torque		1,13 N m	[7.0 lb] max.	
	Body Size (Single Module)		21,1 mm mm [0.00	[0.83 in] square, ±0,12 05 in]	27
	Terminals		PC termir (Vertical	nals bent back Type C-30 mount)	Э
	Housing Type		Molded th	nermoplastic	
	Mechanical Travel		Continuo	ıs	
	Rotational Life			detented cycles at rated cal (1 cycle=720 degrees	
	Shaft Pull Force		4,536 kg	[10 lb]	
	Shaft Side Load Force		1,13 N m	[7 lb in] max.	
	Shaft Material		Plastic		
	Shaft Diameter		6,35 mm	[0.25 in]	
	Shaft Length		19,05 mn	n [0.75 in]	
	Bushing Material		Plastic		
	Bushing Diameter		9,53 mm	[0.375 in] x 32 NEF-2A	
	Bushing Length		6,35 mm	[0.25 in]	
	Operating Temperature		-40 °C to	105 °C [-40 °F to 221 °	°F]
	Storage Temperature		-55 °C to	120 °C [-67 °F to 248 °	°F]
	Humidity		Insulation	at 25 °C [77 °F] n resistance 1 MOhm r MIL-STD 202, 06C	
	Shock		Per MIL-S Condition	GTD-202; method 213, G	
	Series Name		510		
	Availability		Global		
	UNSPSC Code		30211929	9	
	UNSPSC Commodity		30211929	9 Encoders	

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