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510E1A48F209PB Encoders

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Actual product appearance may vary.

Overview

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

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Application Notes

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Encoder Type Mechanical Pulse Per Revolution 9 cycles/rev

Specs

Detents

Pulse 1/4 cycle per detent

Dome Switch No

Output 2-bit gray code, Channel L leads Channel R by 90° electrically in clockwise

direction

Contact Resistance Open Resistance 100 kOhm

Contact Rating 28 Vdc max at 250 mA Jitter (Bounce) 5 ms/cycle at 15 RPM Dielectric Withstanding 1000 Vac at sea level Voltage

Electrical Travel Continuous Operating Speed 50 RPM

0,0216 N m to 0,036 N m [3.0 oz in to 5.0 oz in] Operating Torque

Panel Mounting Torque 1,13 N m [7.0 lb] max.

Body Size (Single

Module)

21,1 mm [0.83 in] square, ±0,127 mm [0.005 in]

PC terminals straight Type B-110 (Horizontal mount) **Terminal**

Housing Type Molded thermoplastic

Mechanical Travel Continuous

Rotational Life 100,000 detented cycles at rated load typical (1 cycle=720 degrees)

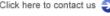
Shaft Pull Force 4,536 kg [10 lb] Shaft Side Load Force 1,13 N m [7 lb in] max.

Shaft Material Plastic

Shaft Diameter 6,35 mm [0.25 in] Shaft Length 19,05 mm [0.75 in]

Bushing Material

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]

90% RH at 25 $^{\circ}\text{C}$ [77 $^{\circ}\text{F}]$ Insulation resistance 1 MOhm max.; Per MIL-STD 202, Methiod106C Humidity

Shock Per MIL-STD-202; method 213, Condition G

Series Name 510 Availability Global UNSPSC Code 30211929

UNSPSC Commodity 30211929 Encoders

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