Model 50386SE-105
SDI-12 Shaft Encoder

Description

The Model 50386SE-105 SDI-12 Shaft Encoder is a low power shaft encoder designed for battery powered field operation for the measurement of water level or floodgate position. The internal microprocessor allows the encoder to emulate an absolute encoder. The user may set the initial water level, read and adjust subsequent levels through the SDI-12 interface. The encoder operates with standard float tape or bead chain pulleys and float hardware.

Specifications

Power
- Voltage: ..... 10 to 16 Vdc, reverse polarity protected
- Current: ..... < 2 mA at 12.5 Vdc, 25 mW standby, 15 mA at 12.5 Vdc, 63 mW active

Measurement range
- English format: ..... ± 99999.99 with 100 counts per revolution
- Metric format: ..... ± 9999.999 with 375 counts per revolution

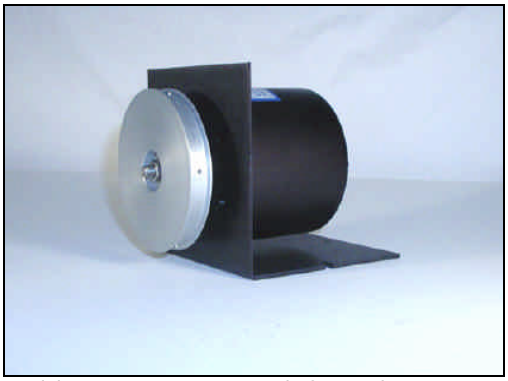
Resolution
- 1 ft pulley: ..... 0.01 ft (standard)
- 375 mm pulley: ..... 1 mm

Starting torque: ..... 0.1 oz-in nominal
Serial interface: ..... SDI-12 (Serial ASCII output) per SDI-12 protocol specifications
Lightning/ESD protection: ..... Internal spark gap and transient suppressor diodes
Operating Temperature: ..... -40 to 60 °C
Connectors: ..... MS 4-pin male
Dimensions: ..... 5 in. x 5 in. x 4.75 in.
Weight/Shipping weight: ..... 2 lbs.

Ordering Information

50386SE-105 ..... SDI-12 Shaft Encoder
50386SE-105-T ..... SDI-12 Shaft Encoder, with optional threaded shaft
280-356 ..... Pulley, 12-in circumference
280-364 ..... 4-in Float, with counterweight
280-359 ..... 10-in Float, with counterweight
280-360 ..... 20-ft Float Tape, 2.4-in spacing, for 12-in pulley
280-363 ..... 4-in Float, with counterweight and 20-ft float tape
280-991 ..... Signal Cable, per foot (200 feet max)

Note: Additional size pulleys, floats, and counterweights are available. Consult factory.



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