



ELTOMATIC

Complete solutions between meter and computer

Shaft Encoder type 02-07



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Shaft encoder type 02-07

The incremental shaft encoder type 02-07 is purpose built for the fuel dispenser industry, for use in automatic and semi-automatic petrol and diesel dispenser systems. The compact and rugged construction is also an advantage in other applications such as tachometers, machine control and monitoring of rotating machinery in the paper and printing industry.

Approvals

The shaft encoder has been tested and granted ATEX approval. The ATEX approval is rated for EEx m IIB T6 according to CENELEC EN 50014: 1997 E incl. A1+A2 and EN 50028: 1987.

The Weights & Measures Authorities in most European countries have approved the use of these 02-07 shaft encoders in volumetric systems.

Options

Large selection of shaft couplings, including couplings with built-in backlash clutch facility. The standard encoder is bi-directional, but can be supplied with a CW or CCW freewheel clutch. The fuel resistant cable can be customized regarding length, wire colour coding and cable-end termination.

Accessories

Brackets to suit most of the meters found on the fuel dispenser market and specially customized versions for other applications.

A program of special mechanical totalizers is available.

Please contact us for further information.

Electrical specifications

Power supply	5 – 24 VDC, fixed or variable
Current consumption	Min. 7.5 mA per channel
Number of channels	1 or 2
Number of pulses	1 to 200 ppr
Output signal	Squarewave duty cycle 50% +/- 10%
Phase shift	90° (25% +/- 5%)
Output stage	NPN OC, PNP OC or Totem pole
Output current	Max. 30 mA
Hysteresis	Minimum 0.2°
Output frequency	Min. 1000 Hz
Temperature range	Ex. Approved -20°C to +70°C Working -40°C to +70°C
Direction of rotation	CW or CCW

Mechanical specifications

Housing	Die cast zinc - grey enamelled
Bearings	Self-lubricating sintered bronze
Free-wheel clutch	None or optionally CW or CCW
Coupling	Several types available
Gear to totalizer	To be agreed
RPM	Max 3000 RPM
Sealing	None
Labels	Type label and wire connection label
Mounting	With 2 pieces. M4 screws
Weight	Approx. 10 gram excl. the cable

Wiring (standard colour code)

	1 channel	2 channel
Green	V+	V+
Brown	0V	0V
White	Ch1	Ch1
Yellow	-	Ch2
Grey	-	0V

The shield is connected to the housing.

0V (Ground) can be connected to the housing.

Dimensions

