

# ELTOMATIC

Complete solutions between meter and computer



[www.inergy.ir](http://www.inergy.ir)

## Shaft encoder 01-09



## Shaft encoder 01-09

The encoder type 01-09 is a very compact and rugged unit which is suitable for easy mounting in all types of equipment.

It is built for the fuel dispenser industry for use in automatic and semi-automatic petrol, LPG and diesel dispenser systems.

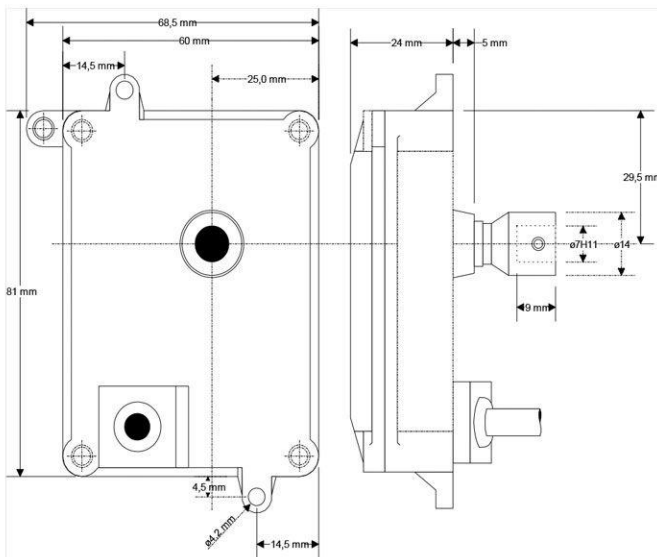
The encoder is approved for use in environments where potentially explosive atmospheres can be expected.

## Approval

The type 01-09 encoder has been tested and granted ATEX and EMC approval. The Ex-approval is "II 2 G Ex d B T6" according to CENELEC EN60079-0 and EN60079-1.

The encoder is W&M approved in most countries.

## Dimensions



## Options

Eltomatic holds a wide selection of shaft couplings, including couplings with built-in backlash clutch facility.

Several options for standard and specially manufactured sealing screws are available.

The fuel resistant cable can be customized regarding length, wire colour coding and cable end termination.

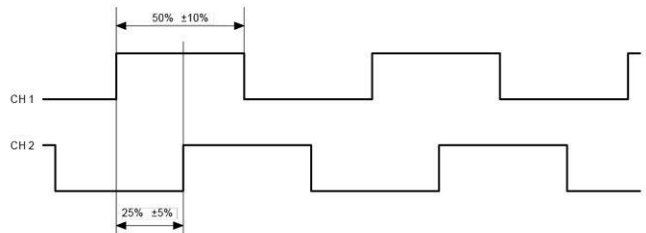
## Accessories

Eltomatic has an extensive range of auxiliary equipment for shaft encoders and we are always prepared to find solutions together with our customers.

We have several brackets to suit our encoders to most meters found on the fuel dispenser market are available. We also do customized versions for other applications.

## Electrical specifications

Power supply	5–25 VDC, fixed or variable.
Current consumption	Standard 10 to 30mA, max 60mA
Number of channels	1 or 2
Number pulses	1 to 125ppr – special design can do 227ppr.
Output signal	Square wave duty cycle 50% ±10% Predefined pulse width
Phase shift	2 channels 90° (25% ±5%)
Output stage	NPN, PNP or Totem pole
Output current	Max. 30mA
Hysteresis	Minimum 0.2°
Output frequency	Min. 1000Hz
Temperature range	Ex. approved -30°C to +60°C Working -40°C to +70°C
Direction of rotation	CW or CCW



## Mechanical specifications

Housing	Die cast, seawater resistant aluminum alloy
Bearing	Self-lubricating sintered bronze
Free wheel clutch	None
Coupling	Several types available
Gear to totalizer	To be agreed
RPM	Max 3000 RPM
Sealing	One screw sealed with lead
Labels	Type label Wire connection label Customer's label (optional)
Mounting	With 4 pcs. M4 screws
Weight	Approx. 200g excl. the cable

## Wiring (standard colour code)

	Channel 1	Channel 2
Green	VCC	VCC
Brown	GND	GND
White	Channel 1	Channel 1
Yellow	-	Channel 2

Shield is normally connected to the housing

## Contact

Send us your request on [eltomatic@eltomatic.com](mailto:eltomatic@eltomatic.com) or call us at +45 9824 6166