

# ELTOMATIC

Complete solutions between meter and computer

## Shaft Encoder type 01-09



**ELTOMATIC**

DK 9490 PANDRUP DENMARK  
SHAFT ENCODER TYPE 01-09

16319 2 2 G

DEMIO 01 ATEX 110841X

EEEx d IIB T6

POWER SUPPLY:

5-24 VDC

PULSE FREQ:

2 z 50

SERIAL NO.:

2030039

DATE:

040205



Max. 32 VDC  
I max. 60 mA

## Shaft encoder type 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 purpose built for the fuel dispenser industry for use in automatic and semi-automatic petrol and diesel dispenser systems.

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

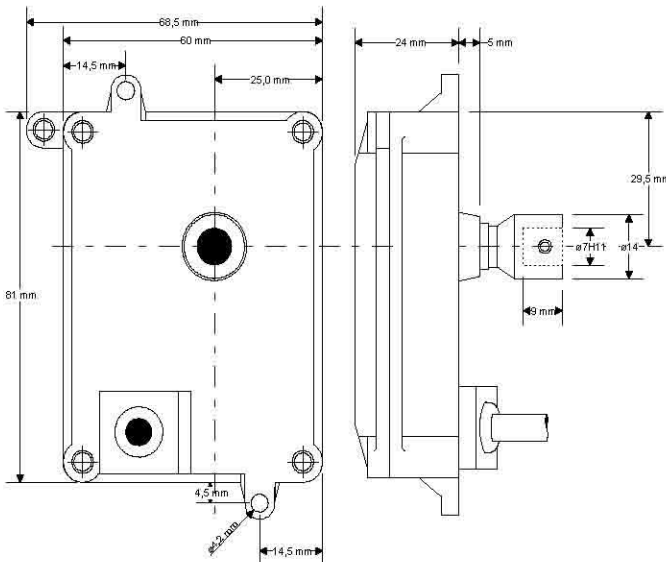
### Approval

The type 01-09 encoder has been tested and granted Ex approval.

The Ex-approval is EEX d IIB T6 according to CENELEC EN 50014 and EN 50018.

The encoder is W&M approved in most countries.

### Dimensions



### Options

Large selection of shaft couplings, including couplings with built-in backlash clutch facility.

A selection of standard and specially manufactured sealing screws.

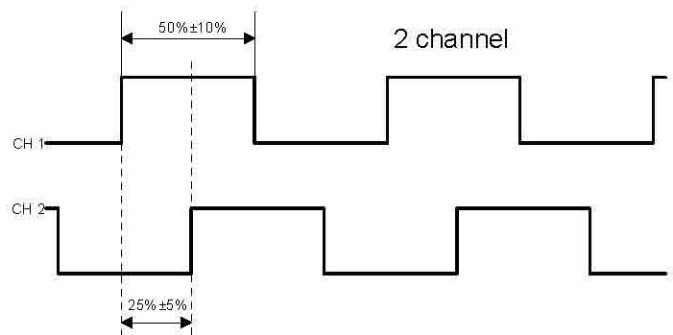
The fuel resistant cable can be customized regarding length, wire colour coding and cable end termination.

### Accessories

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

## Electrical specifications

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



## Mechanical specifications

Housing	Die cast, seawater resistant aluminium alloy
Bearings	Selflubricating sintered bronze
Free wheel clutch	None
Coupling	Several types available
Gear to totalizer	To be agreed
RPM	Max 3000 RPM
Sealing	Sealing screw optional
Labels	Type label Wire connection label
Mounting	With M4 screws
Weight	Approx. 200 gram excl. cable

## Wiring (standard colour code)

	1 channel	2 channel
Green	0V	0V
White	Ch1	Ch1
Yellow	-	Ch2

Shield is normally connected to the housing