

# Incremental Encoder



## Comercial Information

Manufactured by [IVO](#)

Ref.Manufacturer GI 338

Distributed by [IVO](#)

Ref. Distributer GI338.0224115

## General Features

- Incremental encoder with integrated OPTO-ASIC, thus high
- interference immunity
- Speed up to 12,000 RPM
- Resolution up to 2048 pulses

### Ambient conditions

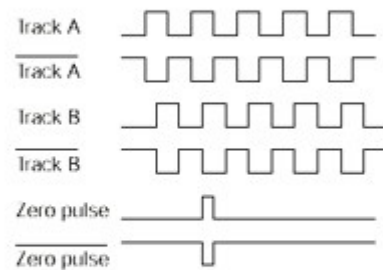
Ambient temperature	-20 ... +85 °C
Protection to	
Shaft	IP 64 ball bearing with seals
Housing	IP 43 through shaft IP 65 with sealing cover
Relative humidity	Max. 95 %, non-condensing
Endurance	
Vibration	IEC 68, Section 2 - 6 $\leq 100 \text{ m/s}^2 / 10\text{-}200 \text{ Hz}$
Shock	IEC 68, Section 2 - 27 $\leq 500 \text{ m/s}^2 / 11 \text{ ms}$
Interference immunity	EN 50082-2 EN 61000-4 -2 to 4 Severity grade 3
Emitted interference	EN 50081-2

## Technical Specifications

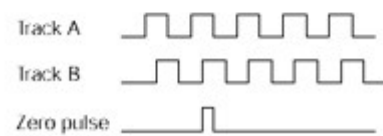
### Output signals

Signals with clockwise sense of rotation when looking at the flange

Signal outputs 5 VDC line driver



Signal outputs 10 ... 30 VDC



## Electrical Specifications

### Electrical data

Supply voltage	5 VDC $\pm$ 10 % and 10 ... 30 VDC
Current consumption	60 mA (without load)
Scanning frequency	50 kHz (< 500 pulses) 100 kHz (> 500 pulses)
Output stages	
5 VDC	Line driver to RS422
10 ... 30 VDC	Push-pull output, short-circuit-protected
Electric connector	The electric connector must not be plugged on or removed whilst under voltage

#### „Line driver 5 VDC“

Cable color	Assignment
brown	UB
green	Track A
red	Track A inv.
yellow	Track B
blue	Track B inv.
pink	Track N (zero pulse)
gray	Track N inv. (zero pulse inv.)
white	GND
Cable shield	Shield connected to flange

#### „Push-pull output 10 ... 30 VDC“

Cable color	Assignment
brown	UB
green	Track A
yellow	Track B
pink	Track N (zero pulse)
white	GND
Cable shield	Shield connected to flange

## Mechanical Specifications

