

### Ex-proof ENI 70EX with ATEX

- Our ATEX encoders now also carry approval for Dust
- 'Flameproof-enclosure' type of construction with approval for Zone 1 and 21
- ExII2GEEExdIICT6 and ExII2DIP6xT85°C
- Through hollow shaft or shaft  $\varnothing$  12 mm

### One type for every situation:

- Zone 1, 2 and 21, 22:  
ExII2GEEExdIICT6 and  
ExII2DIP6xT85°C

### Compact:

- Installation depth of only 94 mm
- Through hollow shaft  
for minimal installation depth



### Safe:

- Short-circuit proof outputs
- Reverse connection protection on inputs
- Over-voltage protection



### Mechanical characteristics:

Speed:	max. 6000 min <sup>-1</sup>
Rotor moment of inertia:	approx. 15 x 10 <sup>-6</sup> kgm <sup>2</sup>
Starting torque:	< 0.05 Nm
Radial load capacity of shaft:	20 N (shaft version)
Axial load capacity of shaft:	10 N (shaft version)
Weight:	approx. 1.2 kg
Protection acc. to EN 60 529:	IP 65
Working temperature:	-20° C ... +60 °C <sup>1)</sup>
Shaft:	stainless steel
Shock resistance acc. to DIN-IEC 68-2-27	1000 m/s <sup>2</sup> . 6 ms
Vibration resistance acc. to DIN-IEC 68-2-6:	100 m/s <sup>2</sup> , 10 ... 2000 Hz
Explosion proof zone 2 and 22:	ExII2GEEExdIICT6 and ExII2DIP6xT85°C

<sup>1)</sup> Non-condensing

### Pulse rates available at short notice:

10, 20, 25, 30, 50, 60, 100, 120, 125, 127, 150,  
180, 200, 216, 240, 250, 254, 256, 300, 314, 360,  
375, 400, 500, 512, 600, 625, 720, 745, 750, 762,  
800, 900, 927, 1000, 1024, 1250, 1270, 1400,  
1500, 1800, 2000, 2048, 2250, 2400, 2500, 3000,  
3600, 4000, 4096, 5000

Other pulse rates on request

### Electrical characteristics:

Output circuit:	RS 422 (TTL-compatible)	Push-pull
Supply voltage:	5 V (±5 %) or 10 ... 30 V DC	10 ... 30 V DC
Power consumption (no load) without inverted signal:	-	typ. 55 mA / max. 125 mA
Power consumption (no load) with inverted signals:	typ. 70 mA / max. 90 mA	typ. 80 mA/ max. 150 mA
Permissible load/channel:	max. ±20 mA	max. ±30 mA
Pulse frequency:	max. 300 kHz	max. 300 kHz
Signal level high:	min. 2.5 V	min. U <sub>B</sub> -2.5 V
Signal level low:	max. 0.5 V	max. 2.0 V
Rise time t <sub>r</sub>	max. 200 ns	max. 1 μs
Fall time t <sub>f</sub>	max. 200 ns	max. 1 μs
Short circuit proof outputs: <sup>1)</sup>	yes <sup>2)</sup>	yes
Reverse connection protection at UB:	no	yes
Conforms to CE requirements acc. to EN 61000-6-1, EN 61000-6-4 and EN 61000-6-3		

<sup>1)</sup> If supply voltage correctly applied

<sup>2)</sup> Only one channel allowed to be shorted-out:

(If UB=5 V, short-circuit to channel, 0 V, or +UB is permitted)

(If UB=5-30 V, short-circuit to channel or 0 V is permitted)

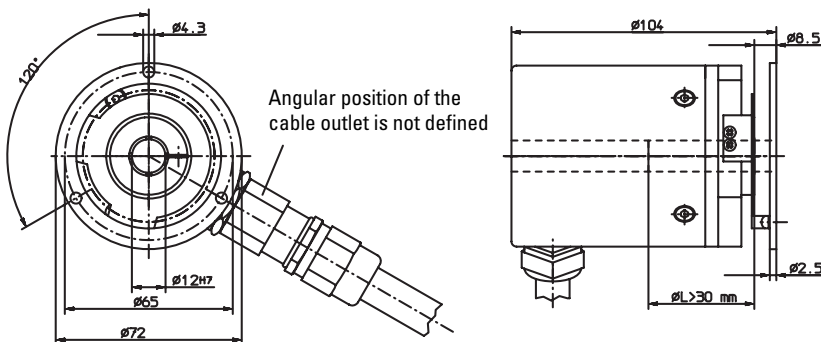
### Please note!

- All standards for installation of electrical systems in hazardous environment have to be observed.
- Manipulations (opening, mechanical treatment etc.) cause the loss of the EX-license, warranty claims will not be accepted and the installer will be responsible for any consequential damages.



**Ex-proof ENI 70EX with ATEX**

ENI 70EX.27xx



Order code:

ENI 70EX.XXXX.XXXX

Range

- 14 = Synchronous bracket with hollow shaft ø 12 mm
- 27 = hollow Shaft ø 12 mm with stator coupling**

Pulse rate

(e.g. 250 pulses=> 0250)

Type of connection

- 2 = Cable radial (2 m PVC-cable)**
- other cable lengths on request**

Output circuit and voltage supply

- 1 = RS 422 (with inverted signal)**  
**5 V supply voltage**
- 2 = Push-pull (without inverted signal)  
10 ... 30 V supply voltage
- 3 = Push-pull (with inverted signal)**  
**10 ... 30 V supply voltage**
- 4 = RS 422 (with inverted signal)  
10 ... 30 V supply voltage

*Preferred types are indicated in **bold***