

# Incremental Shaft Encoders Type RX 70/71

## Explosion-proof encoders



RX 70



RX 71

Stainless steel

- Encoder for explosion group II
- Highest working reliability
- Application e.g.:
  - enamelling production lines
  - surfacing machines
  - bottling machines
  - mixers
  - silo works
- For absolute explosion-proof encoders, see "Absolute Encoders Type AX 70 / 71"

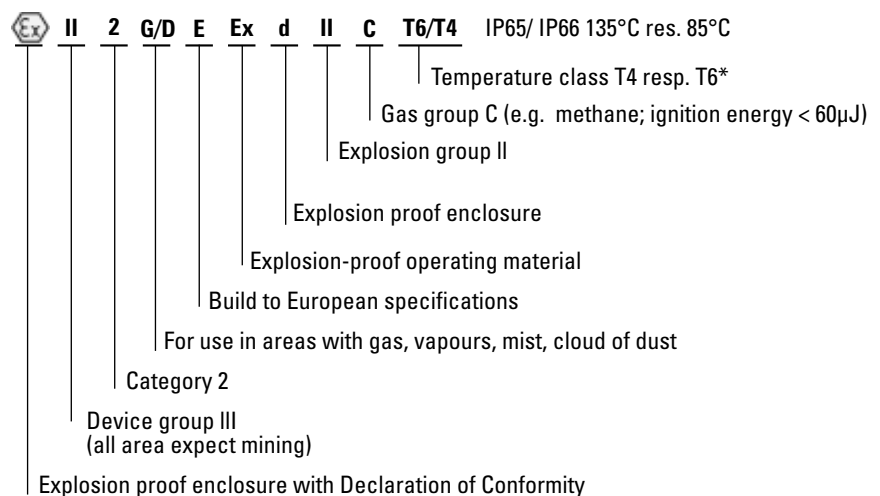
### NUMBER OF PULSES

1 / 2 / 3 / 4 / 5 / 10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 60 / 64 / 70 / 72 / 80 / 100 / 125 / 128 / 144 / 150 / 180 / 200 / 230 / 250 / 256 / 300 / 314 / 350 / 360 / 375 / 400 / 460 / 480 / 500 / 512 / 600 / 625 / 635 / 720 / 750 / 900 / 1000 / 1024 / 1200 / 1250 / 1500 / 1600 / 1800 / 2000 / 2048 / 2500 / 3000 / 3480 / 3600 / 3750 / 3968 / 4000 / 4096 / 4800 / 5000 / 5400 / 6000 / 7200 / 7680 / 8000 / 8192 / 9000 / 10000

Other number of pulses on request

### EX-CLASSIFICATION

The incremental shaft encoder is available in explosion proof design with explosion proof enclosure "d" under RX 70 and RX 71 (stainless steel). The PTB has assured with the Declaration of Conformity that the RX 70 / 71 meets the requirements of safety and health according to EN 50014 and EN 50018. Therefore it is approved in explosive areas, code „Ex II 2 G/D E Ex d II C T4/T6 IP65/ IP66 135°C resp. 85°C“. For applications under tough environmental conditions and food industry the stainless steel version RX 71 is available.



T6 = Highest permissible surface temperature +85°C (max. speed = 6000 U/min<sup>-1</sup>)  
 T4 = Highest permissible surface temperature +130°C (max. speed = 10000 U/min<sup>-1</sup>)



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### PIN ASSIGNMENT

Cable No.	Output			
	RS 422+ Sense (T)	RS 422+ Alarm (R)	push-pull (K)	push-pull complementary (I)
12	DC 5 V	DC 5/10 - 30 V	DC 10 - 30 V	DC 10 - 30 V
11	GND	GND	GND	GND
10	Sense V <sub>CC</sub>			
9	Sense GND			
1	Channel A	Channel A	Channel A	Channel A
2	Channel $\bar{A}$	Channel $\bar{A}$		Channel $\bar{A}$
3	Channel B	Channel B	Channel B	Channel B
4	Channel $\bar{B}$	Channel $\bar{B}$		Channel $\bar{B}$
5	Channel N	Channel N	Channel N	Channel N
6	Channel $\bar{N}$	Channel $\bar{N}$		Channel $\bar{N}$
7		Alarm	Alarm	Alarm
screen		Cable screen connected to housing		
Screw terminal		for additional connection of an earth conductor		

### ORDERING INFORMATION

Type	Model	Number of pulses	Supply voltage	Flange, Protection, Shaft	Output	Connection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>RX70-T</b>	<b>I</b> Incremental	<b>1 ... 10 000</b>	<b>A</b> 5 V <sup>1</sup> <b>E</b> 10-30 V <sup>2</sup>	<b>K.42</b> Clamping, IP64, 10 mm	<b>K</b> push-pull short circuit proof <b>T</b> RS 422 + Sense <b>I</b> push-pull complementary <b>R</b> RS 422 + Alarm	<b>A</b> PVC cable axial (5m)
<sup>1</sup> with output T, R <sup>2</sup> with output K, I, R						

Type	Model	Number of pulses	Supply voltage	Flange, Protection, Shaft	Output	Connection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>RX71-T</b> Stainless steel	<b>I</b> Incremental	<b>1 ... 10 000</b> increments	<b>A</b> 5 V <sup>1</sup> <b>E</b> 10-30 V <sup>2</sup>	<b>K.42</b> Clamping, IP64, 10 mm	<b>K</b> push-pull short circuit proof <b>T</b> RS 422 + Sense <b>I</b> push-pull complementary <b>R</b> RS 422 + Alarm	<b>A</b> PVC cable axial (5m)
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