

## Series E incremental shaft encoder up to 12 mm



E	B	X	X	-	1	3	X	X	-	X	X	X	X
					<u>Shaft Size</u>			<u>Resolution - ppr</u>					
					K2 = 6 x 10 mm			Exit					
					K4 = 10 x 20 mm			A = Axial					
					K5 = 12 x 20 mm			R = Radial					
					<u>Connection</u>								
<u>IP Rating</u>					1 = 2m cable								
EA = IP54					2 = 5m cable								
EB = IP65 (standard)					G = 9418 8 pin plug & socket								
					H = 9512 12 pin plug & socket								

5...24 Volt Extended Line Driver is standard, optional Current Sink Open Collector is available



Zone 0, Class 1 Div 1

### Technical Data

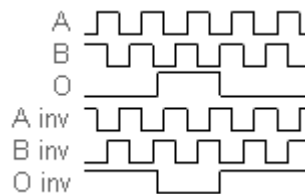
Operating temp:	- 20 ...+ 60 degrees C - 4 ...+ 140 degrees F
On request:	- 40 degrees
Max frequency:	150 kHz
Current consumption:	50 mA (max.)
Power supply:	5 - 24V
Weight:	21 oz (0.6 kg)
Protection:	IP 65 (IP54 available)
Housing:	Aluminum
Shaft:	Stainless Steel
Bearings:	2 x 6001 - (Z) (RS)
Torque:	0.7 oz/in (5 N-cm)
Humidity:	Up to 98% permissible
Speed:	6000 RPM max.
Shock:	10g (6msec)
Vibration:	5g (500 Hz)
Shaft load:	Radial / Axial 10 N
Line driver output max:	50 mA per channel
Max. ppr	5000
Inertia:	100 gm-cm <sup>2</sup>

### Connection Options

	Cable	12 pin
PS GND	Black	1
PS 5 ... 24 V	Red	2
Output A	White	3
Output B	Blue	4
Output O	Yellow	5
Output A inv	Green	6
Output B inv	Violet	7
Output O inv	Brown	8

### Output

Diagram is shown with clockwise shaft rotation viewed from shaft end



## Certifications

To use the encoder in a hazardous area, a safety barrier or galvanic isolator has to be used. Our six channel barrier and isolator work with our encoders.

IP 54 or 65

ATEX

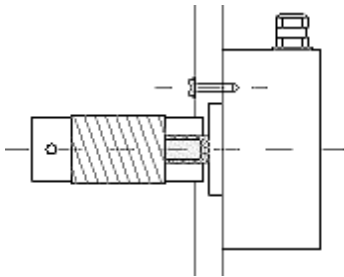
IECEX

CSA

GOST-CU

## Mounting Instructions

Hook up the encoder with the connections as described. Make sure power supply meets specifications. Attach encoder to mounting bracket as shown. Attach shaft using a flexible coupling.



## Dimensions

