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Series 14 incremental encoder up to 40mm



click for non intrinsically safe version

1 4 X X - 1 3 X R -Resolution - ppr

Shaft Size Connection

20 = 20 mm 1 = 2m cable 25 = 25 mm2 = 5 m cable

30 = 30 mmD = 9 pole D plug & socket 40 = 40 mm 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		Connection Options				
Operating temp:	- 20+ 60 degrees C	•	9 pole	Cable	12 pin	
	 4+ 140 degrees F 	PS GND	1	Black	1	
On request:	-20 + 80 degrees C	PS 5 24 V	2	Red	2	
Max frequency:	150 kHz	Output A	3	White	3	
Current consumption:	50 mA (max.)	Output B	4	Blue	4	
Power supply:	5 - 24V	Output O	5	Yellow	5	
Weight:	21 oz (0.6 kg)	Output A inv	6	Green	6	
Protection:	IP 64S, NEMA 3	Output B inv	7	Violet	7	
Housing:	Aluminum	Output O inv	8	Brown	8	
Shaft:	Aluminum					
Bearings:	2 x 6810 ZZ C2	Output				
Torque:	0.4 oz/in (3 N-cm)	Diagram is shown wit	h clockwise s	shaft rotation	viewed from	
Humidity:	Up to 98% permissible	opposite side to shaft	grub screws	i		
Speed:	3000 RPM max.	A D D D C	חו			
Shock:	10g (6msec)	Binnin				
Vibration:	5g (500 Hz)	0				
Shaft load:	Supports its own weight	A inv	\Box			
Line driver output max	50 mA per channel	B inv				
Max. ppr	3000	O inv				
mus. ppi	3000					

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. Isolator Data Sheet

ATEX [Certificate] IECEx [Certificate] CSA [Certificate] GOST-CU [Certificate]

Mounting Instructions

Mount fixture to the machine with three screws and three washers, M6 or 1/4". Slide the encoder onto the shaft. With the setscrews, tighten the hollow shaft encoder onto the shaft with a minimum clearance of 1/16" between fixture and encoder. This assembly allows the shaft to float and increases the lifetime of the bearings. Connect the encoder as per wiring specifications. Make sure power supply is within the proper voltage and current rating. Encoder can be mounted with the setscrew on the machine side or on the opposite side for either CW or CCW. See datasheet for CW and CCW directions of the outputs.

Technical data for mount: 1/8" stainless steel wire