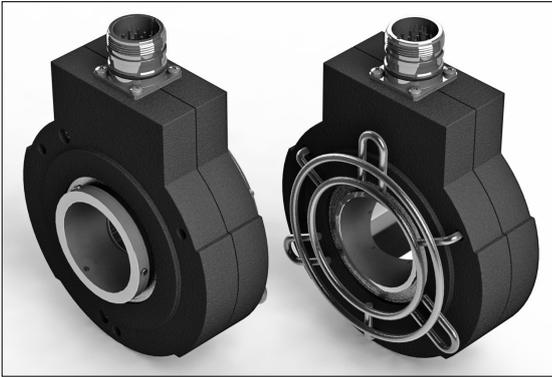


Series 14 incremental encoder up to 40mm



1 4 X X - 1 3 X R - X X X X

| Shaft Size | Connection | Resolution - ppr |
|------------|-------------------------------|------------------|
| 20 = 20 mm | 1 = 2m cable | |
| 25 = 25 mm | 2 = 5 m cable | |
| 30 = 30 mm | D = 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

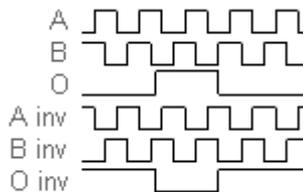
| | |
|-------------------------|--|
| Operating temp: | - 20 ...+ 60 degrees C - 4 ...+ 140 degrees F |
| On request: | -20 ... + 80 degrees C |
| Max frequency: | 150 kHz |
| Current consumption: | 50 mA (max.) |
| Power supply: | 5 - 24V |
| Weight: | 21 oz (0.6 kg) |
| Protection: | IP 64S, NEMA 3 |
| Housing: | Aluminum |
| Shaft: | Aluminum |
| Bearings: | 2 x 6810 ZZ C2 |
| Torque: | 0.4 oz/in (3 N-cm) |
| Humidity: | Up to 98% permissible |
| Speed: | 3000 RPM max. |
| Shock: | 10g (6msec) |
| Vibration: | 5g (500 Hz) |
| Shaft load: | Supports its own weight |
| Line driver output max: | 50 mA per channel |
| Max. ppr | 3000 |

Connection Options

| | 9 pole | Cable | 12 pin |
|---------------|--------|--------|--------|
| PS GND | 1 | Black | 1 |
| PS 5 ... 24 V | 2 | Red | 2 |
| Output A | 3 | White | 3 |
| Output B | 4 | Blue | 4 |
| Output O | 5 | Yellow | 5 |
| Output A inv | 6 | Green | 6 |
| Output B inv | 7 | Violet | 7 |
| Output O inv | 8 | Brown | 8 |

Output

Diagram is shown with clockwise shaft rotation viewed from opposite side to shaft grub screws



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](#)

IP 64 S

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

Dimensions

