

Series 14 incremental hollow shaft encoder up to 40 mm

(non intrinsically safe part number)



1 **4** **X** **X** **X** **X** **X** **X** **/** **X** **X** **X** **X**
Shaft Size Output Signal Output Circuit Connection RESOLUTION
Up to 3000 ppr max

XX Shaft Size

12 = 12 mm

14 = 14 mm

25 = 25 mm

40 = 40 mm.....you get the picture.....

AA = 1"

OA = 5/8"

OB = 3/4"

OC = 7/8"

OD = 1 - 1/8"

XX Output Signal

31 = channel A

32 = channel A and B

33 = channel A, B and O

34 = channel A and A comp

35 = channel A & B and A & B comp

36 = all six channels

Output Circuit

2 = 5V TTL
7 = Current Sink / Open Collector 5-24 V
9 = Extended Line Driver 5-24 V

Connection

4 = 9512, 12 pin plug & socket
D = 9 pole D
R = 2 m cable
F = 3 m cable
H = 4 m cable
J = 5 m cable
L = 8 m cable

Technical Data

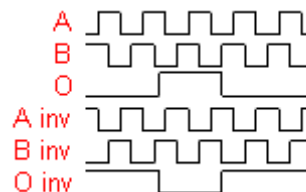
Operating temp: - 20 ...+ 60 degrees C
- 4 ...+ 140 degrees F
On request: -20 ... + 80 degrees C
Max frequency: 150 kHz
Current consumption: 90 mA (max.)
Power supply: 5 - 24V
Weight: 21 oz (0.6 kg)
Protection: IP 64S, NEMA 3
Housing: Aluminum
Shaft: Aluminum
Bearings: 2 x 6810 ZZ C2
Torque: 0.4 oz/in (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



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

