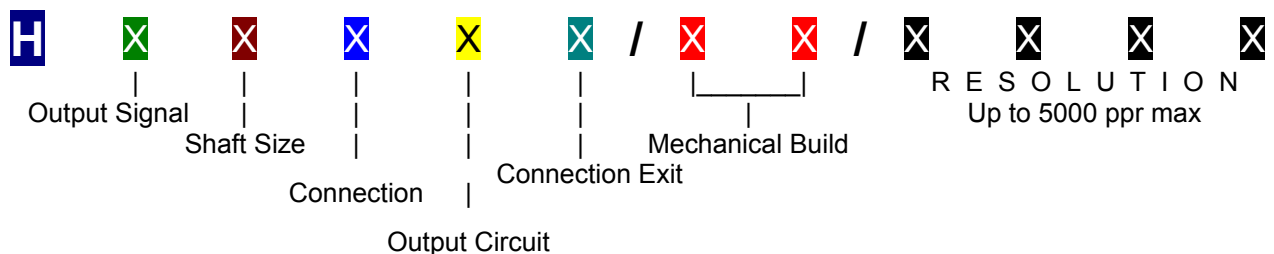


Series H incremental shaft encoder up to 12 mm

(non intrinsically safe part number)



X Output Signal

- 1 = channel A
- 2 = channel A and O
- 3 = channel A and B
- 4 = channel A, B and O
- 5 = channel A and A comp
- 6 = channel A & O and A & O comp
- 7 = channel A & B and A & B comp
- 8 = all six channels

X Shaft Size

- A = 6 x 10 mm
- B = 8 x 20 mm
- C = 10 x 20 mm
- D = 12 x 20 mm
- E = 1/4" x 20 mm
- F = 3/8" x 20 mm
- M = 6 x 20 mm

X Connection

0 = 5 m cable
1 = 2 m cable
2 = 9412 (4 pin) plug
3 = 9414 (5 pin) plug
4 = 9512 (12 pin) plug
5 = 9415 (small 12 pin) plug
8 = 9418 (8 pin) plug
A = 6 pin MS
B = 7 pin MS
K = 3 m cable
L = 4 m cable
M = 8 m cable
N = 10 m cable

X Connection Exit

A = Axial Exit
R = Radial Exit

X Output Circuit

0 = Current Sink 7-30 Volts
1 = Push Pull 11-30 Volts
2 = TTL Line Driver
3 = Non Existant
4 = CMOS Line Driver 7-15 Volts
5 = Current Source 7-30 Volts
6 = Non Existant
7 = Current Sink / Open Collector
8 = Current Source / Open Collector
9 = Extended Line Driver 5-24 Volts
X = 5 Volt Regulator Fitted
Y = 12 Volt Regulator Fitted
W = 15 Volt Regulator Fitted

XX Mechanical Build

AO = IP54
BA = IP65

Technical Data

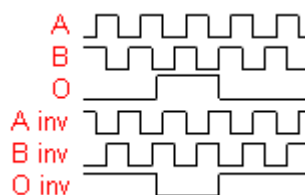
Operating temp: - 20 ...+ 60 degrees C
- 4 ...+ 140 degrees F
On request: - 40 degrees
Max frequency: 150 kHz
Current consumption: 90 mA (max.)
Power supply: 5 - 24V
Weight: 21 oz (0.6 kg)
Protection: IP 65
Housing: Aluminum
Shaft: Stainless Steel
Bearings: 2 x 6001 - (Z) (RS)
Torque: 0.7 oz/in (5 N-cm)
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-cm²

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



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.

hohner

Elektrotechnik Werne

Dimensions

