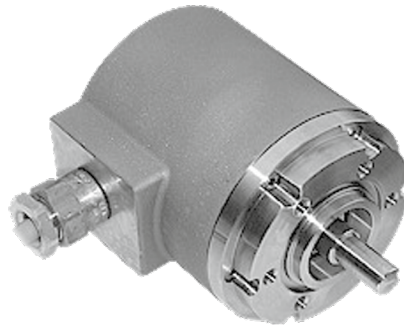# hohner
Elektrotechnik Werne

Series DXL stainless steel shaft encoder up to 12 mm (new style part number)
For cold operating temperatures down to -40

⟨Ex⟩ *IECEx*

```
D  L   X  X  -  X  X  X  X  -  X  X  X  X
       |____|     |____|     |     |     R E S O L U T I O N
       Shaft Size    |    Connection  |     Up to 5000 ppr max
                     |                |
                Output Circuit   Connection Exit
```

XX Shaft Size
  K1 = 12 x 25 mm

XX Output Circuit
  13 = Extended Line Driver
  16 = Current Sink Open Col.
  All are 7...24 Volts with all six channels

X Connection
  3 = 10 m cable
  5 = 20 m cable

X Connection Exit
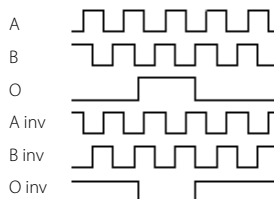 A = Axial Exit
  R = Radial Exit

Technical Data

Operating temp:	- 40 ...+ 60 degrees C
	- 40 ...+ 140 degrees F
Max frequency:	100 kHz
Current consumption:	90 mA (max.)
Power supply:	7 - 24V
Weight:	125 oz (3.5 kg)
Protection:	IP 66 / 67
Housing:	Stainless Steel
Shaft:	Stainless Steel
Bearings:	2 x 6001 - (Z) (RS)
Torque:	0.8 oz/in (6 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:	275 gm-cm^2

Connection Options

	Cable
PS GND	Black
PS 5 ... 24 V	Red
Output A	White
Output B	Blue
Output O	Yellow
Output A inv	Green
Output B inv	Violet
Output O inv	Brown

Output

Diagram is shown with clockwise shaft rotation viewed from shaft end

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Certifications

Does not require a barrier for use in hazardous areas, it is **Flameproof**, making the barrier redundant.

IP 66/X7
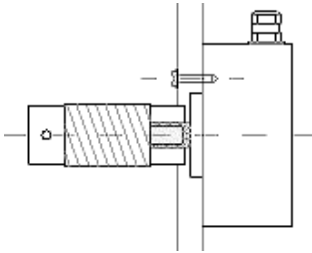
Ex d IIC

ATEX [Certificate]

IECEx [Certificate]

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

6 x M6 holes on
ø 60 mm circle
12 mm deep

0.3' (8 mm)

1.57' (40 mm)

3.15' (80 mm)

3.54' (90 mm)

12 mm shaft with
ø 4 x 2 keyway

1' (25 mm)

0.2' (5 mm)

0.4' (10 mm)

2.16' (55 mm)

Radial exit

3.7' (93 mm)