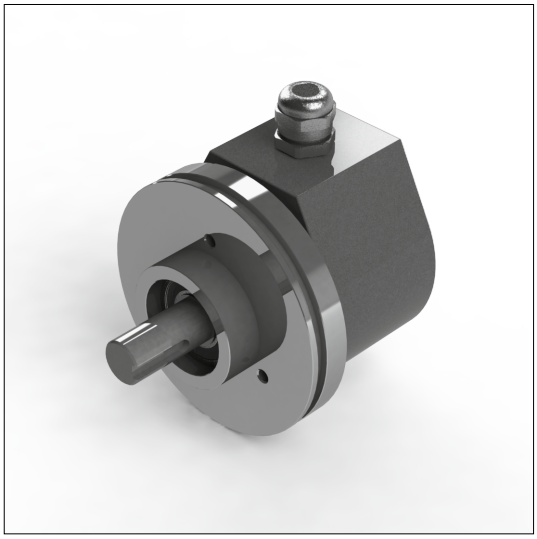
hohner
Elektrotechnik Werne

Series W

Series W incremental shaft encoder up to 12 mm



W X X X - 1 3 X X - X X X X

Shaft Size
K2 = 6 x 10 mm
K4 = 10 x 20 mm
K5 = 12 x 20 mm

Exit
A = Axial
R = Radial

Resolution - ppr

IP Rating
WA = IP54
WB = IP65

Connection
1 = 2m cable
2 = 5m cable
G = 9418 8 pin plug & socket
H = 9512 12 plug & socket

5...24 Volt Extended Line Driver is standard, optional Current Sink Open Collector is available

IECEx

Zone 0, Class 1 Div 1

Technical Data

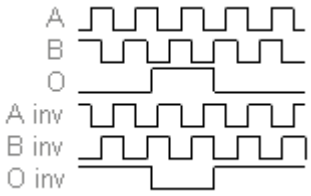
Operating temp:	- 20 ...+ 60 degrees C - 4 ...+ 140 degrees F
On request:	- 20 ... + 80 degrees C
Max frequency:	150 kHz
Current consumption:	80 mA (max.)
Power supply:	5 - 24V
Weight:	24 oz (0.8 kg)
Protection:	IP65 or 54
Housing:	Aluminum
Shaft:	Stainless Steel
Bearings:	2 x 6001 - (Z) (RS)
Torque:	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-cm^2

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



Incremental Ex Encoder

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 54, 65

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