# hohner
## Elektrotechnik Werne

## Series N20S incremental stainless steel 2.0" blind hollow shaft encoder



N 2 0 S X     X X L   8 X X **/** X X X X

| | Shaft Size | | | Resolution - ppr |
| | 10 = 10mm | | | |
| | A5 = 1/2" | | Exit |
| | | Connection | R = Radial |
| Flange Type | | 6 = MS6 | A = Axial |
| D = Square | | 7 = MS7 | |
| E = Round | | 0 = MS10 | |
| | | 2 = 2m cable | |

5...24 Volt Extended Line Driver is standard

Ex    CSA C/US    *IECEx*    EAC

**Zone 0, Class 1 Div 1**

*(square flange shown)*

## Technical Data

| | |
| --- | --- |
| Operating temp: | - 20 ...+ 60 degrees C |
| | - 4 ...+ 140 degrees F |
| Max frequency: | 100 kHz |
| Weight: | 53 oz (1.0 kg) |
| Protection: | IP 66 |
| Housing: | Stainless Steel |
| Shaft: | Stainless Steel |
| Bearings: | 2 x 6803 |
| Torque: | 0.8 oz/in (6 N-cm) |
| Shaft load: | 5N (500g) |
| Humidity: | Up to 98% permissible |
| Speed: | 4000 rpm |
| Max. ppr | 1024 |

## Connection Options

| | Cable 2 meters | Connector |
| --- | --- | --- |
| PS GND | Black | 1 |
| PS 5...24V | Red | 2 |
| Output A | White | 3 |
| Output B | Blue | 4 |
| Output O | Yellow | 5 |
| Output A inv | Green | 6 (not MS6/7) |
| Output B inv | Violet | 7 (not MS6/7) |
| Output O inv | Brown | 8 (not MS6/7) |

## Output for Channels

**hohner**

Elektrotechnik  Werne
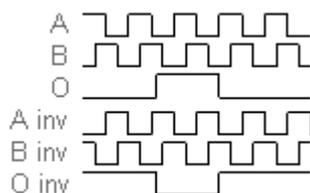
To use the encoder in a hazardous area, ***a safety barrier or galvanic isolator has to be used***.  Our six channel barrier and isolator work with our encoders.
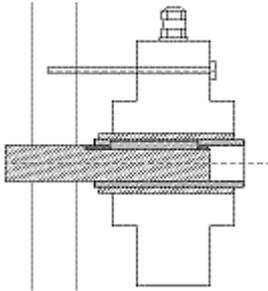
IP 66

ATEX

IECEx

CSA

GOST-CU

## Mounting Instructions

Clamp encoder to shaft and use torque arm to prevent rotation.  Hook up the encoder with the connection as described.  Make sure power supply meets specifications

**Dimensions**

## N20SD

4 × 4⌀
through holes
on a 2.475" PCD
62.862mm PCD

Standoff
for connector

0.78" (20mm)

0.25" (6.35mm)

0.12" (3mm)

0.3" (7.5mm)

Semi Hollow Bore
0.78" (20mm) deep

1.25" (31.75mm)
1.75" (44.5mm)
2" (50mm)

2.27" (57.75mm)

## N20SE

4 × 10-32 UNC2B
on a 1.625" PCD
41.275mm PCD
and
3× 4-40 UNC2B
on a 1.5 PCD
38.1mm PCD

Standoff
for connector

0.78" (20mm)

0.25" (6.35mm)

Semi Hollow Bore
0.78" (20mm) deep

0.1" (2.54mm)

0.1" (2.54mm)

2" (50mm)

2.27" (57.75mm)