

Series 3000 intrinsically safe absolute shaft encoder - WiFiEx



3 X K 1 - X X W X - A X X X | Resolution | Output | A007 = 7 bit | O6 = 4...20 mA* Exit | A010 = 10 bit

B = IP65

C = IP66 Aluminum D = IP66 S. Steel

*4...20mA span is based on a load of 250 ohms on the receiver



Technical Data

Encoder:

Operating Temp: -20C to +49C

Housing Material: Aluminum or St. Steel

Shaft Material: St. Steel

IP rating: IP54 up to IP66

Shaft load: Supports 'system' weight

Humidity: 98% permissible Shock: 10mg (6msec) Vibration: 5g (500Hz)

Shaft Speed: 3000 rpm or 2.5kHz (electrics)

Transmitter:

Operating Temp: -20C to +49C Housing Material: Plastic IP rating: IP66

Peak RF: 0 dBm, 1mW

Frequency: 2.4 GHz 124 channels

Data Rate: 250 kbs

Battery Pack:

Operating Temp: -20C to +49C Housing Material: Stainless Steel

IP rating: IP66

Humidity: 98% permissible

Type: Lithium Thyonide Chloride Life Time: Max 1.5 years, 19,000 mAhrs

300 million data transmissions

Receiver Module:

- Click above for a full description of the outputs that can be generated from the receiver module.

Function:

The 7 or 10 bit position from the encoder is transmitted to a distant module. As standard, the module is updated every two seconds in order for the system to have a lifetime of 5 years.

Identity:

Each encoder has a unique identity number in case multiple sensors are purchased. The ID numbers can be customer specified. As default, they be the serial number of the device, this way, there will never be conflicting identities on a system.

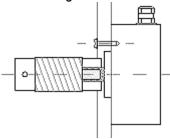


Certifications

IP54, 65 or 66/X7 IECEX ATEX

Mounting Instructions

- 1. Just before installing encoder onto shaft, screw the battery pack in firmly to the transmitter housing (the clear part)
- 2. Mount the encoder mechanically as you would any other encoder.
- 3. On the safe side, plug in the receiver module into the PLC or computer and start reading the data in whatever format you have.
- 4. The battery can be 'hot-swapped' in the field for a new battery if it does run out.
- 5. If you will NOT immediately use the encoder, do NOT connect the battery. Only connect the battery right before using.



Dimensions

All quotes in mm

