

## INSTALLATION GUIDE

Installation of the encoder must be completed by a skilled technician or engineer. Failure to comply with the instructions below will render the ATEX/IECEX certifications **INVALID**. **The encoder may not be modified by the customer.**

1. Insure that power is off.
2. Connect to earth prior to proceeding. Observe precautions for handling ESD (Electro Static Discharge) sensitive devices.
3. When mounting the Solid Shaft encoder, use either M3, M4, or M6 screws.
4. When installing the Blind Hollow Shaft encoder, check that the encoder fixing clamp is loose.
5. Slide encoder hollow bore over motor shaft (or other device).
6. Align encoder spring coupling or torque arm mounting hole(s) with motor face plate hole(s). Insert screws into mounting holes and tighten.
7. Tighten fixing clamp M3 screw (maximum 1.5 Nm (1.12 lbft) torque).
8. Use **only** EX d certified cable glands (or blind plugs, if no cable is attached) which meet EN/IEC 60079-1 requirements for attaching cable to the encoder. Cable entry threads are M20 x 1,5.
9. **Use only shielded cable.** Be aware of National Wiring Standards for ATEX environments. For ambient temperatures below -10o C and above +60o C use field wiring suitable for minimum and maximum ambient temperatures.
10. Connect encoder Circuit Ground (GND).
11. Connect remaining Output wires to PLC. Then apply power (**insure the Supply Voltage is correct!**).
12. If used, safety screws in the cap shall have a minimum yield stress of 450 MPa, class A2-70 or A4-70.
13. Precautions must be taken to avoid dust from forming layers on the encoder.
14. It is strongly recommended that the original packaging be used for any additional shipping or transport.



### Caution

- **DO NOT connect encoder when power is on.**

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- **DO NOT** connect output wires to supply voltage.
- **DO NOT** strike encoder with hammer or any other heavy object.
- If encoder is mounted to electrical machinery with high current or high voltage on the shaft, precautions must be taken for galvanic separation.
- **Maintenance is not necessary. Any required maintenance or repair is to be done only by the manufacturer.**

Contact Posital office or Posital Distributor with any questions (check [www.posital.com](http://www.posital.com) for information).

**This Installation Guide is valid for encoder type OCE and OCM**



For your safety please read this guide carefully.

Failure to follow the instructions in this guide will render the ATEX / IECEx certifications **INVALID**.

### Certification



0044



**I M2 Ex db Mb OCM Mining**

**II 2 G/D Ex db IIC T5 Gb**

**II 2 G/D Ex tb IIIC T100°C Db IP 64/65/66/67**

**Ambient temperatures - 40°C to 70°C**

**IEC 60079-0** Explosive atmospheres - Part 0: Equipment – General requirements

**IEC 60079-1** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

**IEC 60079-31** Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD", IP6X

**IEC 60529-1991 +A1** Degree of protection provided by enclosure (IP Code)