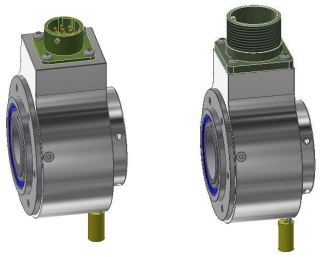
Type SC68EX
Installation Guide



SC68EX with connector

SC68EX with cable

Installation guide

This Installation Guide is valid only for encoder types SCH68BEX, SCH68FEX, SCA68EX (SC68EX) with connector or cable gland.

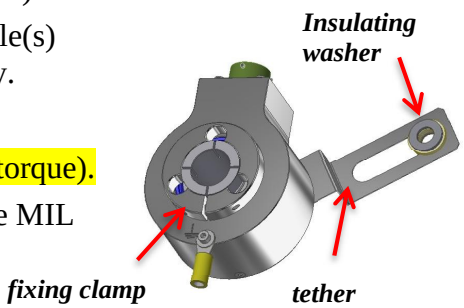
For your safety please read this guide carefully.

Failure to follow the instructions in this guide will render **ALL** certifications **INVALID**.

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

1. Insure that power is off.
2. Connect to earth prior to proceeding. Observe precautions for handling **ESD** (**E**lectro**S**tatic **D**ischarge) sensitive devices.
3. When installing the Hollow Shaft encoder, check that the encoder fixing clamp is loose. Then slide the encoder hollow bore over the motor shaft (or other device).
4. Align encoder spring coupling, tether or torque arm mounting hole(s) with motor face plate hole(s). Use insulating washers if necessary.

   Insert screws into mounting holes and tighten.
5. Tighten fixing clamp M3 screw (maximum 1.5 Nm (1.106 lb/ft) torque).
6. When installing the encoder, be sure the protective cap covers the MIL plug until the mating connector is attached.
7. The protective caps must be fitted immediately following separation of the plug and socket.
8. Connect encoder Circuit Ground (GND).
9. Connect remaining Output wires to PLC. Then apply power (**insure the Supply Voltage is correct!**).
10. Precautions must be taken to avoid dust from forming layers on the encoder.
11. 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.**
- **DO NOT separate when energized. (for versions with connector)**
- **DO NOT connect output wires to supply voltage.**
- **DO NOT strike encoder with hammer or any other heavy object.**
- **The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.**
- **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.**
- **To minimize the risk from electrostatic discharge - clean only with a damp cloth.**

Marking:

II 3 G Ex ec IIC T4 Gc
Ambient temperature range: – 40°C to +65°C[1]

[1]) Upper ambient can be changed to any value between +20°C and +65°C to meet customer requirements

Certification numbers:

ITS-I24ATEX39692X
IECEx ITS 24.0001X

See certifications at www.scancon.dk

The encoder complies with the following standards:

IEC 60079-0: 2017 Ed. 7 EN IEC 60079-0 :2018	Explosive atmospheres - Part 0: Equipment – General requirements
IEC 60079-7:2015 Ed. 5.1 EN IEC 60079-7:2015 /A1:2018	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

NOTE: Adding and/or removing data (on other CB request) and changing layout to this Installation Manual which does not conflict with the actual data in this document and ATEX/IECEx certification will not require to be notified by Certification Body even though the change will affect the revision number.