

Safety Instructions

Soliswitch FTE20

Point level switch

ATEX: Ex tb IIIC Txxx °C Db (Enclosure)
Ex ta IIIC Txxx °C Da (Process)



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Point level switch

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About this document

The document number of these Safety Instructions (XA) must match the information on the nameplate.

Associated documentation

All documentation is available on the Internet:
www.endress.com/Deviceviewer
 (enter the serial number from the nameplate).



If not yet available, a translation into EU languages can be ordered.

To commission the device, please observe the Operating Instructions pertaining to the device:
www.endress.com/<product code>, e.g. FTE20

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:
www.endress.com/Downloads

Certificates and declarations**IECEX certificate**

Certificate number: IECEX FMG 12.0030X

Affixing the certificate number certifies conformity with the following standards (depending on the device version).

- IEC 60079-0: 2017
- IEC 60079-31: 2013

ATEX certificate

Certificate number: FM 14ATEX0040 X

EU Declaration of Conformity

Declaration number: EC_00190

UKCA certificate

Certificate number: CML 21UKEX3992 X

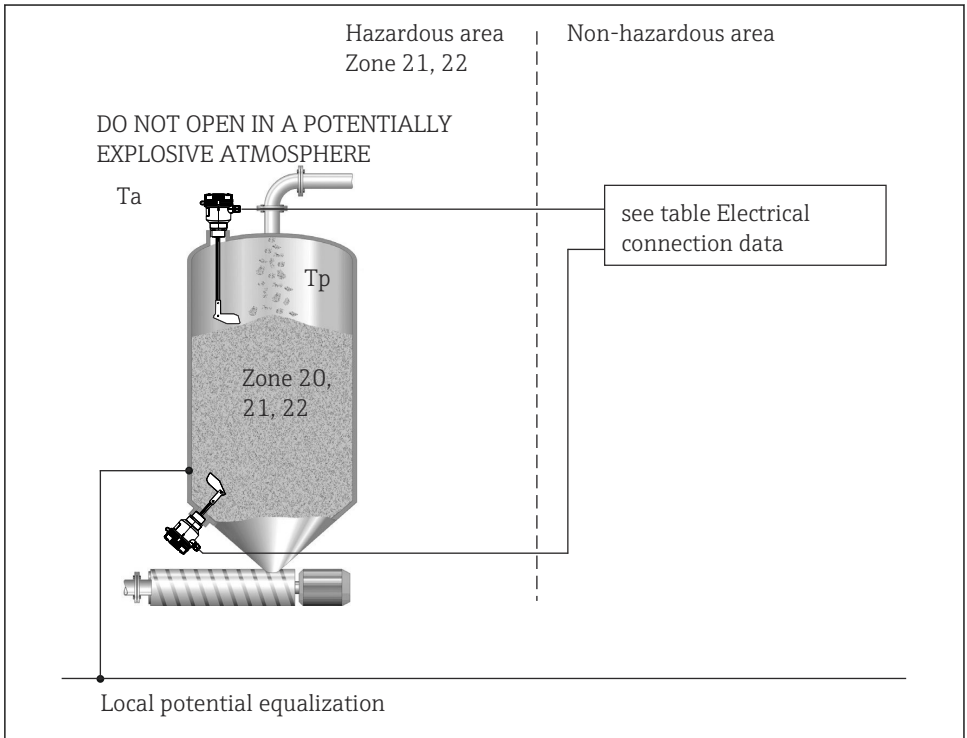
UKCA Declaration of Conformity

Declaration number: UK_00420, UK_00278

Manufacturer address

Endress+Hauser Wetzler GmbH + Co. KG
 Obere Wank 1
 87484 Nesselwang, Germany

Safety instructions:



A0050500

Safety instructions: Installation

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- Use only origin cable glands (part no. 71210658) provided by Endress+Hauser Temperature + System Products and seal tight (min. IP6X) IP6X to EN/IEC 60529.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.
- After mounting and connecting the limit switch, check that a degree of protection of at least IP66 to EN/IEC 60529 has been attained (screw lid tight, mount cable glands correctly).
- The Level limit switch must be connected to the potential matching line.

Safety instructions:
Specific conditions of use

To prevent the risk of electrostatic sparking, non-metallic surfaces should be cleaned with a damp cloth.



Explosive atmosphere

- ▶ In an explosive atmosphere, do not open the device when voltage is supplied (ensure that the IP6x housing protection is maintained during operation).

Electrical connection data

Point level switch	Supply voltage U_b
FTE20-xxxxxx1	20 to 28 V _{DC}
FTE20-xxxxxx2	24 V _{AC} 50/60 Hz
FTE20-xxxxxx3	115 V _{AC} 50/60 Hz
FTE20-xxxxxx4	230 V _{AC} 50/60 Hz

Switching output ratings
Max. 125 to 250 V _{AC} , 5 A 24 V _{DC} , 3 A Min. Switch load 300 mW (5 V/5 mA)

Category	Type of protection (ATEX/IEC)	Type
II2D	Ex tb IIC T110 °C Db	FTE20 (Electronic enclosure in zone 21)
II1D	Ex ta IIC T110 °C Da	FTE20 (Process connection in zone 20)

Type	Ambient temperature	Maximum surface temperature electronic enclosure (Zone 21 or EPL Db)
FTE20	-20 °C ≤ Ta ≤ +60 °C	T110 °C

Type	Process temperature	Maximum surface temperature process (Zone 20 or EPL Da)
FTE20	-20 °C ≤ Tp ≤ +60 °C	T110 °C



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www.addresses.endress.com
