

# Safety Instructions

## Soliswitch FTE20

Point level switch

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

Safety instructions for electrical  
apparatus in explosion-hazardous areas






# Soliswitch FTE20

Point level switch

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## About this document

 This document has been translated into several languages. Legally determined is solely the English source text.

The document translated into EU languages is available:

- In the download area of the Endress+Hauser website:  
[www.endress.com](http://www.endress.com) -> Downloads -> Manuals and Datasheets -> Type: Ex Safety Instruction (XA) -> Text Search: ...
- In the Device Viewer: [www.endress.com](http://www.endress.com) -> Product tools -> Access device specific information -> Check device features

 If not yet available, the document can be ordered.

## Associated documentation

This document is an integral part of the following Operating Instructions:

- Operating instructions: BA01069F
- Technical information: TI01047F

## Supplementary documentation

Explosion-protection brochure: CP00021Z/11

The Explosion-protection brochure is available:

- In the download area of the Endress+Hauser website:  
[www.endress.com](http://www.endress.com) -> Downloads -> Brochures and Catalogs -> Text Search: CP00021Z
- On the CD for devices with CD-based documentation

**Manufacturer's  
certificates****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

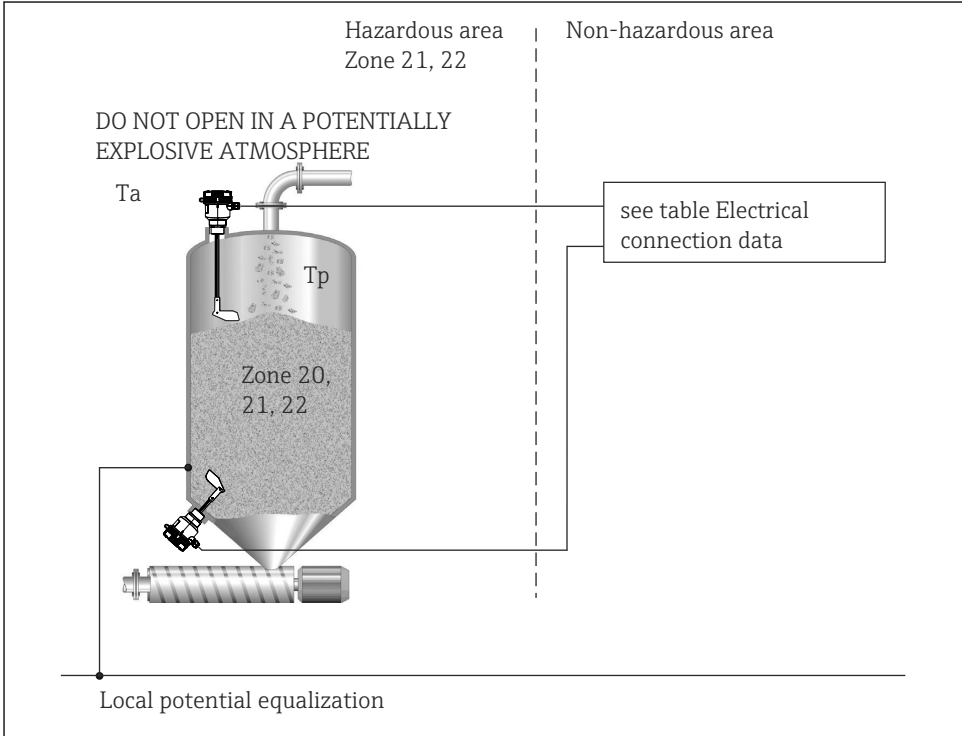
**UKCA Declaration of Conformity**

Declaration number: UK\_00420, UK\_00278

**Manufacturer  
address**

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

## Safety instructions:



## 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).
- Seal the cable entries tight with certified cable glands (min. IP6X) IP6X according 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:****Special conditions  
of use**

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

**⚠ WARNING****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 <sub>DC</sub>
FTE20-xxxxxx2	24 V <sub>AC</sub> 50/60 Hz
FTE20-xxxxxx3	115 V <sub>AC</sub> 50/60 Hz
FTE20-xxxxxx4	230 V <sub>AC</sub> 50/60 Hz

Switching output ratings
Max. 125 to 250 V <sub>AC</sub> 5 A 30 V <sub>DC</sub> 8 A Min. Switch load 300 mW (5 V/5 A)

Category	Type of protection (ATEX)	Type
II 2D	Ex tb IIIC T110 °C Db	FTE20 (Electronic enclosure in zone 21)
II1D	II1D Ex ta IIIC T110 °C Da	FTE20 (Process connection in zone 20)

Type of protection (IEC)	Type
Ex tb IIIC T110 °C Db	FTE20 (Electronic enclosure in zone 21)
Ex ta IIIC 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

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Type	Process temperature	Maximum surface temperature process (Zone 20 or EPL Da)
FTE20	$-20\text{ °C} \leq T_p \leq +60\text{ °C}$	T110 °C











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