

# Safety Instructions

## FTE20

Point level switch

II2D Ex tb IIIC T110 °C Db (Enclosure)

II1D Ex ta IIIC T110 °C Da (Process)

FM 14ATEX0040 X; IECEx FMG 12.0030X





# FTE20

Point level switch

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**Associated documentation**

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

- Operating instructions: BA01069F/09
- Technical information: TI01047F/09

**Manufacturer's certificates****ATEX certificate of conformity**

Certificate number: FM 14ATEX0040 X

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

- EN IEC 60079-0: 2018
- EN 60079-31: 2014

**IECEx certificate of conformity**

Certificate number: IECEx FMG 12.0030X

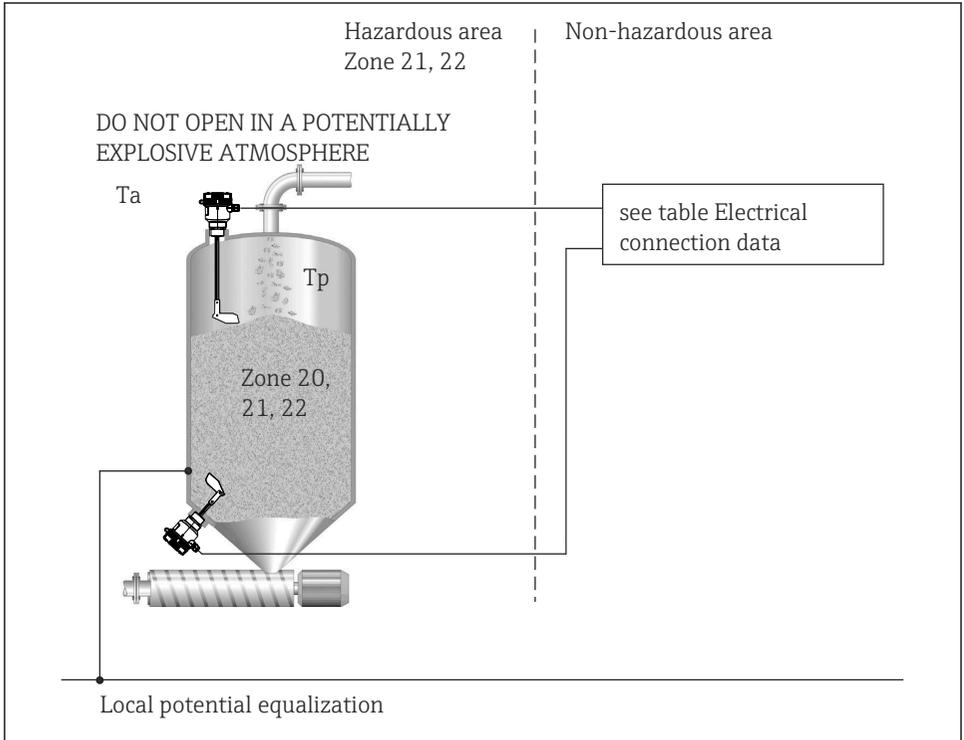
Affixing the certificate number certifies conformity with the following standards (depending on the device version).

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

**Manufacturer address**

Endress+Hauser Wetzler GmbH + Co. KG  
Obere Wank 1,  
D-87484 Nesselwang or [www.endress.com](http://www.endress.com)

## Safety instructions



A0023788-EN

### 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 (z.B. 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.

**Explosive atmosphere**

- ▶ In an explosive atmosphere, do not open the device when voltage is supplied (ensure that at least IP66 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 ≤ T <sub>a</sub> ≤ +60 °C	T110 °C

Type	Process temperature	Maximum surface temperature process (Zone 20 or EPL Da)
FTE20	-20 °C ≤ T <sub>p</sub> ≤ +60 °C	T110 °C





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[www.addresses.endress.com](http://www.addresses.endress.com)

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