

# Safety Instructions

## **FTE20**

Soliswitch

Ex tD A20/21 IP66 (T110°C)





# FTE20

Soliswitch

## Table of contents

Associated documentation .....	4
Certificates .....	4
Safety instructions .....	5
Safety Instructions: Installation .....	5
Safety Instructions: Special conditions of use .....	6
Electrical connection data .....	6

**Associated documentation**

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

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

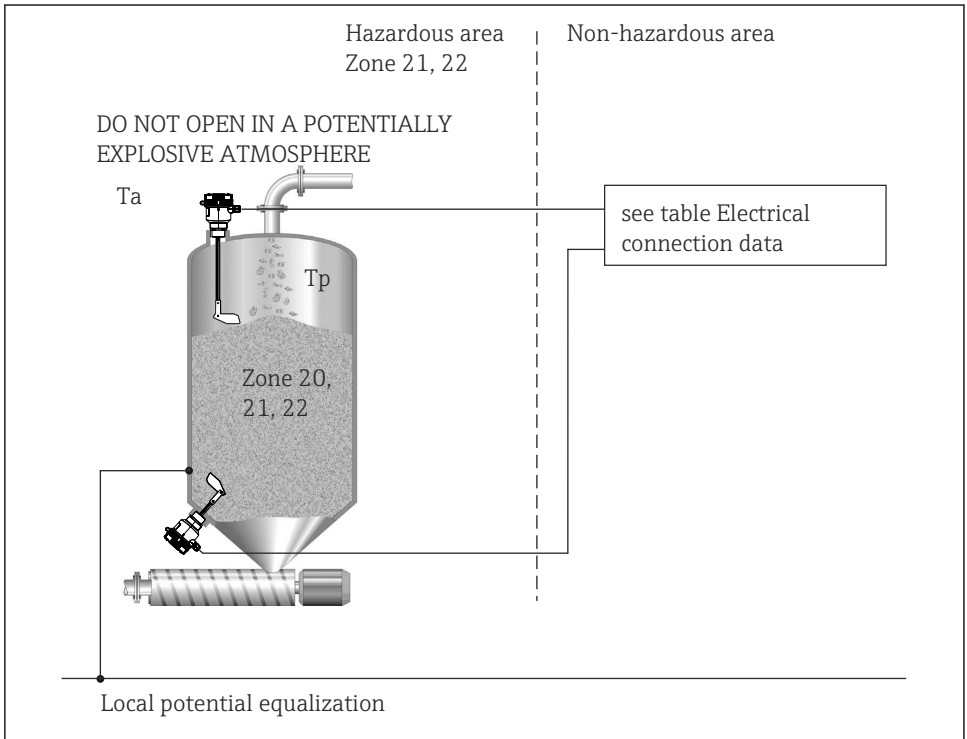
**Certificates****NEPSI certificate of conformity**

Certificate number: GYJ21.1229

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

- GB 12476.1-2013
- GB12476.5-2013

## Safety instructions



A0047131

### 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. GBT 3836.15/IEC 60079-14).
- Seal the cable entries tight with certified cable glands (min. IP6X) IP6X according to GBT 4208/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 Soliswitch, check that a degree of protection of at least IP66 to GBT 4208/IEC 60529 has been attained (screw lid tight, mount cable glands correctly).
- The Soliswitch must be connected to the potential matching line.
- The external earth connection facility shall be connected reliably.
- The ambient temperature range of this product is:  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ .
- Clean the surface of this product termly when using in combustible dust atmosphere.

- Any maintenance shall be performed only when the warning “Do not open when energized” is observed.
- The user shall not change the configuration in order to maintain/ensure the explosion protection performance of the equipment. Any change may impair safety.
- For installation, use and maintenance of this product, the end user shall observe the instruction manual and the following standards:
  - GB 50257-2014 “Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering”.
  - GB 3836.13-2013 “Explosive atmospheres - Part 13: Equipment repair, overhaul and reclamation”.
  - GB/T 3836.15-2017 “Explosive atmospheres - Part 15: Electrical installations design, selection and erection”.
  - GB/T 3836.16-2017 “Explosive atmospheres - Part 16: Electrical installations inspection and maintenance”.
  - GB 15577-2018 “Safety regulations for dust explosion prevention and protection”. (Only if installed in dust hazardous areas).
- Electrical data:

Power supply	Capacity
24 V <sub>AC</sub> , 115 V <sub>AC</sub> or 230 V <sub>AC</sub>	3.5 VA
20...28 V <sub>DC</sub>	3.5 VA

### 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 <sub>b</sub>
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)

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



71544777

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

---