

Safety Instructions

Soliswitch FTE20

Rotary paddle point level switch

Ex ta IIIC T₂₀₀ T110 °C Da

Ex tb IIIC T110 °C Db



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Rotary paddle 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).

To commission the device, please observe the Operating Instructions pertaining to the device:

www.endress.com/<product code>, e.g. Soliswitch FTE20

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

www.endress.com/Downloads

Certificates and declarations**NEPSI certificate**

Certificate number: GYJ26.1037X

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

- GB/T 3836.1-2021
- GB/T 3836.31-2021



Please refer to NEPSI/CCC certificates for conditions of safe use.

Manufacturer address

Endress+Hauser Wetzer GmbH + Co. KG

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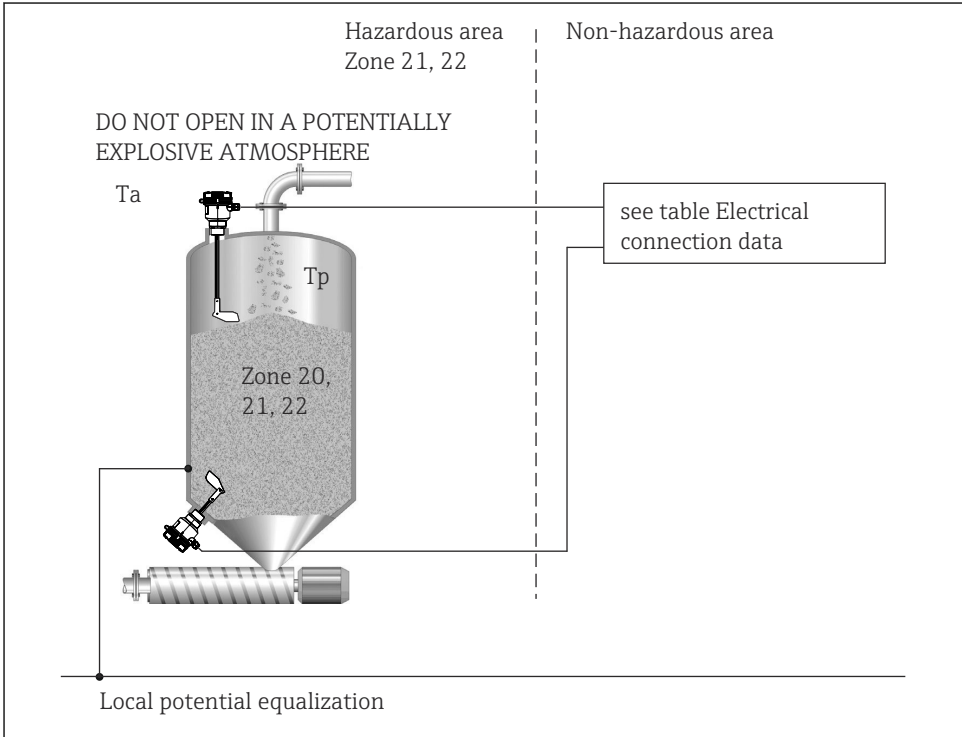
87484 Nesselwang, Germany

Endress+Hauser Wetzer (Suzhou) Co. Ltd.

Suzhou Industrial Park (SIP)

215126 Suzhou

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 Soliswitch, 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 device must be connected to the local potential equalization.

Safety instructions:
Specific conditions of use

- To prevent the risk of electrostatic sparking, non-metallic surfaces should be cleaned with a damp cloth.
- The product enclosure is equipped with a grounding terminal. The user must ensure reliable grounding during installation and use.
- When the product is used or maintained in a dusty environment, regular cleaning measures shall be taken to prevent the accumulation of dust on the surface.
- Power off before opening the cover.
- Users shall not arbitrarily replace the electrical components of the product by themselves. Any malfunctions that occur during operation shall be resolved in cooperation with the product manufacturer to avoid compromising the explosion-proof performance and causing damage.
- The installation, use, and maintenance of the product shall comply with the product user manual and the provisions of the following standards:
 - GB/T 3836.13-2021 "Explosive atmospheres- Part 13:Equipment repair, overhaul, reclamation and modification".
 - GB 3836.15-2024 "Explosive atmospheres- Part 15:Electrical installations design, selection and erection"
 - GB 3836.16-2024 "Explosive atmospheres- Part 16:Electrical installations inspection and maintenance".
 - GB50257-2014 "Code for construction and acceptance of electric equipment on fire and device for explosion hazard electrical installation engineering".
 - GB 15577-2018 "Safety regulation for dust explosion protection".

⚠ 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).

Temperature tables

Type	Ambient temperature	Maximum surface temperature electronic enclosure (Zone 21 or EPL Db)
Soliswitch FTE20	$-20\text{ °C} \leq T_a \leq +60\text{ °C}$	T110 °C

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

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
 30 V_{DC} 8 A
 Min. Switch load 300 mW (5 V/5 A)



71757353

www.addresses.endress.com
