

Safety Instructions

FTE20


Point level switch

Ex ta IIIC T 110 °C Da X

Ex tb IIIC T 110 °C Db X



Document: XA02355F

Safety instructions for electrical apparatus for explosion-hazardous areas →  3

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

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 → Download → Advanced → Documentation code: CP00021Z

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

Certification body: НАННО "ЦСБЭ"

Certificate number: EAЭС RU C-DE.AA87.B.00970

Affixing the certificate number certifies conformity with the following standards:

- GOST IEC 60079-14-2013
- GOST 31610.0-2014 (IEC 60079-0:2011)
- GOST IEC 60079-31-2013

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. GOST IEC 60079-14-2013.).
- Seal the cable entries tight with certified cable glands (min. IP6X) IP6X according to 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 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

Avoid electrostatic charging of the plastic housing (do not rub dry).

**Explosive atmosphere**

- ▶ In an explosive atmosphere, do not open the device when voltage is supplied (ensure that at least IP54 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 30 V _{DC} 8 A Min. Switch load300 mW(5 V/5 A)

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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