

Compact capacitance level switch CapFox® ENT 7



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Application

Suitable for detecting levels of powdered and finely grained bulk solids or of liquids. Especially suitable for use in silos, hoppers, tanks and containers.

Description

The CapFox® ENT 7 capacitance level switch forms with its associated probe a single compact unit.

The unit can be supplied with either a flexible or a rod probe. The probes, rigid or flexible (tensioned if required) can be mounted horizontally, vertically or at an angle. Flexible probes can also be retrofitted to the unit via an adapter.

The sensitivity is adjustable.

CapFox® ENT 7 features a voltage-free relay contact which switches when the pre-set level is reached. The relay contact is used to control ancillary electrical equipment such as conveyors, slider valves or flaps, pumps or blowers, visual or audible alarms, or as an input to a PLC.

Minimum or maximum fail-safe mode can be selected according to process requirements.

Technical specifications

Capacitance range

0–200 pF

Operating temperature range

Medium: -20 °C/+80 °C

Ambient: -20 °C/+60 °C

Process pressure

0/0.5 bar

Process connection

G1½B

Rigid rod probe

Stainless steel 1.4571 PP partly insulated, probe length 300 mm (min. length 300 mm – max. length 1,000 mm) or PTFE fully insulated, probe length 300 mm

Flexible probe

Stainless steel 1.4571, PP partly insulated probe length 3,000 mm (min. length 1,000 mm – max. length 6,000 mm)

Supply voltage

AC 230 V

Power consumption

5 VA

Relay output

Relay contact: 1 voltage-free changeover contact

Contact rating: AC 250 V, 4 A (resistive load)

Fail-safe mode

Integrated selector for min. or max. fail-safe mode (low/high)

Housing

Impact resistant plastic (ABS)
W x H x D: 104 x 65 x 144 mm

Protection

IP 65 (EN 60529)

Electrical connections

2 x cable gland PG 11

Options

- Supply voltage DC 24 V
- Other probe lengths
- Other probe designs
- High-temperature version (HT) up to max. 220 °C

DG: E

Version	Part no.	Price €
ENT 7, 300 mm PP partly insulated	52701	
Additional cost, probe extension per 100 mm		
ENT 7, 300 mm PTFE fully insulated	52707	
ENT 7, 3 m flexible probe	52708	
Additional cost, probe extension per m		
ENT 7 HT high-temperature version up to max. 220 °C (300 mm active probe length)	52709	

Capacitance level switch

CapFox® ENT 7 Types, dimensions (mm) and application examples

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