

Non hazardous area

Hazardous area

Intrinsically safe for:
 Class I, II, III; Division 1,
 Groups C, D, E, F, G (FTM 30 S/ 31 S)
 Groups C, D, E, F, G (FTM 32 S)

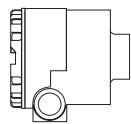
e.g.: FTL 120 Z, FTL 170 Z
 FTL 320 Z, FTL 37x Z

Power supply
 FMRC approved safety barriers or associated apparatus

Electronic insert
 FEM 37:
 $U_{max} = 16,7 V$
 $I_{max} = 140 mA$
 $P_{max} = 1 W$
 Ci - 0, Li - 0



Enclosure at wall F8



Enclosure at wall F6 / F10

Adapter for enclosure
 - aluminium coated
 - stainless steel



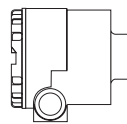
Terminal adapter

PG 16, 1/2 NPT

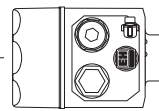
Fixing for wall fastening type



Connection cable



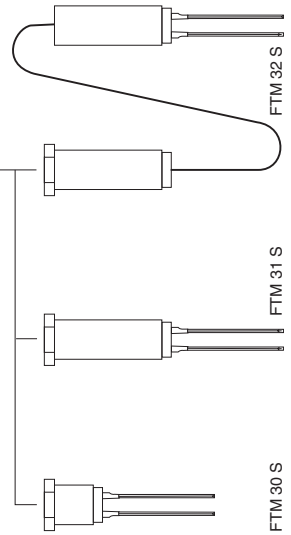
Enclosure F6 (Aluminium) F10 (Plastic)



Enclosure F8 (Stainless Steel)

- Notes:**
1. Control room equipment may not use or generate voltages over 250 Vrms.
 2. Use factory mutual entity approved safety barrier(s) in an approved configuration with V_{max} greater than V_t or V_{oc} and I_{max} greater than I_t or I_{sc}
 3. The barrier V_t or V_{oc} and I_t or I_{sc} may not exceed the electronic insert V_{max} and I_{max}
 4. C_i plus the cable capacitance may not exceed the barrier C_a and L_i plus the cable inductance may not exceed the barrier L_a
 5. Install per the national electrical code (NEC)
 6. Warning: Substitution of components may impair intrinsic safety
 7. A dust tight seal must be used at the conduit entry when the transmitter is used in a class II location
 8. Caution: Use supply wires suitable for 5 °C above surrounding ambient

- probe selection -



The relation between maximum process temperature and temperature class is shown in the following table:

Type	Temperature class	process temperature	ambient temperature of the electronic insert
FTM 30 S/31 S/ 32 S	T6	-40 °C ... 85 °C	-20 °C ... 70 °C
FTM 30 S/31 S	T5	-40 °C ... 100 °C	-20 °C ... 70 °C
FTM 30 S/31 S	T4	-40 °C ... 135 °C	-20 °C ... 70 °C
FTM 30 S/31 S	T3	-40 °C ... 150 °C	-20 °C ... 70 °C

Agency controlled drawing.
 No changes without prior Agency approval

ZD 018F/00/en/08.98/EHF
 FM / A 25.07.97



960379-0002

Control drawing (IS)
960379-0002 A

HTM 10 A
 FTM 30 S, 31 S, 32 S

Endress + Hauser

