

Non hazardous area

Hazardous area

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

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

FMRC approved safety barriers or associated apparatus

Power supply

Electronic insert FEL 37:
U_{max} = 16,7 V
I_{max} = 150 mA
P_{max} = 1 W
Ci - 0, Li - 0



Enclosure at wall F8



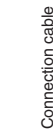
Terminal adapter



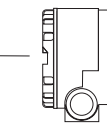
Fixing for wall fastening type

Adapter for enclosure
- aluminium coated
- stainless steel

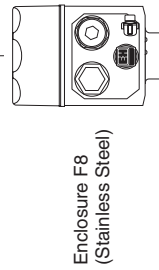
PG 16, 1/2 NPT



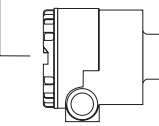
Connection cable



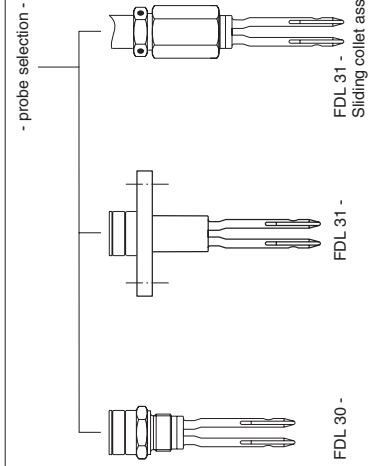
Enclosure at wall F6 / F10



Enclosure F8 (Stainless Steel)



Enclosure F6 (Aluminium) F10 (Plastic)



- 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. Ci plus the cable capacitance may not exceed the barrier Ca and Li plus the cable inductance may not exceed the barrier La
 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

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
FDL 3x -	T6	-40 °C ... 85 °C	-20 °C ... 70 °C
	T5	-40 °C ... 100 °C	-20 °C ... 70 °C
	T4	-40 °C ... 135 °C	-20 °C ... 70 °C
	T3	-40 °C ... 150 °C	-20 °C ... 70 °C

Agency controlled drawing.
No changes without prior Agency approval

ZD 019F/00/en/08.98/EHF
FM / A 04.08.97



960379-0012

Control drawing (IS)
960379-0012 A

HTL 10 A
FDL 30, FDL 31

Endress + Hauser

