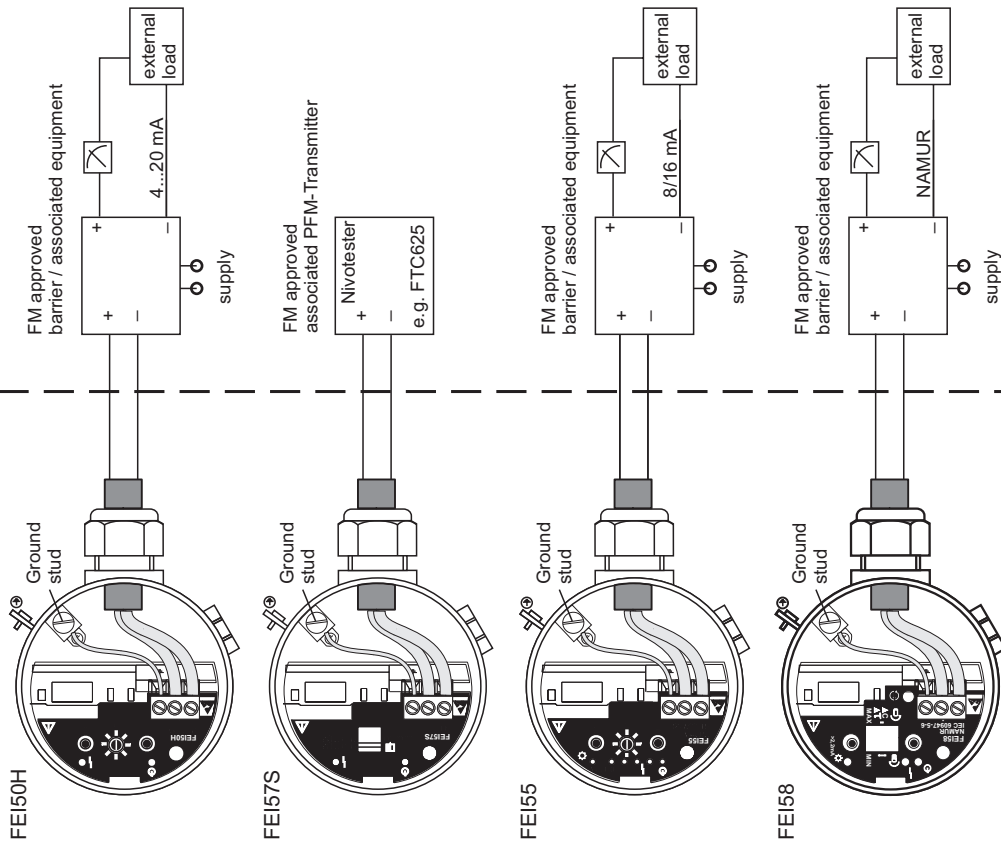


Hazardous classified location

Class I, Div. 1, 2, Groups A, B, C, D
 Class I, Zone 0,
 Class II, Div. 1, 2, Groups E, F, G
 Class III



Temperature code	Permissible ambient temperature electronic compartment
T6	-50°C...+60°C
T5, T4, T3	-50°C...+70°C

Non hazardous location

**Intrinsically safe (AEx ia), Class I, Div.1, Groups A, B, C, D
 Class II, Div.1, Groups E, F, G; Class III
 AEx ia IIC T6**

Hazardous Location Installations

- Control room equipment may not use or generate over 250 Vrms.
- Wire all circuits for power supply per NEC ANS/NFPA 70 and ISA RP 12.06.01.
- For entity installations use certified safety barrier or other associated equipment that satisfy the following conditions:

$V_{oc} \leq V_{max}$, $I_{sc} \leq I_{max}$, $C_a \geq C_1 + C_{cable}$, $L_a \geq L_1 + L_{cable}$ transmitter entity parameters are as follows:
 FEI50H insert Entity Parameters: $V_{max} \leq 30V$, $I_{max} \leq 120mA$, $P_1 \leq 1W$, $C_1 \leq 2.4nF$, $L_1 \approx 0$
 FEI57S insert Entity Parameters: $V_{max} \leq 16.1V$, $I_{max} \leq 100mA$, $P_1 \leq 1W$, $C_1 \leq 2.4nF$, $L_1 \approx 0$
 FEI58 insert Entity Parameters: $V_{max} \leq 36V$, $I_{max} \leq 100mA$, $P_1 \leq 1W$, $C_1 \leq 2.4nF$, $L_1 \approx 0$
 FEI55 insert Entity Parameters: $V_{max} \leq 18VDC$, $I_{max} \leq 52mA$, $P_1 \leq 170mW$, $C_1 \approx 0$, $L_1 \approx 0$

for T-code see table.

- WARNING: Substitution of components may impair intrinsic safety.
- Intrinsic safety barrier manufacturer's installation drawing must be followed, when installing this equipment.
- Use supply wires suitable for 5°C above surrounding ambient.

**Nonincendive Class I, Div. 2, Groups A, B, C, D
 Class II, Div. 1, Groups E, F, G; Class III**

Hazardous Location Installations

- Installation shall be in accordance with NEC using threaded conduit or other wiring methods in accordance with articles 500 to 510.
- Nonincendive field wiring installation.
 The nonincendive field wiring circuit concept allows interconnection of nonincendive field wiring apparatus with associated nonincendive field wiring apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when:

$V_{oc} \leq V_{max}$, $I_{sc} \leq I_{max}$, $C_a \geq C_1 + C_{cable}$, $L_a \geq L_1 + L_{cable}$ transmitter parameters are as follows:
 FEI50H insert: $V_{max} \leq 36V$, $I_{max} = \text{see note 3}$, $P_1 \leq 1W$, $C_1 \leq 2.4nF$, $L_1 \approx 0$
 FEI57S insert: $V_{max} \leq 16.1V$, $I_{max} \leq 100mA$, $P_1 \leq 1W$, $C_1 \leq 2.4nF$, $L_1 \approx 0$
 FEI55 insert: $V_{max} \leq 36V$, $I_{max} = \text{see note 3}$, $P_1 \leq 1W$, $C_1 \leq 2.4nF$, $L_1 \approx 0$
 FEI58 insert: $V_{max} \leq 18VDC$, $I_{max} \leq 52mA$, $P_1 \leq 170mW$, $C_1 \approx 0$, $L_1 \approx 0$

- For these current and voltage controlled circuits the parameters I_{sc} and I_1 of the associated nonincendive field wiring or not to be aligned with parameters I_{sc} and I_1 of the associated nonincendive field wiring or associated apparatus.

- WARNING: Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.
- WARNING: Substitution of components may impair suitability for Class I, Div. 2, Zone 2.

