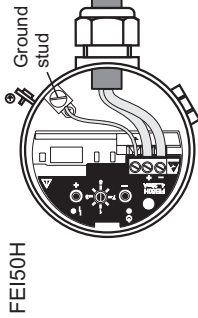
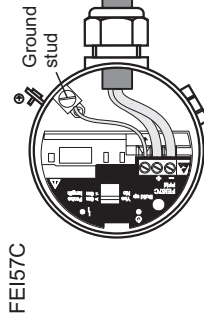
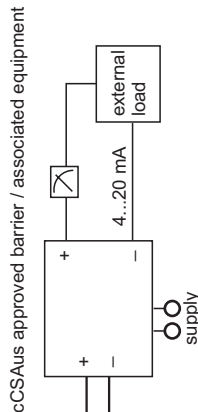


Hazardous classified location
 Class I, Div. 1, 2, Groups A, B, C, D
 Class I, Zone 0,
 Class II, Div. 1, 2, Groups E, F, G
 Class III

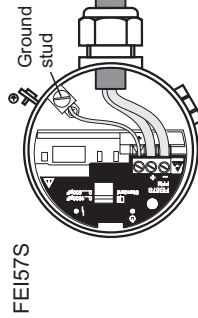
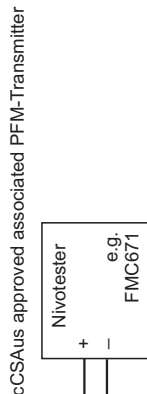


FEI50H

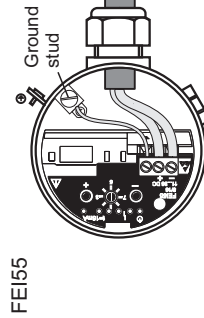
Non hazardous location



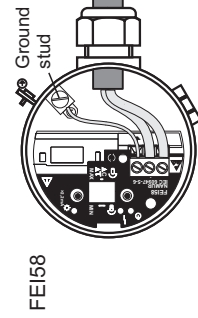
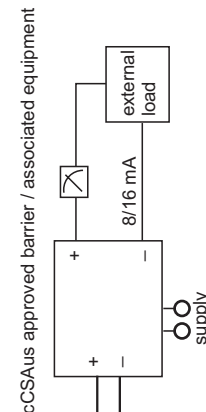
FEI57C



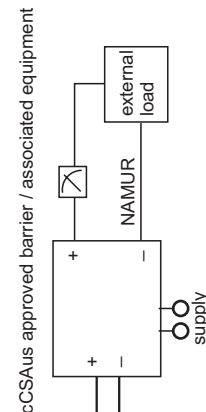
FEI57S



FEI55



FEI58



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

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

Hazardous Location Installations

- Control room equipment may not use or generate over 250 Vrms.
- Install per Canadian Electrical Code resp. National Electrical Code NFPA 70 (NEC).
- For entity installations: Use CSA certified safety barrier or other associated equipment that satisfy the following conditions:

$$V_{oc} \leq V_{max}, I_{sc} \leq I_{max}, C_a \geq C_i + C_{cable}, L_a \geq L_i + L_{cable} \quad \text{transmitter entity parameters are as follows:}$$

FEI50H insert Entity Parameters:	FEI57C insert Entity Parameters:	FEI57S insert Entity Parameters:	FEI55 insert Entity Parameters:	FEI58 insert Entity Parameters:
$V_{max} \leq 30\text{ V}$	$V_{max} \leq 19.2\text{ V}$	$V_{max} \leq 16.1\text{ V}$	$V_{max} \leq 36\text{ V}$	$V_{max} \leq 18\text{ V DC}$
$I_{max} \leq 120\text{ mA}$	$I_{max} \leq 108\text{ mA}$	$I_{max} \leq 100\text{ mA}$	$I_{max} \leq 100\text{ mA}$	$I_{max} \leq 52\text{ mA}$
$P_1 \leq 1\text{ W}$	$P_1 \leq 1\text{ W}$	$P_1 \leq 1\text{ W}$	$P_1 \leq 1\text{ W}$	$P_1 \leq 170\text{ mW}$
$C_i \leq 2.4\text{ nF}$	$C_i \leq 2.4\text{ nF}$	$C_i \leq 2.4\text{ nF}$	$C_i \leq 2.4\text{ nF}$	$C_i \approx 0$
$L_i \approx 0$	$L_i \approx 0$	$L_i \approx 0$	$L_i \approx 0$	$L_i \approx 0$

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. The configuration of the intrinsic barriers must be CSA approved.
- Use supply wires suitable for 5°C above surrounding ambient.
- Single seal device according ISA 12.27.01; Gas tight conduit seal not required.

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

Hazardous Location Installations

- Installation per Canadian Electrical Code resp. National Electrical Code NFPA 70 (NEC). Intrinsic safety barrier not required.
- Nonincendive field wiring installation.
 The nonincendive field wiring circuit concept allows interconnection of nonincendive field wiring apparatus with associated apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $V_{oc} \leq V_{max}, I_{sc} \leq I_{max}, C_a \geq C_i + C_{cable}, L_a \geq L_i + L_{cable}$ transmitter parameters are as follows:

FEI50H insert Entity Parameters:	FEI57C insert Entity Parameters:	FEI57S insert Entity Parameters:	FEI55 insert Entity Parameters:	FEI58 insert Entity Parameters:
$V_{max} \leq 36\text{ V}$	$V_{max} \leq 19.2\text{ V}$	$V_{max} \leq 16.1\text{ V}$	$V_{max} \leq 36\text{ V}$	$V_{max} \leq 18\text{ V DC}$
$I_{max} = \text{see note 3}$	$I_{max} \leq 108\text{ mA}$	$I_{max} \leq 100\text{ mA}$	$I_{max} = \text{see note 3}$	$I_{max} \leq 52\text{ mA}$
$P_1 \leq 1\text{ W}$	$P_1 \leq 1\text{ W}$	$P_1 \leq 1\text{ W}$	$P_1 \leq 1\text{ W}$	$P_1 \leq 170\text{ mW}$
$C_i \leq 2.4\text{ nF}$	$C_i \leq 2.4\text{ nF}$	$C_i \leq 2.4\text{ nF}$	$C_i \leq 2.4\text{ nF}$	$C_i \approx 0$
$L_i \approx 0$	$L_i \approx 0$	$L_i \approx 0$	$L_i \approx 0$	$L_i \approx 0$

- For these current and voltage controlled circuits the parameter I_{max} is not required and need not be aligned with parameters I_{sc} and I_l 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.

