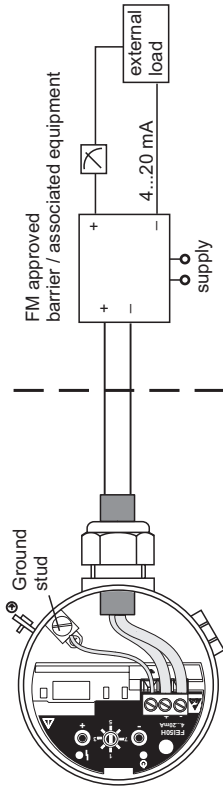
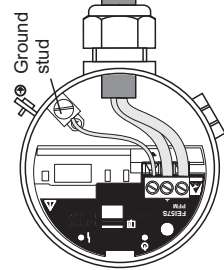


Hazardous classified location

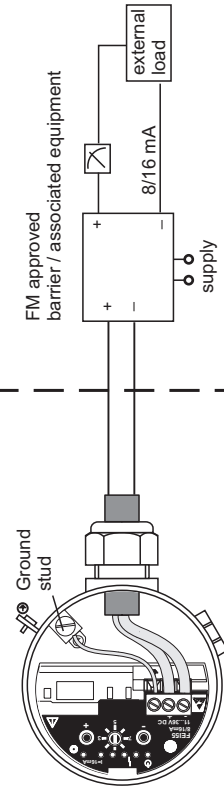
Class I, Div. 1, 2, Groups A, B, C, D
 Class I, Zone 0
 Class II, Div. 1, 2, Groups E, F, G
 Class III



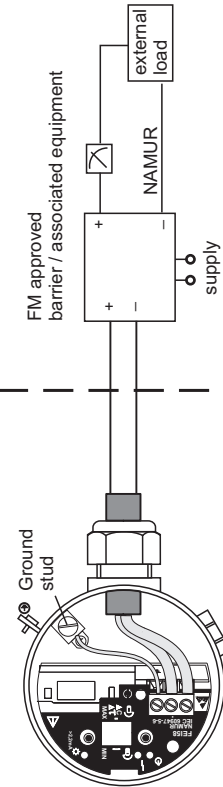
FEI50H



FEI57S



FEI55



FEI58

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

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

$V_{oc} \leq V_{max} \leq V_{max} + C_{cable}$, $I_{sc} \geq C_1 + C_{cable}$, $L_{sc} \geq L_1 + L_{cable}$ transmitter entity parameters are as follows:

FEI50H insert Entity Parameters:	FEI57S insert Entity Parameters:	FEI55 insert Entity Parameters:	FEI58 insert Entity Parameters:
$V_{max} \leq 30 V$	$V_{max} \leq 16.1 V$	$V_{max} \leq 36 V$	$V_{max} \leq 18 V DC$
$I_{max} \leq 120 mA$	$I_{max} \leq 100 mA$	$I_{max} \leq 100 mA$	$I_{max} \leq 52 mA$
$P_1 \leq 1 W$	$P_1 \leq 1 W$	$P_1 \leq 1 W$	$P_1 \leq 170 mW$
$C_1 \leq 2.4 nF$	$C_1 \leq 2.4 nF$	$C_1 \leq 2.4 nF$	$C_1 \approx 0$
$L_1 \approx 0$	$L_1 \approx 0$	$L_1 \approx 0$	$L_1 \approx 0$

for T-code see table.

- 4) WARNING: Substitution of components may impair intrinsic safety.
- 5) Intrinsic safety barrier manufacturer's installation drawing must be followed, when installing this equipment.
- 6) 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

- 1) Installation shall be in accordance with NEC using threaded conduit or other wiring methods in accordance with articles 500 to 510.
- 2) 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:

$V_{oc} \leq V_{max} \leq V_{max} + C_{cable}$, $I_{sc} \geq C_1 + C_{cable}$, $L_{sc} \geq L_1 + L_{cable}$ transmitter parameters are as follows:

FEI50H insert: Entity Parameters:	FEI57S insert: Entity Parameters:	FEI55 insert: Entity Parameters:	FEI58 insert: Entity Parameters:
$V_{max} \leq 36 V$	$V_{max} \leq 16.1 V$	$V_{max} \leq 36 V$	$V_{max} \leq 18 V DC$
$I_{max} \leq 120 mA$	$I_{max} \leq 100 mA$	$I_{max} \leq 100 mA$	$I_{max} \leq 52 mA$
$P_1 \leq 1 W$	$P_1 \leq 1 W$	$P_1 \leq 1 W$	$P_1 \leq 170 mW$
$C_1 \leq 2.4 nF$	$C_1 \leq 2.4 nF$	$C_1 \leq 2.4 nF$	$C_1 \approx 0$
$L_1 \approx 0$	$L_1 \approx 0$	$L_1 \approx 0$	$L_1 \approx 0$

- 3) For these current and voltage controlled circuits the parameters I_{sc} and L_1 of the associated nonincendive field wiring need not be aligned with parameters I_{sc} and L_1 of the associated nonincendive field wiring or associated apparatus.
- 4) WARNING: Exposed 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.

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

