ZD242F-B/00/EN/04.10
CCS/FM6.0
CSA/B 04.02.10

71114448

CSA Control Drawing 96009465 B

Solicap S
FTI77
Entity installation (IS and NI)

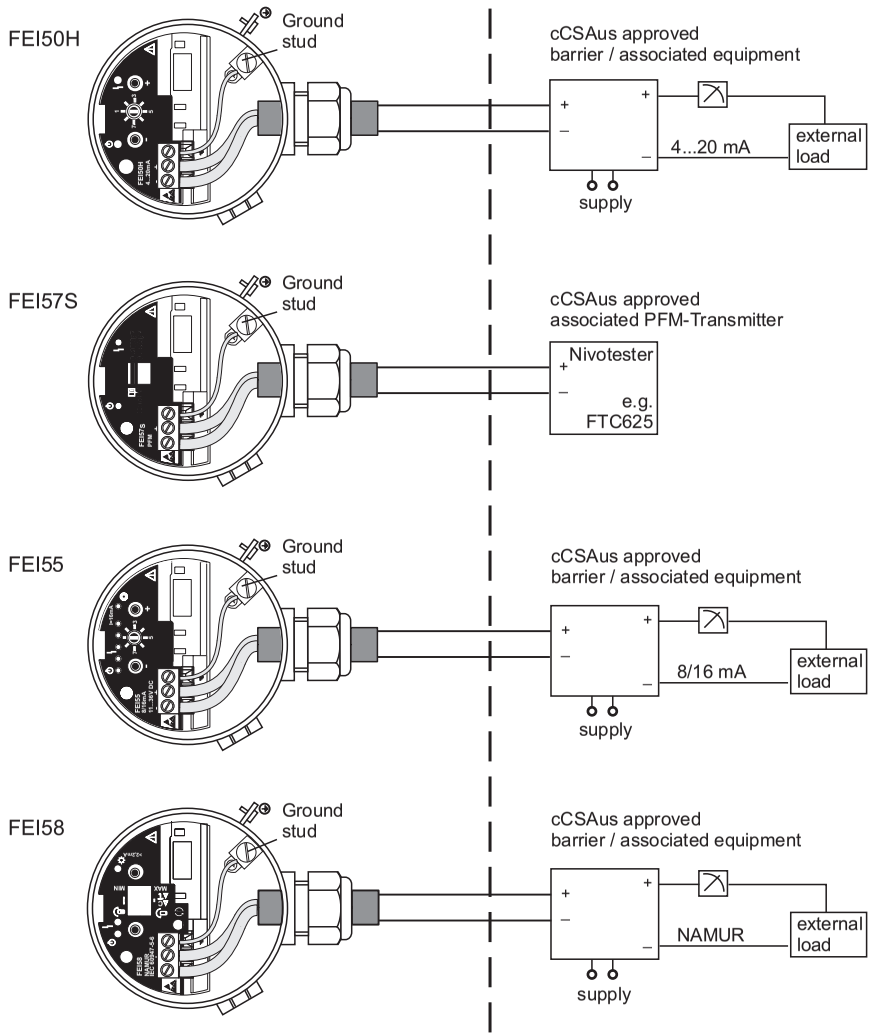
Endress+Hauser

People for Process Automation

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

Non hazardous location



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

1) Control room equipment may not use or generate over 250 Vrms.
2) Install per Canadian Electrical Code.
3) For entity installations: Use CSA certified safety barrier or other associated equipment that satisfy the following conditions:
$V_{oc} \le V_{max}$, $I_{sc} \le I_{max}$, $C_a \ge C_i + C_{cable}$, $L_a \ge L_i + L_{cable}$ transmitter entity parameters are as follows:

FEI50H insert Entity Parameters:	FEI57S insert Entity Parameters:	FEI55 insert Entity Parameters:	FEI58 insert Entity Parameters:
$V_{max} \le$ 30 V	$V_{max} \le$ 16.1 V	$V_{max} \le$ 36 V	$V_{max} \le$ 18 V DC
$I_{max} \le$ 120 mA	$I_{max} \le$ 100 mA	$I_{max} \le$ 100 mA	$I_{max} \le$ 52 mA
$P_i \le$ 1 W	$P_i \le$ 1 W	$P_i \le$ 1 W	$P_i \le$ 170 mW
$C_i \le$ 2.4 nF	$C_i \le$ 2.4 nF	$C_i \le$ 2.4 nF	$C_i \approx$ 0
$L_i \approx$ 0	$L_i \approx$ 0	$L_i \approx$ 0	$L_i \approx$ 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. The configuration of the intrinsic barriers must be CSA approved.
6) Use supply wires suitable for 5°C above surrounding ambient.
7) In case of use of PTFE rod avoid electrostatic charge at the rod (e.g. do not rub with dry cloth; do not install within the solid flow).

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 per Canadian Electrical Code using threaded metal conduit.
Intrinsic safety barrier not required.
2) Nonincendive field wiring installation.
The nonincendive field wiring circuit concept allowes 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:
$V_{oc} \le V_{max}$, $I_{sc} \le I_{max}$, $C_a \ge C_i + C_{cable}$, $L_a \ge L_i + L_{cable}$ transmitter parameters are as follows:

FEI50H insert:	FEI57S insert:	FEI55 insert:	FEI58 insert:
$V_{max} \le$ 36 V	$V_{max} \le$ 16.1 V	$V_{max} \le$ 36 V	$V_{max} \le$ 18 V DC
$I_{max} =$ see note 3)	$I_{max} \le$ 100 mA	$I_{max} =$ see note 3)	$I_{max} \le$ 52 mA
$P_i \le$ 1 W	$P_i \le$ 1 W	$P_i \le$ 1 W	$P_i \le$ 170 mW
$C_i \le$ 2.4 nF	$C_i \le$ 2.4 nF	$C_i \le$ 2.4 nF	$C_i \approx$ 0
$L_i \approx$ 0	$L_i \approx$ 0	$L_i \approx$ 0	$L_i \approx$ 0

3) For these current and voltage controlled circuits the parameters I_{max} is not required and need not to be aligned with parameters I_{sc} and I_t of the associated nonincendive field wiring or associated apparatus.
4) 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.
5) In case of use of PTFE rod avoid electrostatic charge at the rod (e.g. do not rub with dry cloth; do not install within the solid flow).