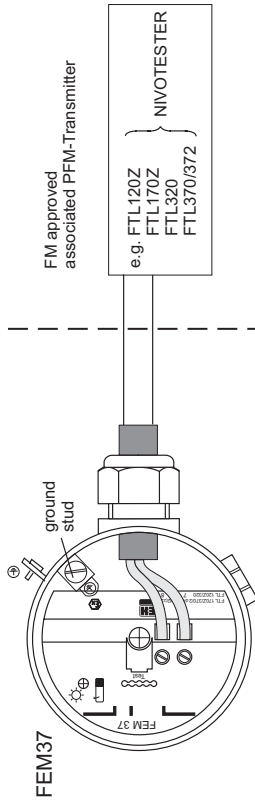




**FM Control Drawing**  
**960362-0066 B**  
 Soliphant II (IS and NI)  
 Current output PFM, NAMUR  
 Entity installation

**Hazardous classified location**

Class I, II, III; Division 1, 2  
 Groups A, B, C, D, E, F, G (FTM30S/31S)  
 Groups C, D, E, F, G (FTM32S)



FM approved associated PFM-Transmitter

**Non hazardous location**

**Functional ratings:**

These ratings do not supersede Hazardous Location values

FEM37:  
 $U_{nom} = 11...16,7$  VDC  
 $I_{nom} = 11...14,0$  mA

**Intrinsically safe (entity), Class I, Div.1, Groups A,B,C,D Hazardous Location Installations**

- Control room equipment may not use or generate over 250 Vrms
- Wire all circuits for power supply per NEC ANSI/NFPA 70 and ISA RP 12.06.01
- Use entity approved safety barrier or other associated equipment that satisfy the following conditions:  
 $V_{oc} \leq V_{max}$ ,  $I_{sc} \leq I_{max}$ ,  $C_a \geq C_i + C_{cable}$ ,  $L_a \geq L_i + L_{cable}$   
 Transmitter entity parameters are as follows:

FEM37 insert  
 Entity Parameters:  
 $V_{max} \leq 16,7$  V  
 $I_{max} \leq 140$  mA  
 $P_i \leq 1$  W  
 $C_i \approx 0$   
 $L_i \approx 0$

- WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY**
- Ex ia is defined as Intrinsically Safe
- Use supply wires suitable for 5°C above surrounding ambient

**Division 2 and Zone 2 installation**

- 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 or associated methods permitted for unclassified locations, when  
 $V_{max} \geq V_{oc}$  or  $V_i$ ,  $C_a \geq C_i + C_{cable}$ ,  $L_a \geq L_i + L_{cable}$   
 Transmitter parameters are as follows:

FEM37 Insert  
 NIFW Parameters:  
 $V_{max} \leq 16,7$  V  
 $I_{max} =$  see note 9  
 $P_i \leq 1$  W  
 $C_i \approx 0$   
 $L_i \approx 0$

- For these voltage controlled circuit with current limitation, the parameters  $I_{max}$  is not required and need not to be aligned with parameters  $I_{sc}$  and  $I_i$  of the associated nonincendive field wiring or associated apparatus

- WARNING: EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 OR CLASS I, ZONE 2**

**Class II, III installation (without barrier)**

- Installation of transmitter circuit wiring according to NEC using threaded conduit or other wiring methods in accordance with articles 500 to 510