

Hazardous location

Class I, DIV. 1, Groups A, B, C, D
AEx ia IIC T4
Class I, DIV. 2, Groups A, B, C, D

Non hazardous location

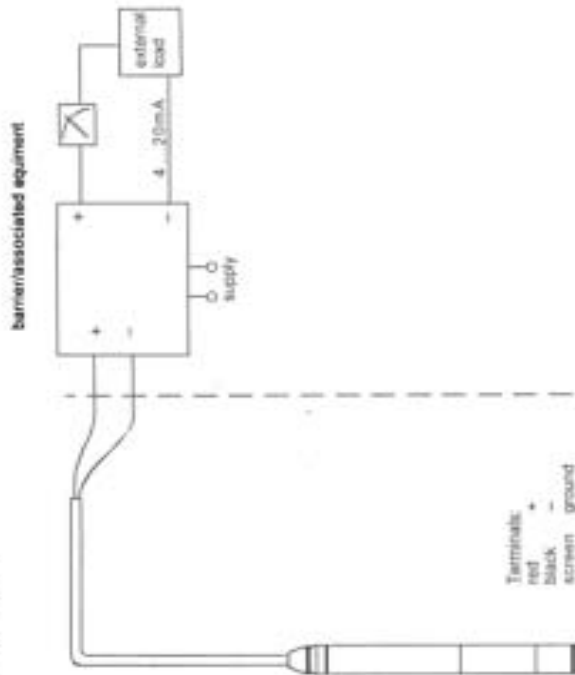


Table Entry parameters set:

Vmax = 30VDC
Imax = 133mA
Pmax = 1W
C selectable
L selectable

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

- Control room equipment may not use or generate over 250V
- Use Factory Mutual E n tly-approved intrinsic safety barrier with Voc or V1 ≤ Vmax
Isc or R ≤ Imax, C a 2, C1 + C, use La 2, L1 + L, use
Barrier must be incapable of delivering more than 1 Watt to a matched load.
Transmitter entry parameters as follows:
Vmax = 30VDC
Imax = 133mA
Pmax = 1 W

Cable length table:

Length of cable (m)	C (5.3 nF + 180 pF/m)	L1 (µH/m)
5 m	6.2 nF	5 µH
10 m	7.1 nF	10 µH
20 m	8.9 nF	20 µH
30 m	10.7 nF	30 µH
50 m	14.3 nF	50 µH
100 m	23.3 nF	100 µH
200 m	41.3 nF	200 µH
300 m	59.3 nF	300 µH

- Installation should be in accordance with ANSI/ISA SP12.6, installation of intrinsically safe systems for hazardous (classified) locations and the National Electrical Code (ANSI/NFPA 70).
- 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 safety barrier(s) must be FMRC approved.
- Use supply wire suitable for 8°C above surrounding ambient.

**Nonintrinsic Class, DIV. 2, group A, B, C, D.
Hazardous Location Installation**

- Install per National Electrical Code (NEC) DIV. 2 barrier required
max. supply voltage 30 VDC
- Warning: Explosion Hazard-Do not disconnect equipment unless power has been switched off or area is known to be non-hazardous.
Warning: Substitution of components may impair suitability for Class I, DIV. 2
Note: For nonintrinsic field circuit evaluations, the output current (Imax or I1) of the receiving device need not match the output current (Isc or I2) of the barrier associated equipment supplying the energy.

ORIGINAL

Class Document: 16-402FM-12
This document contains safety-related information and is intended for use by qualified personnel only.

fp	PEPPERL+FUCHS	FM control drawing	16-402FM-12
	München	Projektion: GC	Rev. 1
		10.08.01	

Barriere-Geräte	Produktionsjahr
Barriere-Geräte	Produktionsjahr