

inductance per unit length L':

0.4 ... 1 mH/km

15 ... 150 Ohm /km

One of the allowed terminations might already be integrated in the associated apparatus.

C'= C' line/line + 0,5 C' line/screen, if both lines are floating or C'= C' line/line + C' line/screen,

At each end of the trunk cable an approved infallible line termination with the following parameters is suitable:

length of trunk cable: 1 km length of splice: 1 m

the following range:

loop resistance R':

capacitance per unit length C': 80 ... 200 nF/km

if the screen is connected to one line

 $R = 90 ... 100 Ohm C = 0 ... 2.2 \mu F.$

length of spur cable: 30 m

NONHAZARDOUS LOCATION

Any

CSA Approved

Associated

Apparatus

Suitable for

Entity-concept

FISCO-concept

CLASS I, DIV.1, GROUPS A,B,C,D CLASS II Div.1 GROUPS E,F,G CLASS III Ex ia IIC T6

- 1. CSA certifed apparatus must be installed in accordance with manufacturer instructions
- 2. CSA certified associated apparatus must meet the following requirements: Uo or Voc or Vt \leq Ui (Vmax) and lo or lsc or It \leq li (Imax) and Po or Pmax ≤ Pi (Pmax)
- 3. The maximum non-hazardous area voltage must not exceed 250 V.
- 4. The installation must be in accordance with the Canadian Electrical Code or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01
- 5. Be aware of multiple earthing of screen. The screen must be connected in accordance with Canadian Electrical code or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01
- 6. Caution: Use only supply wires suitable for 5 °C above surrounding temperature
- 7. Warning: Substitution of components may impair intrinsic safety.
- 8. The polarity for connecting is of no importance due to an internal rectifier.

Suitable for, CLASS I, DIV.2, GROUP A,B,C,D CLASS II, DIV.1, GROUP E,F,G **HAZARDOUS LOCATION INSTALLATION**

- 1. Install per Canadian Electrical Code (CEC) or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01
- Intrinsic safety barrier not required. Max.supply voltage 32V. For T-code see table.
- 2. WARNING: Explosion Hazard do not disconnect equipment unless power has been switched off or the area is known to be Non-Hazardous. AVERTISSEMENT: Risque d'explosion -Ne pas débrancher tant que le circuit est sous tension, à moins qu'il s'agisse d'un emplacement non dangereux.

WARNING: Explosion HAZARD- Substitution of components may impair suitability for CLASS I, Division 2.

AVERTISSEMENT: Risque d'explosion- La substitution de composant peut rendre ce material inacceptable pour les emplacements de Class I, Div.2.

Control Drawing no. 116-0387

Dieses Dokument enthält sicherheitsrelevante Angaben. Es darf nicht ohne Absprache mit dem Normenfachmann (NE Ex) geändert werden!		
This document contains safety-relevant information. It must not be altered without the authorization of the norm expert (NE Ex)!		
CONFIDENTIAL acc. to ISO 16016	Only valid as long as released in EDM or with a valid production documentation!	date: 2014 March 04
PEPPERL+FUCHS	Control Drawing - CSA PPC-M51, LHC-M51 Profibus PA	16-990CS-12A
P+F Global		sheet 2 of 4