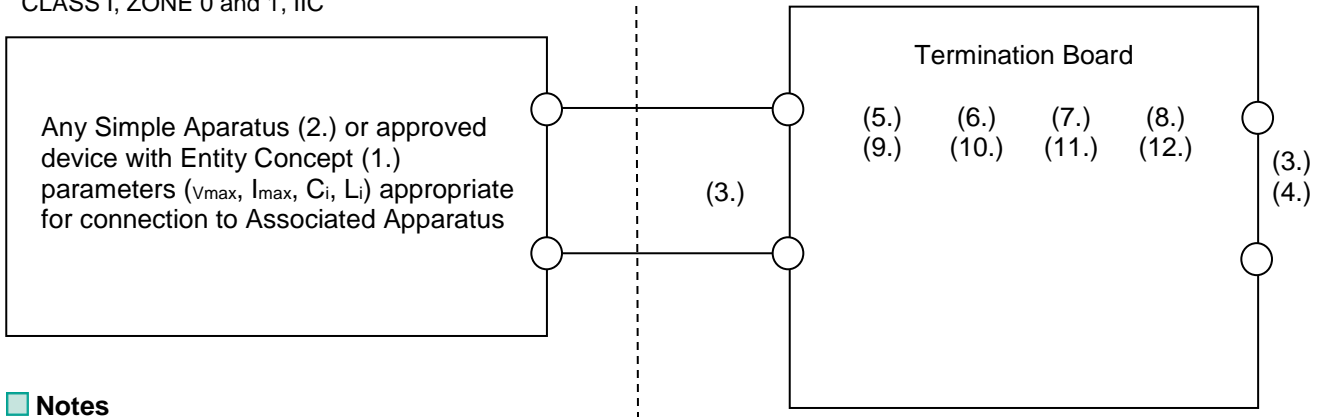


Connections


NON-HAZARDOUS LOCATION
or
HAZARDOUS (CLASSIFIED) LOCATION
CLASS I, DIVISION 1, GROUPS A,B,C,D
CLASS II, DIVISION 1, GROUPS E,F,G
CLASS III, DIVISION 1
or
CLASS I, ZONE 0 and 1, IIC

NON-HAZARDOUS LOCATION
or
HAZARDOUS (CLASSIFIED) LOCATION
CLASS I, DIVISION 2, GROUPS A,B,C,D (see Note 6.)
CLASS I, ZONE 2 Group IIC (see Note 6.)



Notes

1. The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of Voc (or Uo) and Isc (or Io) for the associated apparatus are less than or equal to Vmax (Ui) and Imax(Ii) for the intrinsically safe apparatus and the approved values of Ca(Co) and La(Lo) for the associated apparatus are greater than Ci + Ccable and Li + Lcable, respectively, for the intrinsically safe apparatus,
Where Ccable= 60pF/ft if unknown
Where Lcable= 0.20uH/ft if unknown
The Entity Parameters of each channel depends on the barrier which is plug in the Termination Board (see control drawing of the barrier).
2. Simple apparatus: an electrical component or combination of components of simple construction with well-defined electrical parameters that does not generate more than 1.5 V, 100mA, 25mW, or is a passive component that does not disipate more than 1.3W and is compatible with the intrinsic safety of the circuit in which it is used.
3. Wiring methods must be in accordance with all applicable installation requirements of the county in use. For US, this is NFPA 70 (NEC) article 504 with additional information in ANSI-ISA –RP12.06.01. For Canada this is CSA 22.1-12 (CEC) section 18 and appendix F.
4. The Termination Boards shall not be connected to any device which uses or generates internally any voltage in excess of the maximum voltage Um of the barriers which are plug in the Termination Board (see Control drawing of the barrier) unless the device has been determined to adequately isolate the voltage from the Termination Board.
5. Associated apparatus must be installed in an enclosure suitable for the application in accordance with the National Electrical Code (ANSI/NFPA 70) for installation in the United States, the Canadian Electrical Code for installations in Canada, or other local codes, as applicable.
6. Only the Termination boards in the below list are suitable for installation in Class I Div. 2 resp. Class 1 Zone 2. However installation in Class I Div. 2 resp. Class 1 Zone 2 is only permitted if all used barriers are also suitable for installation in Class I Div. 2 resp. Class 1 Zone 2.:
 - HiCTB08-SCT-44C-SC-RA;
 - HiCTB16-SCT-44C-SC-RA
 - HiCTB16-SDC-24C-SC-RA;
 - HiCTF16-HON-FC-RIO16-SD-PF
 - HiCTF16-HON-SC-UNI16-SD-PF

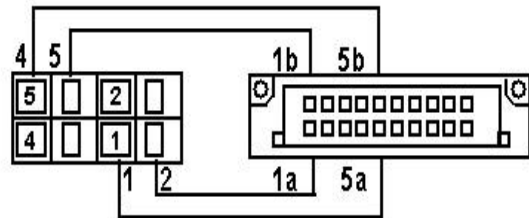
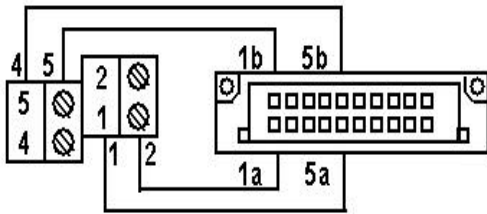
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Only valid as long as released in EDM		date: 2019-Nov-13
 PEPPERL+FUCHS	Control drawing for	116-0327N
	HiC Termination Board	sheet 1 of 2
Global		

7. The Termination Boards listed in 6. are rated `non-incendive` for use in Class I Div. 2 resp. Class 1 Zone 2. A temperature rating of T4 applies.
8. If the Termination Boards listed in 6. are intended to be mounted in a Class I Div. 2 location, they shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Div. 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1), as applicable. The equipment shall be installed in an enclosure with a minimum ingress protection of IP2X.
9. If the Termination Boards listed in 6 are intended to be mounted in a Class I Zone 2 location, they shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I Zone 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1), as applicable. The equipment shall be installed in an AEx and EX certified IP54 enclosure unless the apparatus is intended to be afforded an equivalent degree of protection by location. The device can only be used in an area of not more than Pollution degree 2.
10. This associated apparatus has not been evaluated for use in combination with another associated apparatus.
11. The permitted ambient temperature range is -20°C to 60°C.
12. Associated Apparatus for use in Unclassified Locations - Models HiCT followed by B or F; followed by 08, 16, or 32; followed by three alphanumeric characters; may be followed by two alphanumeric characters; may be followed by up to six alphanumeric characters; followed by two to four alphanumeric characters; followed by CC, SC, SP, PL or PF; may be followed by up to six alphanumeric characters, may be followed by Y plus one numeric character.

Correlation between the barrier and terminal block of the hazardous location:

Version with screw terminals, pluggable terminals or pluggable terminals with flange:


Version with spring terminals:



List of approved HiC-Barrier:

Barrier:	Control drawing
HiC2025	116-0458
HiC2025A	116-0458
HiC2025ES	116-0376
HiC2025HC	116-0392
HiC2027	116-0349
HiC2027DE	116-0349
HiC2027ES	116-0349
HiC2031	116-0458
HiC2031ES	116-0472
HiC2031HC	116-0393
HiC2065	116-0317
HiC2068	116-0317
HiC2077	116-0333
HiC2081	116-0391
HiC2095	116-0350
HiC2441**	116-0408

Barrier:	Control drawing
HiC2821	116-0434
HiC2822	116-0434
HiC2831*	116-0331
HiC2832*	116-0331
HiC2841*	116-0331
HiC2842*	116-0331
HiC2851*	116-0364
HiC2853*	116-0364
HiC2871A*	116-0447
HiC2873*	116-0383
HiC2877*	116-0383
HiC2883*	116-0447

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 Global	Control drawing for	116-0327N
	HiC Termination Board	sheet 2 of 2