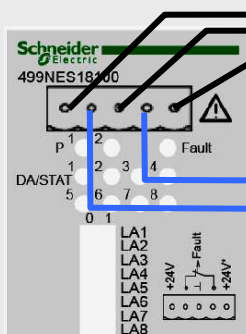


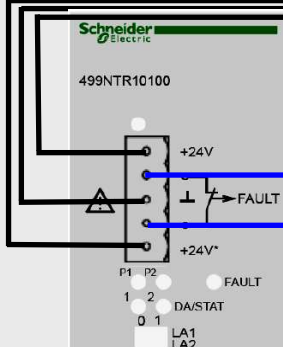
CONTROL DRAWING: Hazardous Locations Class I Division 2 Groups A, B, C, D

HAZARDOUS LOCATION

Detail: 499xxx



Detail: 499NTRxxx



NON HAZARDOUS LOCATION

Power Supply: (Redundant: P1 P2)
24 V DC

Relay Contacts:
Associated Apparatus:
Equipment with nonincendive field wiring

Power Supply: (Redundant: P1 P2)
24 V DC

Relay Contacts:
Associated Apparatus:
Equipment with nonincendive field wiring

The Use in Hazardous Locations is only allowed for ConneXium Switches and ConneXium Transceiver model No's which are individually labelled "FOR USE IN CLASS I, DIVISION 2 HAZARDOUS LOCATIONS"

Notes:



The nonincendive field wiring circuit concept allows interconnection of nonincendive field wiring apparatus and associated nonincendive field wiring apparatus using any of the wiring methods permitted for unclassified locations when certain parametric conditions are met.

Capacity: $C_a \geq C_i + C_{Cable}$

Inductivity: $L_a \geq L_i + L_{Cable}$

The maximum cable length has to be determined as follows:

(a) max. Cable Length $< (L_a - L_i) / L_{Cable}$ and (b) max. Cable Length $< (C_a - C_i) / C_{Cable}$

The lower value of (a) and (b) is to apply.

Cable_L : inductance per unit length of used cable.

Cable_C : capacitance per unit length of used cable.

Other C-parameters and L-parameters are according to ANSI / ISA 12.12.01 2012 section 7.

Where cable capacitance and inductance values per foot are not known, the following values shall be used:

C_{Cable} 60 pF/foot, L_{Cable} 0.2 µH/foot

Nonincendive field wiring circuits must be wired in accordance with the National Electrical Code (NEC), NFPA 70, article 501.

Nonincendive Field Wiring Parameters:

The Relay Contacts are dependent upon the following Entity parameters:	V_{max}	I_{max}	C_i	L_i
	30 V	90 mA	2.5 nF	1 µH



WARNING – EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR HAZARDOUS LOCATIONS OR EXPLOSIVE ATMOSPHERES.

WARNING – EXPLOSION HAZARD – DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.

DO NOT OPEN WHEN ENERGIZED.

The equipment must be installed in a tool-locked enclosure

Control Drawing for Industrial Ethernet
ConneXium Switches and ConneXium Transceiver Family
 According to ANSI / ISA 12.12.01-2012



Rev.: 0 Date: 2012-07-13 Document No.: 000163806DNR

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Power, input and output (I/O) wiring must be in accordance with Class I, Division 2 wiring methods [Article 501-4(b) of the National Electrical Code, NFPA 70] and in accordance with the authority having jurisdiction. Peripheral equipment must be suitable for the location it is used in.