Installation drawing (US)

NON-HAZARDOUS LOCATION

Class I, Division 2 – Installation drawing (US)
Class I, Zone 2 – Installation drawing (US)

! WARNING – EXPLOSION HAZARD – DO NOT OPERATE SWITCHES OR CONNECT OR DISCONNECT MODULES AND WIRING WHEN THE CIRCUIT IS ENERGIZED UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS.

1. In Class I, Division 2 installations, the BL20 – Modular I/O Bus-Terminal Systems shall be mounted within a tool-secured enclosure installed in accordance with the enclosure, mounting, spacing, and segregation requirements of the ultimate application which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code ANSI/NFPA 70 Article 500.

1. In Class I, Zone 2 installations, the BL20 – Modular I/O Bus-Terminal Systems shall be mounted within a tool-secured enclosure which meets the requirements of ISA 60079-0 and ISA 60079-15 and is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the National Electrical Code ANSI/NFPA 70 Article 505. Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. Where installed in dry indoor locations, the enclosure shall, at a minimum, meet the requirements of IP4X.

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2. The UL connector supplies all field devices up to 30V d.c. and 10A d.c.. To supply more modules additional Power feeding modules BL20-PF-24VDC-D resp. Bus refreshing modules BL20-BR-24VDC-D may be necessary.

3. The Usys connector feeds an internal supply circuit of the gateway and that provides “5V” module bus supply up to 1.5A d.c for gateway and modules. To supply more modules additional Bus refreshing modules BL20-BR-24VDC-D may be necessary. The rated current consumption of the module bus shows a table in BL20 catalogue.

2. 4. Primary power and secondary wiring external to the enclosure shall be in accordance with Class I, Division 2 or Class I, Zone 2 wiring practices per the National Electrical Code ANSI/NFPA 70, Article 500 or Article 505 as appropriate.

5. Terminal blocks shall be installed on an EN 50022 NS35 rail with each group completed by an end plate (Type BL20-ABPL, Ident-no. 6827123) and sandwiched between two end brackets (Type BL20-WEW-35/2-SW, Ident-no. 6827124).