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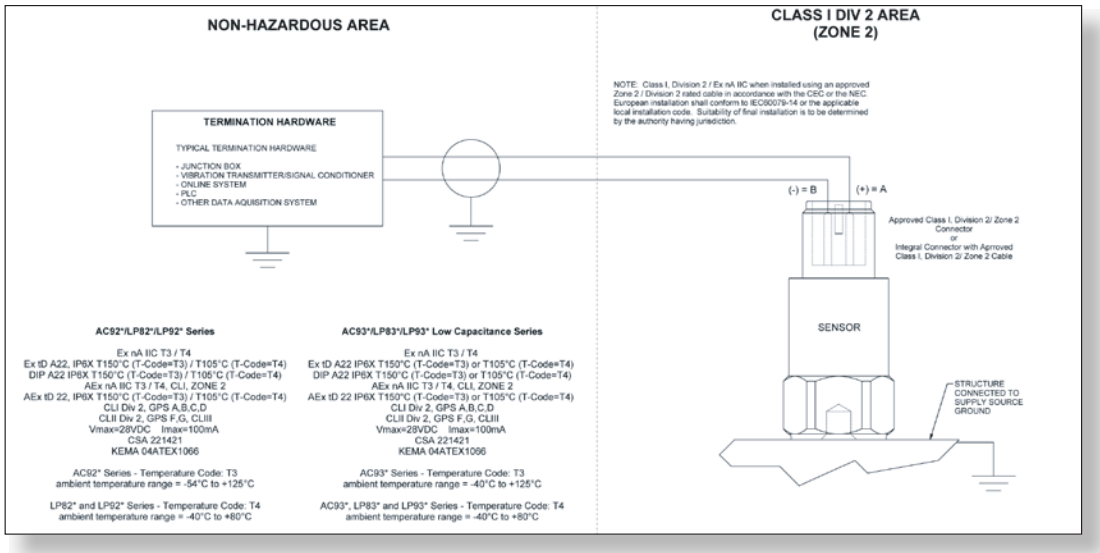
For LP822, LP922 Series

Class I, Division 2/Zone 2 Control Drawing



Overview & Requirements

An area in which the fire or explosion hazard exists infrequently and for short periods, is the designation given to a Class I, Division 2/ Zone 2 location. One suitable protection technique for a sensor in a Class I, Division 2/Zone 2 location is "Non-arcing/Non-sparking" for use without a barrier.

The following are a few guidelines to be used when installing CTC sensors in a Class I Division 2 / Zone 2 location:

- *AC92X, LP82X & LP92X sensors must utilize approved Class I Division 2/Zone 2 cable (such as CB190).*
- *AC92X, LP82X & LP92X sensors must utilize approved Class I Division 2/Zone 2 connectors (such as the D2Q).*
- *Approved connector must be mechanically locked or safety wired on the sensor end of the cable.*
- *Cable conductors must be wired directly to the termination point.*
- *Cable shield to be grounded at termination hardware.*
- *Sensor must be stud mounted.*
- *Suitability of final installation is to be determined by the authority having local jurisdiction.*

Required Accessories

D2Q
Class I, Division 2/Zone 2, 2 Socket MIL connector with backshell and safety tie-off points

CB922-1A
1 Inch NPT Adapter with 2 Socket MIL Connector and 24 Inches (.61 Meters) of Class I, Division 2 Rated Cable with Flying Leads

CB190 **Class I, Division 2/Zone 2, twisted, shielded pair, blue thermoplastic elastomer (TPE) jacketed, 2 conductor cable**

CB206 **Class I, Division 2/Zone 2, twisted, shielded pair, red Teflon® with Stainless Steel Armor Cover, 2 conductor cable**

Cable Assemblies: **CB190-D2Q-XXX-Z*** *Class I, Division 2/Zone 2, TPE jacketed cable, 2 socket MIL connector with backshell* *** XXX = cable length**

Regulatory Approvals & Requirements

Regulatory Approvals

US & Canada: *Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Class III*
Temperature Code T4; ambient temperature range -40°C to +80°C
Canada: Ex nA IIC T4; DIP A22 IP6X T105°C (T-Code = T4)
USA: AEx nA IIC T4; Class I, Zone 2; AEx tD 22, IP6X T105°C (T-Code =T4)

ATEX: *II 3 G/D*
Ex nA IIC T3/T4 – Ex tD A22 IP6X T150°C/T105°C
Temperature Code T4; ambient temperature range -40°C to +80°C

Requirements

- *Energy limiting barrier not required with Class I, Division 2/Zone 2 sensors*
- *Must be used in combination with Class I, Division 2/Zone 2 approved cable (such as CB190) and connector (such as D2Q). Please refer to "Class I, Division 2/Zone 2 Series Control Drawing" (above); in accordance with CEC or the NEC*
- *Case of sensor must be grounded. Please refer to "Class I, Division 2/Zone 2 Series Control Drawing" (above)*
- *Suitability of final installation is to be determined by the authority having local jurisdiction*