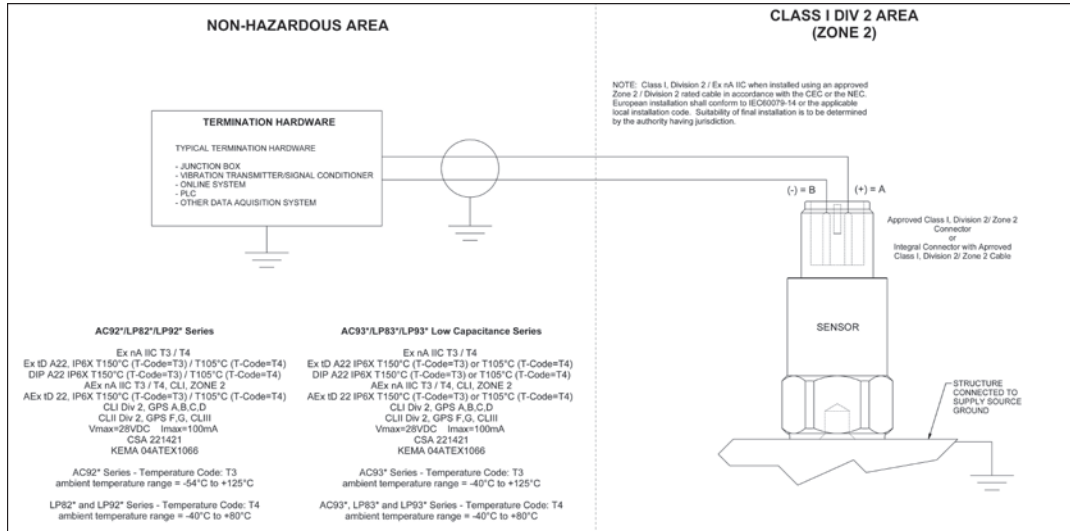


Low Capacitance Class I, Division 2/Zone 2 Control Drawing & Overview

For LP832, LP932 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:

- AC93X, LP83X & LP93X sensors must utilize approved Class I Division 2/Zone 2 cable (such as CB190).
- AC93X, LP83X & LP93X 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 ID 22, IP6X T105°C (T-Code = T4)

ATEX:



Ex nA IIC T3/T4 – Ex ID 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