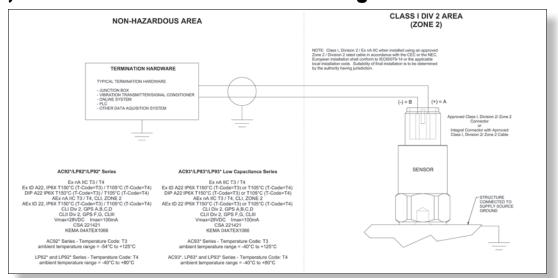
## Low Capacitance Class I, Division 2/Zone 2

**Control Drawing & Overview** 

#### For AC93X 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 <u>must be mechanically locked or safety wired</u> 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.

### **Accessories**



### **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 T3; ambient temperature range -40°C to +125°C
Temperature Code T4; ambient temperature range -40°C to +80°C
Canada: Ex nA IIC T3/T4; DIP A22 IP6X T150°C (T-Code =T3) or T105°C (T-Code =T4)
USA: AEx nA IIC T3/T4, Class I, Zone 2; AEx tD 22, IP6X T150°C (T-Code =T3) or T105°C (T-Code =T4)

ATEX:



Ex nA IIC T3/T4 – Ex tD A22 IP6X T150°C/T105°C
Temperature Code T3; ambient temperature range -40°C to +125°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

