

Delta-3N Kft. 7030 Paks, Jedlik Á. u. 2

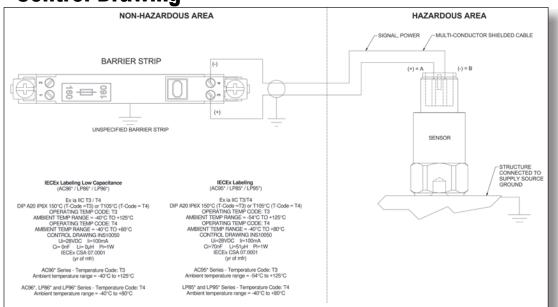
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IECE×

Control Drawing & Overview

For AC95X Series

IECEx* Control Drawing



Overview & Requirements

A barrier is required for the installation of IS sensors. The barrier passes signals in either direction as required but limits the voltage
and current that can reach the hazardous area under fault conditions. The barrier is put in series and is installed in a safe area
(see Typical Connection Diagram).

Proper IS Barrier must be used with this sensor to ensure compliance with entity parameters

- IS111 and IS211 barriers are compatible with AC95x series sensors
- Please contact a CTC Representative if you require assistance in specifying the correct barrier for CTC sensors
- Approved cabling (maximum 200 ft./60 m) of CB102, CB103, CB193, CB111, or CB206 must be used to bring the signal from the sensor to the Zener diode barrier or galvanic isolator, which is the energy-limiting interface. The standard cable, for integral cables is CB103 polyurethane jacketed, twisted, shielded pair cable
- Sensors must be grounded to a grounded structure by stud mounting the sensor directly to the machine surface, ensuring metal (of the sensor) to metal (of the machine surface) contact
- IECEx is an international certificate for electrical equipment used in explosive atmospheres (Ex equipment) intended to facilitate global trade in electrical equipment for use in hazardous locations.
 - At present knowledge, the following countries accept the IECEx certifications and may be subject to change without notice: Australia, Brazil, Canada, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, India, Italy, Japan, Korea, Malaysia, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovenia, South Africa, Sweden, Switzerland, Turkey, United Kingdom, and the USA.

Entity Parameters

All CTC Sensors have the identical entity parameters for their IS approved sensors. This information is used to specify the barrier required for the installation of the IS sensors.

Model	Description	Vmax	Ci	lmax	Li	Pi	Vmax = Maximum Voltage
AC95X Series	Accelerometer	28 V	70 nF	100 mA	51 uH	1 W	Ci = Total Capacitance of Circuit Allowable
LP852 Series	Loop Powered 4-20 mA output sensor, velocity	28 V	70 nF	100 mA	51 uH	1 W	Imax = Maximum Allowable Current
LP952 Series	Loop Powered 4-20 mA	28 V	70 nF	100 mA	51 uH	1 W	Li = Total Inductance of Circuit Allowable
	output sensor, acceleration						Pi = Total Power of Circuit Allowable

Regulatory Approvals

Regulatory Approvals

International:

Ex ia IIC T3/T4; DIP A20 IP6X T150°C (T-Code =T3) or T105°C (T-Code = T4) Temperature Code T3; ambient temperature range -40°C to +125°C Temperature Code T4; ambient temperature range -40°C to +80°C

*International Electrotechnical Commission in Explosive Atmospheres

