

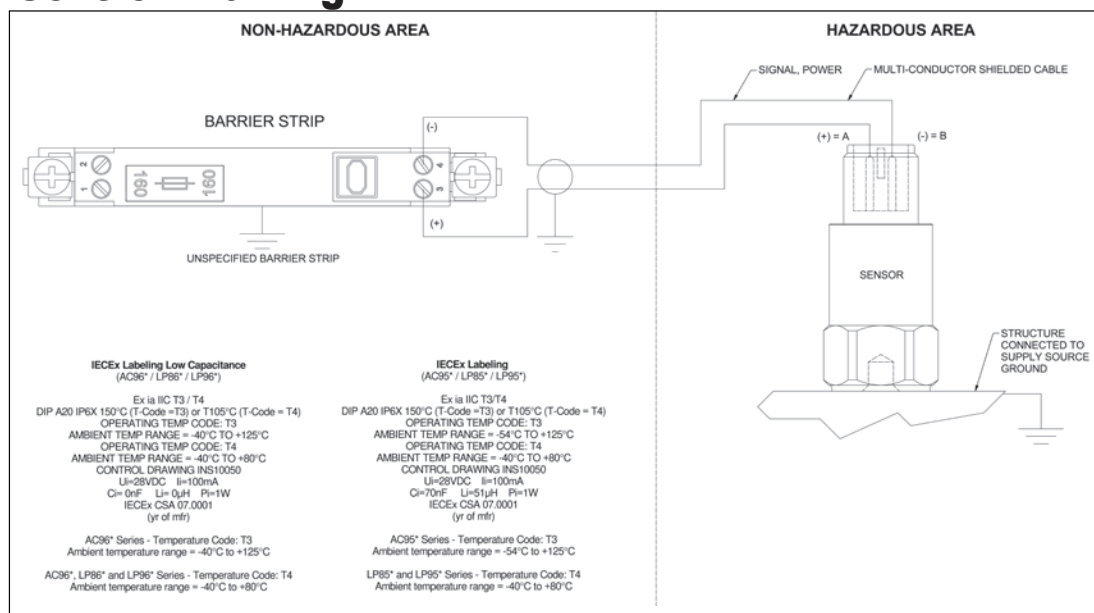


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IECEX Series
Control Drawing & Overview

For LP852, LP952 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 LP852/LP952 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, CB111, CB193 or CB206 must be used to bring the signal from the sensor to the zenor 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	I _{max}	Li	Pi
AC95X Series	Accelerometer	28 V	70 nF	100 mA	51 µH	1 W
LP852 Series	Loop Powered 4-20 mA output sensor, velocity	28 V	70 nF	100 mA	51 µH	1 W
LP952 Series	Loop Powered 4-20 mA output sensor, acceleration	28 V	70 nF	100 mA	51 µH	1 W

Vmax = Maximum Voltage
 Ci = Total Capacitance of Circuit Allowable
 I_{max} = Maximum Allowable Current
 Li = Total Inductance of Circuit Allowable
 Pi = Total Power of Circuit Allowable

Regulatory Approvals

Regulatory Approvals	International:	Ex ia IIC T4; DIP A20 IP6X T105°C (T-Code = T4) Temperature Code T4; ambient temperature range -40°C to +80°C
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Lifetime Warranty on Materials & Workmanship

SECTION 6 - PROTECTIVE LINE