



WRPR7.E249019

Enclosed Switches for Use in Hazardous Locations Certified for Canada

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See General Information for Enclosed Switches for Use in Hazardous Locations Certified for Canada

ELECTRO-SENSORS INC
6111 BLUE CIRCLE DR
MINNETONKA, MN 55343 USA

E249019

Class I, Groups C and D; Class II, Groups E, F and G.

Class I, Groups D; Class II, Groups E, F and G.

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TEST RECORD NO. 1

SAMPLES:

An investigation was conducted for the model SG1000B for use in Class I, Groups C and D Hazardous Locations USL and CNL with -40 to 60 °C ambient temperature range. The model SG1000A was submitted by the manufacturer for examination and testing.

GENERAL:

Test results relate only to the items tested.

Only the following tests were considered necessary.

The following tests were conducted.

EXPLOSION TEST
HYDROSTATIC PRESSURE TEST
TEMPERATURE TEST
DIELECTRIC WITHSTAND TEST

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in:

UL 508, Industrial Control Equipment, 17th Ed.

UL 1203, Explosion-Proof and Dust Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations, 3rd Ed.

CSA No. 14-95, Industrial Control Equipment

CSA 22.2 No. 30-M 1986, Explosion-Proof Enclosures for Use in Class I Hazardous Locations

DESCRIPTION

PRODUCT COVERED:

USL, CNL Speed Switch, Model Nos. SG1000B for use in Class I, Groups C and D;
Class II, Groups E, F, and G Hazardous Locations.

GENERAL:

The Model No. SG1000B is a complete monitoring system which provides independent feedback of a slide gate or valve position to an external device such as a display or PLC. The device is permanently connected to a power supply source. The Class II, Group E, F, and G construction is identical to the Class I, Groups C and D construction.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE)

The letters USL indicates investigation to the following standards:

UL 508, Industrial Control Equipment, 17th Ed.;

*UL 1203, Explosion-Proof and Dust Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations, 4th.

The letters CNL indicates investigation to the following standards:

CSA No. 14-95; Industrial Control Equipment;

CSA 22.2 No. 30-M 1986, Explosion-Proof Enclosures for Use in Class I Hazardous Locations;

ELECTRICAL RATINGS:

24 VDC Input, 4-20 mA output

ENVIRONMENTAL RATINGS:

The devices have been evaluated for use in a -40°C to 65°C ambient temperature range.