



Certificate of Compliance

Certificate Number: LR 99480-14

Revision: LR 99480-26

Date Issued: January 15, 1998

Issued To: R. Stahl Schaltgeräte GmbH
Bergstraße 2
Postfach 12 63
D-74653 Künzelsau
Germany

The products listed below are eligible to bear the CSA Mark.

Issued By: Scott Friel, EIT
Edmonton, Alberta, Canada

Signature

CLASS

3218 01 - INDUSTRIAL CONTROL EQUIPMENT - Custom Built For Hazardous Locations

PRODUCTS

Ex ed, IIC, T6, IP 65
Class II, Division 1 and 2, Groups EFG;
Class III; CSA Enclosure Type 3, 4, 4x;

- Model 8060/1 Position Switch rated at 500 V max, 10 Amps max, 50/60 Hz; 125 Vdc 10 Amps max, 250 Vdc, 0.2 Amps max. Ambient Temperature -20 °C to 50 °C.
- Model 8070/1 Position Switch rated at 500 V max, 10 Amps max, 50/60 Hz; 125 Vdc 10 Amps max, 250 Vdc, 0.2 Amps max. Ambient Temperature -20 °C to 50 °C.

NOTE

- (1) The above equipment may also bear the optional marking shown below.
- (2) The Ambient Temperature is -20 °C to 70 °C if the Current is limited to 6 Amperes maximum.



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APPLICABLE REQUIREMENTS

The following standards were used in the evaluation of the products covered under this Certificate:

Technical Information Letter TIL E-24 - Clarification of Marking Requirements for Electrical Equipment Certified to the requirements of IEC 79 Series Standards, C22.2 Series Standards, or both.

CSA Standard CAN/CSA	E79-0 -	Electrical apparatus for explosive gas atmospheres. General requirements.
	E79-1 -	Electrical apparatus for explosive gas atmospheres. Construction and verification test of flameproof enclosures.
	E79-7 -	Electrical apparatus for explosive gas atmospheres. Increased safety.
	E1241 -	Electrical apparatus for use in the presence of combustible dust.

MARKINGS

Each apparatus will bear a nameplate permanently secured to the outside of the enclosure, visible after installation, containing the following information:

- (a) Submitter's name, trademark, or the CSA file number (adjacent the CSA Mark).
- (b) Catalogue or Model designation, a Serial number and/or date code, traceable to the month and year (at least) of manufacture
- (c) Complete electrical rating (amps, hertz, and volts).
- (d) Complete hazardous location designation, including Temperature Code and CSA Enclosure designation. These markings may include:

Ex ed IIC, T6; IP65

Class II, Division 1 and 2, Groups EFG; Class III.

and optionally the following,

Class I, Div 2, Groups ABCD; T6;

Class I, Zone 1, Groups IIC; T6;

Class I, Zone 1, Ex ed IIC T6 IP65;

- (e) The CSA Mark.
- (f) Cautions, warnings and additional markings as may be required (French markings are optional except in the Province of Quebec);
 - (1) Where repair is possible, the warning:
"WARNING- EXPLOSION HAZARD- SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.";
or
"WARNING- EXPLOSION HAZARD- SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, ZONE 1";
 - (2) General caution:
"WARNING- EXPLOSION HAZARD- DO NOT DISCONNECT WHILE CIRCUIT IS



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LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS."; or equivalent.

Required Method of Marking

The marking shall be permanent, such as embossed, moulded, edged or stamping to the material of the enclosure/component, or accepted pressure sensitive adhesive type label or metal nameplate.

FACTORY TESTS

Dielectric:

The equipment at the conclusion of manufacture, prior to shipment, shall withstand for one minute without breakdown, the application of the following ac potentials:

- (1) 1000 Vac plus twice the rated voltage between low voltage circuits and non-current carrying parts.
- (2) 1000 Vac plus twice the rated voltage between low voltage circuits and other low voltage or extra-low voltage circuits if such circuits leave or enter the enclosure.
- (3) 500 Vac between extra-low voltage circuits and non current carrying parts if such circuits leave or enter the enclosure.

Notes:

- 1) As an alternative, potentials of 20 percent higher may be applied for one second.
- 2) The required dielectric strength test may be made by applying a dc potential, providing it is 1.414 times the ac test potential.
- 3) Capacitors in the extra-low voltage circuits may be disconnected during the dielectric test.
- 4) The routine Static Test is not required, under the IEC 79-7 standard, for components with less than 10 cm³, or components that have been tested for certification at a static pressure of four (4) times the reference pressure.

Warning

The factory tests specified may present a hazard of injury to personnel and/or property, and should be performed by persons knowledgeable of such hazards, and under conditions designed to minimize the possibility of injury.



Supplement to Certificate of Compliance


Certificate Number: LR 99480-14

Product Certification History

Revision	Date	Description
LR 99480-14	August 26, 1997	Certificate Issued for 8060 and 8070 Position switch.
LR 99480-26	January 15, 1998	Corrections to the -15 File.

The products listed, including the latest revision described above, are eligible to be marked in accordance with the referenced Certificate.

Signature


Scott Friel, EIT
Edmonton, Alberta Canada