



Certificate of Compliance

Certificate Number: LR 99480-18

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 06 - Industrial Control Equipment - Miscellaneous Apparatus - For Hazardous Locations

PRODUCTS

Ex e II, IP 56/54. Suitable ambients from -50 °C to 40 °C.

Breathable Gland type 8162

Ex e II, IP 66. Suitable ambients from -50 °C to 40 °C.

Class II, Division 1 and 2, Groups EFG

Class III

Cable Gland type 8161

Stopping Plug 8290

Switch Actuator 8602

Switch Actuator 8800

Windows Bezels 8603

Conduit Hub 90065AAAB

Window Flap 8611



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Ex de IIC, IP54; Suitable ambients from -50 °C to 40 °C.

Conductor Bushing 8174, up to 660-1000Volts
Bushings type 8171, rated at 380V, 500V, 660V, or 1000V

NOTE

- (1) Numeric suffixes are added to the model numbers, denoting specific information pertaining to the models.
- (2) Proper installation must be followed to maintain Ingress Protection.

APPLICABLE REQUIREMENTS

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 de IIC, IP66, T6; (or as appropriate to each apparatus)

Class II, Division 1 and 2, Groups EFG

Class III

or optionally the following,

Class I, Div 2, Groups ABCD, T6;

Class I, Zone 1, Groups II, T6;

Class I, Zone 1, Ex e II, T6, IP54;

- (e) The CSA Mark.



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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

The 8171 and 8174 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

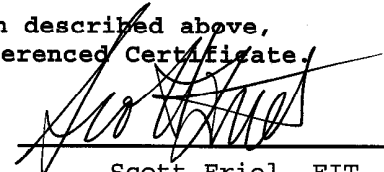
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Product Certification History

Revision	Date	Description
-18	October 9, 1997	Original Certification of the 8161, 8162, 8290, 8602, 8603, 8800, 8611, 8162, 8171, 8174 Stahl Accessories for Hazardous Locations.
-26	January 15, 1998	Corrections to the -18 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