

Descriptive and Test Report

Montreal ■ Toronto ■ Edmonton ■ Vancouver ■ Tokyo ■ Hong Kong

REPORT NO: LR 111 522-1

Edition 1:

October 27, 1999; Application No LR 111522-1, LCIE job No 451 704 - Eastern Region

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CSA PRODUCT CLASS

Class 3218-02 - INDUSTRIAL EQUIPMENT - Auxiliary Devices For Hazardous Locations
Class 3218-82 - INDUSTRIAL EQUIPMENT - Auxiliary Devices For Hazardous Locations - Certified to US
Standards

SUBJECT

CLASS I, Div 2, Groups A, B, C and D GUARDMASTER SWITCHES

PART A: Lifeline 2 switches rated 500 V/1 A, 250 V/2 A, 100 V/5 A-AC - 250 V/0,5 A, 125 V/1 A,

24 V/2 A-DC

PART B: Lifeline 4 switches rated 500 V/1 A, 250 V/2 A, 100 V/5 A-AC - 250 V/0,5 A, 125 V/1 A,

24 V/2 A-DC

PART C: Rotacam switches HS2, P85 rated 500 V/1 A, 250 V/2 A, 100 V/5 A-AC - 250 V/0,5 A, 24 V/2 A-

DC

PART D: Centurion switches rated 500 V/1 A, 250 V/2 A, 100 V/5 A-AC - 250 V/0,5 A, 24 V/2 A-DC

PART E: Senator switches CX 14/24/34, CX 11/21/31, CX 12/22/32, CX 11/21/31, CM 12/22/32, CM

14/24/34, 240 V/3 A-AC, 250 V/0,27 A-DC,

PART F: Telescopic switches CX 15 rated 240 V/3 A-AC, 250 V/0.27 A-DC

Note: In case of absence of provision for NPT conduit (PG or metric threads) this devices are certified as

component for use in other equipment where the suitability of the combination is subject to acceptance

by CSA/UL or the local inspection authority.

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APPLICABLE REQUIREMENTS

The product, as described in this report complies with:

- CSA standard C 22-2 No 14-95 Industrial Control equipment
- CSA standard C 22-2 No 213 M 1987 Non Incendive Electrical Equipment for use in class I, Division 2 Hazardous Locations
- UL 508 1996 Industrial Control Equipment
- UL 1604 Electrical equipment for use in class I division 2 Hazardous (classified) Locations

MARKINGS

The CSA/NRTL/C Mark, Submittor's Name, Model No, Serial No or Date Code, electrical rating and hazardous locations designation «class I, div 2, groups A, B, C and D», appear on a CSA/UL Accepted adhesive type label.

ALTERATIONS

Markings as above.

FACTORY TESTS

Not applicable due to the certification of the internal electrical element (see the following paragraph).

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DESCRIPTION

The parts A, B, C, D, E, and F consist in fact of different enclosures in which are fitted one or several BARTEC miniature micro-switches 07-1521 or 07-2521 already certified CSA LR 85 562-2 for class I div 2, Groups A, B, C and D.

Contact AC rating code A 600: mx contact, rating 600 V-AC, 10 A, 7200 VA (make), 720 VA (break) and contact DC rating P 300: mx contact rating 300 V-AC, 5 A, 138 VA (make/break).

Max ambient: 90 °C

These switch cases have threaded conduit entries in either 1/2" NPT, PG or metric threads:

- Part A: 1 M20 or PG 13.5 or 1/2 NPT
- Part B: 3 M20 or PG 13.5
- Part C: 1 M20 or PG 11 or 1/2" NPT
- Part D: 1 M20 or PG 11
- Part E: 1 M20 (CM), 3 M20 (CX)
- Part F : 3 M20

The internal grounding is obtained through a screw Ø 4mm, marked

Case Material: Die cast alloy

TESTS

Although the internal electrical element was already certified, a dielectric strength test, 1500 V, 50 Hz, 1 min, was carried out, without breakdown, on representative samples, Lifeline, Centurion and Rotacam.