

Certificate of Compliance

Certificate Number: LR 43865-8

Revision: LR 43865-10

Date Issued: April 20, 1995

Issued To: OTTO CONTROLS
DIV OF OTTO ENGINEERING INC
2 E MAIN ST
CARPENTERSVILLE, IL 60110
USA

*The products listed below are eligible to bear the CSA Mark.
NOTE: The "NRTL/C" indicator may appear adjacent to the CSA Mark.*

Issued By: M. Gryschuk, C.E.T.
Toronto, ON Canada

Signature

CLASS 6241 10 - SWITCHES - Snap - Special Use

CLASS 6241 90 - SWITCHES - Snap - Special Use

PRODUCTS

"NRTL/C" Special use switches, Series P3, P1, P8, rated 5A, 125V ac; 10.1A, 48V dc; 10.1A, 125V ac res and Series P7 rated 5A, 125V ac, 30V dc.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 55-M1986-Special Use Switches
UL Std No. 1054-Special-Use Switches

Descriptive and Test Report

REPORT NO: LR 43865-8

Edition 1: September 23, 1994; Application No LR 43865-8 - Rexdale
Issued by M.W. Gryschuk, C.E.T.

Edition 2: January 27, 1995; Application No LR 43865-9 - Rexdale
Issued by T. Hamden

Pages Replaced: Report Re-Issued
Figs Added: 10 and 11
Photo Added: 1

Edition 3: April 20, 1995; Application No LR 43865-10 - Rexdale
Issued by M. Gryschuk, C.E.T.

Pages Replaced: Report Re-Issued
Figs Added: 12 to 15

Certificate of Compliance has been issued.

Contents: Pages - 1 to 4
Figures - 1 to 15
Photo - 1

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MARKINGS

The submitter's name, tradename, or registered trademark, the CSA Mark and complete electrical rating are moulded or permanently ink-stamped on each switch. The catalogue number is either moulded or permanently ink-stamped on each switch, or appears on each containing carton, the letters "NRTL/C" may appear adjacent to the CSA Mark.

ALTERATIONS

See "Markings" above.

FACTORY TESTS

Not applicable.

DESCRIPTION

Conditions of Acceptability:

1. Suffixes may be added to denote mechanical variations.
2. Supplied only to manufacturers, as components, for the assembly of Certified electrical equipment.

Application LR 43865-10: Covers additional switches, Series P3 (Part C) and P1 (Part D).

Application LR 43865-9: Covers additional switches Series P7 (Part B).

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PART A - Series P8

General: The following description represents all Series P8 switches, see Figs 1 to 9.

- 1.Button: Moulded (PA612) Zytel 151 by E.I. Dupont, UL 94V-2 flame class (0.86mm), UL RTI mech w/o impact of 65C (0.86mm), UL CTI of 600V plus. For shape and dimensions see Figs 1 and 2.
- 2.Base: Moulded (DAP) Type RX3-1-525F-# by Rogers, UL 94V-0 flame class (1.57mm), UL RTI mech w/o impact of 180C (1.57mm), UL CTI of 600V plus. For shape and dimensions see Figs 1 and 3.
- 3.Spring Guide: Copper alloy, silver plated. For shape and dimensions see Figs 4 and 5.
- 4.Blade: Copper alloy, gold plated or flashed. For shape and dimensions see Figs 4 and 6.
- 5.Extension Spring: Stainless steel. For shape and dimensions see Figs 4 and 7.
- 6.Stationary Contact: Silver. For shape and dimensions see Fig 8.
- 7.N.O. Terminal: Copper alloy, silver plated, optional gold flashing. For shape and dimensions see Figs 1 and 8.
- 8.N.C. Dummy Terminal: Copper alloy, plating optional. See Figs 1 and 9.

PART B - Series P7

General: Series P7 is the same as Series P8, described in Part A, except for being a smaller "Mini" version. See Figs 10, 11 and Photo 1.

PART C - Series P3

General: Series P3 is the same as Series P8, described in Part A, except for having a longer aluminum switch housing, see Figs 12 and 13.

PART D - Series P1

General: Series P1 is the same as Series P3, described in Part C, except Series P1 has military Part Nos and Series P3 has commercial Part Nos, see Figs 14 and 15.

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TESTS

Application LR 43865-8: In view of the satisfactory overload, endurance, temperature and dielectric strength tests performed on Series P8 switches by a NRTL Lab, which are on file at CSA Rexdale, no tests were considered necessary.

Application LR 43865-9: Test results are as follows:

Device - Special use switch Cat No - P7

	No of	V	A	Hz	PF	Results					
						Sample					
	Ops					1	2	3	4	5	6
1. Overload (Non. Ind)	50	30	7.5	DC	1	OK	OK	OK	OK	OK	OK
2. Endurance (Non. Ind)	6000	30	5	DC	1	OK	OK	OK	OK	OK	OK
3. Temp 23C amb		LOW	5	60		29	28	26	27	28	27
						31	27	27	26	27	29
4. Dielectric		1000		60		OK	OK	OK	OK	OK	OK
5. Overload (Non. Ind)	50	125	5	60	70/	OK	OK	OK	OK	OK	OK
					80						
6. Endurance (Non. Ind)	6000	125	5	DC	70/	OK	OK	OK	OK	OK	OK
					80						
7. Temp 23C amb		LOW	5	60		43	46	32	33	30	32
						40	46	37	37	33	33
8. Dielectric		1000		60		OK	OK	OK	OK	OK	OK

Application LR 43865-10: In view of the similarities with new switches Series P3, P1 and previously Certified switches Series P8, in this report, no further tests were considered necessary.