



Certificate of Compliance

Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

Issued to: **Flowserve Corporation**
Flow Control Division
1350 North Mountain Springs Pky
Springville, UT 84663-0903
USA
Attention: Jeff Olson

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



Issued by: Ron Wachowicz, C.E.T.

Authorized by: Patricia Pasemko, Operations
Manager

PRODUCTS

CLASS 3218 02 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Auxiliary
Devices-For Hazardous Locations

PART A

Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X and IP67

- Limit switches (Explosion-Proof), Ultra Switch Series XCL/XMLxxxxxxxxx and Series DNxxxxxx Model
numbers - refer to "Model Designations" below:

MODEL DESIGNATIONS



Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

Model Designations - Ultraswitch XCL/XML (Enclosure is explosion-proof, Aluminum as described in Report)

A N - M - I - N - S - C - A - W - M - S - C

I II III IV V VI VII VIII IX X XI XII

I - Prefix for Manufacturer marking:

Blank - Automax

A - Accord

I - Inline Industries

V - Valtek-(White paint Valtek Stickers)

T - Texa Electronic Resources

P - PMV

L - Limitorque

II - Prefix for Shaft:

Blank - Standard shaft (stainless steel)

N - Namur shaft

E - Epoxy Coating

A - Namur w/Epoxy Coating

III - Model:

XCL - UltraSwitch, Aluminum Housing, Explosion-proof (2) ¾" NPT Conduit

XML - UltraSwitch, Aluminum Housing, Explosion-proof (2) M25 Conduit

IV - Cover Type (any alpha-numeric character to designate position indicator type):

Examples:

1 - Flat top cover, no indicator

2 - Indicator cover



Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

- 3 - Four window position indicator
- 4 - 90 deg 3-way perpendicular position indicator
- 5 - 90 deg 3-way parallel position indicator
- 6 - 180 deg 3-way perpendicular position indicator
- 7 - 180 deg 3-way parallel position indicator

V - Number of Switch Elements:

- 0 - 0 switch elements
- 1 - 1 switch elements
- 2 - 2 switch elements
- 4 - 4 switch elements

VI - Switches (for more details refer to the switch rating located in the body of the Descriptive Report):

- 00 - No Switches
- M1 - Micro Switch, SPDT, 125Vac/250Vac, 15A, 0.5Hp, 125Vdc/250Vdc, 0.5A/0.25A
- MA - Micro Switch, SPDT w/Cams for 3-Position Control
- MD - Micro Switch, DPDT w/Cams for DA-3-Position w/Indicator
- MS - Micro Switch, DPDT w/Cams for SR-3-Position w/Indicator
- MC - Micro Switch, SPDT, 250° F
- MG - Micro Switch, Gold Contacts
- M3 - Cherry, DPDT, 15A
- MB - Licon, DPDT, Mechanical
- P4 - Aleph, SPST, Proximity
- P5 - Hamlin, SPDT, Proximity
- PE - Sabre, SPDT, Proximity, 1 A



CSA INTERNATIONAL

Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

PP - "Phazer", SPDT, Proximity, 3Aac/2Adc (K90-4571)

PL - "Phazer II w/LED", SPDT, Proximity

PT - "Phazer II BRS", SPST, Proximity

PX - "Phazer II BRS w/LED", SPST, Proximity

N8 - P&F, NJ2-V3-N,

NQ - P&F, NJ4-12GK-N

NR - P&F, NJ4-12GM40-E1

NS - P&F, NJ4-12M40-E2

NT - P&F, NJ4-12GK40-E2

NP - P&F, SJ3.5N

NJ - Efector, Proximity, 2 mm sensing

NU - "GO" Proximity 4A SPDT "142519"

SN - (2) 3-way Pneumatic valves

FZ - AS-i Control card with two (2), Type 4, Aleph, SPST, Proximity

VII - Certifications:

18 - UL/CSA CL. 1, Div. 1, Grp. CD, CL. 2 Div. 1,2, Grp. EFG; ATEX II 2 G, EEx d IIB T4-T6

M1 - UL/CSA CL. 1, Div. 1, Grp. CD, CL. 2 Div. 1,2, Grp. EFG; ATEX II 2 G, EEx d IIB T4-T6 Metal Nameplate.

M2 - UL/CSA CL. 1, Div.1, Grp. CD, CL. 2 Div. 2, Grp. ABCD; ATEX II 2 G, EEx d IIB T4-T6

VIII - Output:

0 - None

T - Transmitter 4 - 20 mA

A - Potentiometer (0-1k ohm)



Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

B - Potentiometer (0-5k ohm)

C - Potentiometer (0-10k ohm)

IX - Wiring Options:

0 - None

1 - Brad Harrison Connectors – 3 pins

2 - Brad Harrison Connectors – 5 pins

3 - Brad Harrison Connectors – 7 pins

H - Heavy Duty Terminal Block

P - Sealed/Potted Leads

X - Minimum Open Terminals:

2 - 2

4 - 4

6 - 6

XI - Special Options:

One or two digit alpha-numeric characters represent potentiometer gears, o-rings, for the indicator cover and / or lubricant

XII- Coating Options:

One digit alpha-numeric character represents paint color for Polyester / Epoxy paint

Model Designations - Ultraswitch DN

DN - 1 - 1 - A - A - P - 3

I II III IV V VI VII

I - DN - Ultra Switch

II - Housing Type:

F - Glass Reinforced Zytel



Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

(For use only in Hazardous (Classified) Locations; Refer to Class I, Div. 2 Groups A, B, C and D, with sealed switch designations as noted)

A - Explosion Proof Aluminum

(For use in only in Hazardous (Classified) Locations; as noted)

III - Indicator Option:

1 - Flat Top Cover, no indicator.

2 - Pharos, Snap-On Indicator (Type A or F housing)

3 - Ultradome, Bolt-On Indicator (Type F housing only)

4 - Pharos, Snap-On Indicator (Type A or F housing), 135 Deg. Indication or for Thru-divert applications.

5 - Pharos, Snap-On Indicator (Type A or F housing), 155 Deg. Indication or for Thru-divert applications.

IV - Language Option:

E - English

V - Switch Option:

P - (2) "Phazer II", SPDT, High Amp Reed Proximity

T - (2) "Phazer II BRS", SPDT, Low/High Amp Reed Proximity

VI - Terminal and Gland Option:

1 - Standard Terminal for North America

3 - 12-Position Terminal for North America

VII - Suffix (Mounting Options):

STD - Standard 1/4 inch shafts with no mounting kit.

N - NAMUR shaft flats with no mounting kit.

N28A - EL-O-MATIC E12-E350 and Hytork XL45-XL680 with #10-24 Bolting



Certificate: 1192741 (LR 83687)

Master Contract: 179783

Project: 1750511

Date Issued: 2006/02/09

N38A - 30 mm pinion; 80 mm bolt spacing.

N28L - EL-O-MATIC E12-E350 and Hytork XL45-XL680 with M5-.8 Bolting

N313A - EL-O-MATIC P500-P4000 and Hytork XL1125-XL4580 with #10- 24 Bolting

N313L - EL-O-MATIC P500-P4000 and Hytork XL1125-XL4580 with M5-.8Bolting

PART B

Class I, Division 2, Groups A, B, C and D:

Limit Switches, Ultra Switch Series XCL/XMLxxxxxxxxxx and Series DNxxxxxx; Temp. Code T3.

-These switches are identical to those described in Part A, except for Hazardous Locations classification.

-All options are as described above except for Option Suffix V

The following switches are used in Class I, Div. 2, Groups A, B, C & D:

-Switch designation Nos. "P4", "P5", or switch designation Nos. "PP" or "PT" switches are sealed devices.

APPLICABLE REQUIREMENTS

C22.2 No. 0-M91 – Basic Requirements

C22.2 No. 0.4-04 – Bonding and Grounding of Electrical Equipment

C22.2 No. 14-M1985 - Industrial Control Equipment

C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

C22.2 No. 94-M91 - Special Purpose Enclosures

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Div. 2 Hazardous Locations

C22.2 No. 60529-05 - Degrees of protection provided by enclosures (IP Code)