



1 EC TYPE-EXAMINATION CERTIFICATE

- 2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 3 Certificate Number: Sira 06ATEX3392X
- 4 Equipment: Range of Rotary Switch On/Off Valve Indicators
- 5 Applicant: Palmstierna International AB (part of the Flowserve Group)
- 6 Address: Korta Gatan 9 SE-171 54 Solna Sweden
- 7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Issue:

6

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0: 2004 EN 60079-1: 2004 EN 61241-0:2006 EN 61241-1:2004

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

- 10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.
- 12 The marking of the equipment shall include the following:

έx, II 2 GD

Ex d IIB T5 Ex tD A21 IP66/67 (Ta –20°C to +55°C)

C. E

C Ellaby Deputy Certification Manager

Sira Certification Service

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Project Number 70025479

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13 DESCRIPTION OF EQUIPMENT

The UltraSwitch[™] Limit Switches provide local and remote position indication for automated valves. They are fitted with a range of pre-wired, switch limit options that suit a variety of electrical applications, refer to product nomenclature, and are constructed from the following major parts:

- Main housing base
- Main housing cover (Either flat or Ultradome)
- Bronze bearing inserts and limit switch shaft
- Associated O-ring seals

The UltraSwitch[™] Limit Switches rely on the following aspects for explosion protection and have no welded joints:

- Threaded flamepaths
- Cylindrical flamepaths
- O-ring seals
- Overall mechanical strength

All user connections are made at a numbered terminal strip and both external bonding and internal grounding locations are provided for installation. Certain UltraSwitch[™] Limit Switches feature the option to have a visual indicator with "red=closed" and "green=open" for intuitive local position determination.

Switch Element Code Electrical Ratings

| Electrical Ratings (Model DCA- series options denoted with []) | Switch Element Type |
|---|---------------------|
| 15.1 A, 1/2 hp, 125/250, VAC; 0.5 A, 125 VDC; 0.25 A, 250 VDC; 5 A, 120 VAC | M1 and MA |
| 15.1 A, 1/2 hp, 125/250, VAC; 0.5 A, 125 VDC; 0.25 A, 250 VDC; 5 A, 120 VAC | MC |
| 10 A, 1⁄2 hp, 125 VAC | MD and MS |
| 1 A, 125 VAC; 50 mA, 24 VDC | MG |
| 15 A, 125/250 VAC; 3/5 hp, 125 VAC 1/2 hp, 250 VAC | M3 |
| 0.25 A, 200 VDC; 0.5 A, 100 VDC; 1 A, 50 VDC; 0.35 A, 140 VAC,50 W | P4 |
| 0.25 A, 120 VAC, 60 Hz; 28 VDC, 3 W | P5 |
| 10 A, 1⁄2 hp, 125 VAC | MB |
| 24 VDC, 2 A; 120 VAC, 1 A | PE |
| 3 A, 120 VAC; 2 A, 24 VDC | PP and [P] |
| 3 A, 120 VAC; 0.5 A, 24 VDC | PT and [T] |
| 5-25 VDC | N8, NP, NQ |
| 10-60 VDC, 200 mA | NR, NS, NT |
| 31 VDC, 26 mA | FZ |
| 5-60 VDC, 100 mA | N9, R1 and [M] |
| 10-60 VDC, 100 mA | P1 |
| 24 VDC, 0.12A | FN |

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"Ultraswitch" Model Types

| Sta | ndard Model Ref. | А | Ν | XC L | U | 2 | M1 | - | 1 4 |] - | 0 | 0 | 2 | 0 | 0 |
|-----|--|--|---|---------|-------|---------|---------|-------|--------|-------|--------|----------|-----|---|---|
| Nor | nenclature Example | А | В | C | D | E | F | | G | | Н | 1 | J | К | L |
| А | Brand sticker | Sin | Single Alphanumeric Character | | | | | | | | | | | | |
| В | Shaft Type | | ~ | | | | racter | | | | | | | | |
| C | Housing | | | | | | | 3⁄4 N | JPT (| North | n Ame | erican S | td) | | |
| Ũ | liedenig | | | | | | y with | | | | | | (a) | | |
| D | Position Indicator | | | | | | racter | | | | | ~/ | | | |
| Е | Qty of Switch Elements | | U | | | | racter | | | | | | | | |
| F | Switch Element Type | | | DT me | | | | | | | | | | | |
| | | | | DT M | | | | | | | | | | | |
| | | | | | | | ns for | 3 pc | ositio | n cor | trol | | | | |
| | | | | | | | Licon | | | | | | | | |
| | | MC | – SP | DT me | echan | ical w | ith te | rmir | nal bl | ock r | ated f | or 250 | °F | | |
| | | MD | – DP | DT m | echar | nical v | vith Ca | ams | for [| DA 3 | positi | on cont | rol | | |
| | | MG | – SP | DT m | echar | ical - | gold | plate | ed | | • | | | | |
| | | MG – SPDT mechanical – gold plated MS – DPDT mechanical with Cams for SR 3 position control | | | | | | | | | | | | | |
| | | N8 – Proximity P+F NJ2-V3-N (DOW = S) | | | | | | | | | | | | | |
| | | N9 – Proximity P+F NBB3-V3-Z4 | | | | | | | | | | | | | |
| | | NP – Proximity P+F SJ3-5N (Namur) | | | | | | | | | | | | | |
| | | NQ – Proximity P+F NJ4-12GK-N (Namur) | | | | | | | | | | | | | |
| | | NR – Proximity P+F NJ4-12GM40-E1 | | | | | | | | | | | | | |
| | | NS – Proximity P+F NJ4-12GM40-E2 | | | | | | | | | | | | | |
| | | NT – Proximity P+F NJ4-12GK40-E2 | | | | | | | | | | | | | |
| | | R1 - Proximity P + F NBB3 - V3 - Z4 - 3G - 3D (DOW = M) | | | | | | | | | | | | | |
| | | P1 – Proximity P+F NCB2-12GM40-Z0 | | | | | | | | | | | | | |
| | | P4 – SPST proximity ALEPH PS-6132 | | | | | | | | | | | | | |
| | | | | | | | nlin 59 | 13 | 5-030 | 0 | | | | | |
| | | | | DT pro | | | | | | | | | | | |
| | | | | | | | zer (D | | | | | | | | |
| | | PT - SPDT proximity Phaser BRS (DOW = T, B) | | | | | | | | | | | | | |
| | | FN – Device net controller card. (2) type P4 switches | | | | | | | | | | | | | |
| | | FZ – As-I card with (2) type 4-(P4) switches | | | | | | | | | | | | | |
| G | Certification Type | | | neral F | | | | | | | | | | | |
| | | 18 – CSA and ATEX approved | | | | | | | | | | | | | |
| | | 19 – ATEX approved | | | | | | | | | | | | | |
| | | 25 – IECEx approved | | | | | | | | | | | | | |
| | | M3 – ATEX and IECEx approved | | | | | | | | | | | | | |
| H | Analogue options | | Single Alphanumeric Character Single Alpha-Numeric Character | | | | | | | | | | | | |
| 1 | Wiring Options | | <u>u</u> | | | | | r | | | | | | | |
| J | J Minimum Open Terminals Single Alphanumeric Character | | | | | | | | | | | | | | |

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| К | Accessories | 0 – No special options (denotes standard "Buna"(Nitrile) O-rings temp range of –15°F to +250°F V – "Viton" (Flourocarbon) O-rings - temp range of -15°F to +400°F All other Single Alphanumeric Characters do not affect Certification |
|---|--|---|
| L | Coating Options (Not on FLP surfaces) | Single Alpha-Numeric Character |

Dow Customer Specific

| Standard Model Ref. | D | Ν | Α | 3 | Ε | В | 1 | Ν |
|----------------------|---|---|---|---|---|---|---|---|
| Nomenclature Example | Α | В | С | D | Е | F | G | Н |

| Α | Brand | D | Dow | |
|---|--------------------|-----|--|--|
| В | Rating Selection | Ν | North American Standards, Special Marker Strip 3/4" NPT. | |
| | | С | European Standards, Special Marker Strip 1/2"" NPT. | |
| С | Housing Selection | А | Explosion Proof, Aluminum | |
| D | Indicator Section | 1 | Flat Top Cover, no indicator | |
| | | 3 | Ultradome, Black/Yellow | |
| | | 5 | Ultradome for 155 Deg. Diverter Valves | |
| | | 6 | Ultradome for 135 Deg. Diverter Valves | |
| Е | Language Selection | 0 | No indications | |
| | | D | Dutch | |
| | | G | German | |
| | | Р | Portuguese | |
| | | S | Spanish | |
| | | 1 | Italian | |
| F | Switch Selection | В | 2 x Phazer III BRS | |
| | | К | 2 x Phazer III | |
| | | Т | 2 x Phazer II BRS | |
| | | Р | 2 x Phazer II | |
| | | М | 2 x P+F NBB3-V3-Z4-3G-3D | |
| | | S | 2 x NJ2-V3-N | |
| G | Area Selection | 1 | Standard | |
| | | 2 | 12-Position Terminal for North America | |
| Н | Mounting Selection | N | NAMUR Configuration, NAMUR Shaft | |
| | | STD | Non NAMUR Configuration, Standard Shaft | |

Variation 1 - This variation introduced the following changes:

- i. The product switch element table of types was updated to include types P and T references together with the introduction of the new type N9 and type M switch elements.
- ii. The product nomenclature tables were updated and include alternative customer specific model "DCA- series" reference numbers.

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Variation 2 - This variation introduced the following change:

i. The option to permit different fixing holes as shown on drawing XM0407.

Variation 3 - This variation introduced the following changes:

- i. The product nomenclature tables were updated to include an alternative customer specific model, "DCA3EW1N28L".
- ii. The company name and address, previously Flowserve Corporation, 1350 North Mountain Springs Parkway, PO Box 2200, Springville, Utah 84663 – 9003, USA, was changed to Flowserve US Inc., 1978 Foreman Drive, Cookeville, TN 38501, USA.

Variation 4 - This variation introduced the following change:

i. The company name and address, previously Flowserve US Inc., 1978 Foreman Drive, Cookeville, TN 38501, USA was changed to Flowserve Corporation, Korta Gatan 9 SE-171 54 Solna Sweden.

Variation 5 - This variation introduced the following change:

- i. The recognition of minor modifications both administrative and technical; these amendments do not affect the aspects of the product that are relevant to explosion safety.
- ii. The addition of an O-ring groove between the cover and body of the product, this addition resulted in a decrease to the length of a flanged flamepath.
- iii. The introduction of a stainless steel shaft for use in the listed range of rotary switches and valve indicators; this shaft is detailed on drawing XC1414C that replaces the drawings detailed in the Annexe.
- iv. Due to a previous change to the Company name and address, drawing number XO1219 is a duplication of XO1329 therefore it has been removed.

Variation 6 - This variation introduced the following change:

- i. The IP rating was changed from IP65 to IP66/IP67 following acceptance of test data for IPX6 and IPX7 in accordance with EN 60529
- ii. The current rating for switch designation suffix "PE" was changed from 2 A to 1 A.
- iii. Switch options R1, P1 and FN were introduced and switch options NU, PX and PL were removed.
- iv. The model order code was updated.
- v. The description was amended to reflect the changes, where appropriate.
- vi. Nameplate drawing X01285 was introduced.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report No. | Comment |
|-------|------------------|------------|---------------------------------------|
| 0 | 10 December 2007 | R51A14448A | The release of the prime certificate. |
| 1 | 25 March 2008 | R51L17918A | The introduction of Variation 1. |

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| Issue | Date | Report No. | Comment |
|-------|------------------|------------|--|
| 2 | 20 July 2009 | R51A20611A | This Issue covers the following changes: All previously issued certification was rationalised into a single certificate, Issue 2, Issues 0 to 2 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format. The introduction of Variation 2. |
| 3 | 9 March 2010 | R21889A_00 | The introduction of Variation 3. |
| 4 | 07 March 2011 | R24204A/00 | The introduction of Variation 4. |
| 5 | 15 November 2012 | R28655A/00 | The introduction of Variation 5. |
| 6 | 03 June 2015 | R70025479A | The introduction of Variation 6. |

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 The maximum constructional gap (i_c) is less than that required by Table 1 of EN 60079-1:2004 as detailed below:

| Flamepath | Maximum Gap (mm) | Comment |
|---------------------------------|------------------|---------------------------|
| Cover and base | 0.058 | Flanged joint |
| Operating rod and cover bushing | 0.088 | Cylinderical spigot joint |
| Cover and bushing | 0.00 | Interference fit |
| Operating rod and base bushing | 0.088 | Cylinderical spigot joint |
| Base and bushing | 0.00 | Interference fit |

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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Certificate Annexe

| Certificate Number: | Sira 06ATEX3392X |
|---------------------|---|
| Equipment: | Range of Rotary Switch On/Off Valve Indicators |
| Applicant: | Palmstierna International AB |



Issue 0

| Drawing No. | Sheets | Rev | Date (Sira Stamp) | Description |
|-------------|--------|-----|-------------------|--|
| X01329* | 1 of 1 | 0 | 03 Dec 07 | Name Plate |
| X01219* | 1 of 1 | 0 | 03 Dec 07 | Name Plate – Assembly in Sweden |
| L02812 | 1 of 1 | 5 | 30 Nov 07 | Layout, Switch, XCL, Flamepath certification |
| X01142 | 1 of 1 | 1 | 30 Nov 07 | Casting, Cover, Switch, XCL Ultradome |
| XM0401 | 1 of 2 | 0 | 30 Nov 07 | Cover, Switch, XCL, Ultradome machining |
| XM0401 | 2 of 2 | 0 | 30 Nov 07 | Cover, Switch, XCL, Ultradome machining |
| X01143 | 1 of 2 | 1 | 30 Nov 07 | Casting, Base, Switch, XCL |
| X01143 | 2 of 2 | 1 | 30 Nov 07 | Casting, Base, Switch, XCL |
| XM0398 | 1 of 2 | 0 | 30 Nov 07 | Base, switch, XCL 3/4" Conduit |
| XM0398 | 2 of 2 | 0 | 30 Nov 07 | Base, switch, XCL 3/4" Conduit |
| XM0399 | 1 of 2 | Α | 30 Nov 07 | Base, switch, XCL M25 |
| XM0399 | 2 of 2 | Α | 30 Nov 07 | Base, switch, XCL M25 |
| X01141 | 1 of 1 | 1 | 30 Nov 07 | Casting, Cover, Switch, XCL Flattop |
| XM0400 | 1 of 2 | 0 | 30 Nov 07 | Cover, Switch, XCL, Flattop machining |
| XM0400 | 2 of 2 | 0 | 30 Nov 07 | Cover, Switch, XCL, Flattop machining |
| 103682-B | 1 of 1 | D | 30 Nov 07 | Limit Switch shaft W/O position indicator - Flat top |
| 105761-A | 1 of 1 | В | 30 Nov 07 | Limit Switch shaft W/O position indicator (NAMUR) - Dome top |
| 105762-B | 1 of 1 | Α | 30 Nov 07 | Limit Switch shaft W/O position indicator(NAMUR) - Flat top |
| XM0339 | 1 of 1 | 0 | 30 Nov 07 | Limit Switch shaft - Dome top(NAMUR) Flat top |
| XM0340 | 1 of 1 | 0 | 30 Nov 07 | Limit Switch shaft W/O position indicator (NAMUR) - Dome top |

* These drawings were amended by Sira and the client on 12 December 2007.

Issue 1

| Drawing No. | Sheets | Rev | Date (Sira Stamp) | Description |
|-------------|--------|-----|-------------------|---------------------------------|
| X01329 | 1 to 2 | А | 14 Mar 08 | Name Plate |
| X01219 | 1 to 2 | D | 14 Mar 08 | Name Plate – Assembly in Sweden |

Issue 2

| Drawing No. | Sheets | Rev | Date (Sira Stamp) | Description |
|-------------|--------|-----|-------------------|-------------------------------------|
| XM0407 | 1 to 2 | 0 | 20 Jul 09 | Base switch XML cover thread M8 x 1 |

Issue 3

| Drawing No. | Sheets | Rev | Date (Sira Stamp) | Description |
|-------------|--------|-----|-------------------|---|
| X01329 | 1 of 2 | В | 10 Mar 10 | Nameplate, Switch XCL, ATEX Rating Cookeville Manufacture |
| X01195 | 1 of 1 | Н | 10 Mar 10 | Nameplate, Switch XCL, Dual Rating |

Issue 4

| Drawing No. | Sheets | Rev. | Date (Sira stamp) | Title |
|-------------|--------|------|-------------------|-----------------------------------|
| X01329 | 1 to 2 | С | 09 Feb 11 | Nameplate Switch XCL, ATEX Rating |

Issue 5

| Drawing No. | Sheets | Rev. | Date(Sira stamp) | Title |
|-------------|--------|------|------------------|---|
| XC1414C | 1 of 1 | - | 08 Oct 12 | PMV Switchbox, Ultraswitch D & X - Series |
| X01141 | 1 of 1 | 2 | 08 Oct 12 | Casting, Cover, Switch, XCL, Flat Top |
| X01142 | 1 of 1 | 2 | 08 Oct 12 | Casting, Cover, Switch, XCL, Ultradome |

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Sira Certification Service

Certificate Annexe

| Certificate Number: | Sira 06ATEX3392X |
|---------------------|---|
| Equipment: | Range of Rotary Switch On/Off Valve Indicators |
| | |



Applicant:

Palmstierna International AB

| Drawing No. | Sheets | Rev. | Date(Sira stamp) | Title |
|-------------|--------|------|------------------|--|
| X01143 | 1 to 2 | 2 | 08 Oct 12 | Casting, Base, Switch, XCL |
| X01195 | 1 of 1 | J | 08 Oct 12 | Nameplate, Switch, XCL, XML, DN Dual Rating, Blank Model, Rating, Mylar, cCSAus, ATEX Solna Manufacture |
| X01329 | 1 to 2 | D | 25 Oct 12 | Nameplate, Switch, XCL, ATEX Rating, Blank Model, Rating, Mylar, Solna Manufacture |
| XM0398 | 1 to 2 | 2 | 08 Oct 12 | Base, Switch, XCL, Cover Threads, M8 X 1.25, Conduit, ³ / ₄ " NPT |
| XM0399 | 1 to 2 | 2 | 08 Oct 12 | Base, Switch, XML, Cover Thrds, M8 X 1.25, Conduit, M25 X 1.5 |
| XM0400 | 1 to 2 | 1 | 08 Oct 12 | Cover, Switch, XCL, Flat Top, M8 X 1.25 Thrds |
| XM0401 | 1 to 2 | 2 | 08 Oct 12 | Cover, Switch, XCL, Ultradome, M8 X 1.25 Thrds |
| LO2812 | 1 of 1 | 6 | 09 Oct 12 | Layout, Switch, XCL, Flamepath Certification |

The following drawings are removed from the certificate:

| Drawing No. | Sheets | Rev. | Date(Sira stamp) | Title |
|-------------|--------|------|------------------|---|
| 103682-B | 1 of 1 | D | 30 Nov 07 | Limit Switch Shaft W/O Position Indicator |
| 105761-A | 1 of 1 | В | 30 Nov 07 | Limit Switch Shaft Shafat W/O Pos. Ind. (Namur) |
| 105762-B | 1 of 1 | А | 30 Nov 07 | Limit Switch Shaft W/O Position Indicator (Namur) |
| XMO339 | 1 of 1 | 0 | 30 Nov 07 | Limit Switch Shaft |
| XMO340 | 1 of 1 | 0 | 30 Nov 07 | Limit Switch Shaft W/O Pos. Ind. (Namur) |
| XO1219 | 1 to 2 | D | 14 Mar 08 | Nameplate, Switch, XCL, ATEX Rating, Blank Model, Rating, |
| | | | | Mylar, Solna Manufacture |

Issue 6

| Drawing No. | Sheets | Rev. | Date (Sira stamp) | Title |
|-------------------------------------|--------|------|-------------------|---|
| X01195 | 1 of 1 | L | 17 Apr 15 | Nameplate, switch, XCL, XML, DN, dual rating, blank model, rating, mylar, cCSAus, ATEX, solna manufacture |
| X01285 | 1 of 1 | E | 17 Apr 15 | Nameplate, switch, XCL, blank model, rating, metal, ATEX, solna manufacture |
| X01329 | 1 of 1 | E | 17 Apr 15 | Nameplate, switch, XCL, ATEX rating, blank model, rating, mylar, solna manufacture |
| XCL/XML ATEX/IECEx Model code | 1 of 1 | 0 | 03 Jun 15 | XCL/XML model code related to ATEX/IECEx Ex d certification |

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