



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 07ATEX1273X** Issue: **16**

4 Equipment: **Type DXP and Type DXS Switchboxes**

5 Applicant: **Topworx Inc.**

6 Address: 3300 Fern Valley Road, Louisville, Kentucky 40213, USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 IEC 60079-0:2018 incl. A/C:2020 EN IEC 60079-1:2014 incl. AC:2018 EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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:



II 2GD

**Marking for Group IIC/IIB+H<sub>2</sub>**

Ex db IIC T6 Gb or Ex db IIB+H<sub>2</sub> T6 Gb

Ta = -60°C to +60°C

Ex db IIC T5 Gb or Ex db IIB+H<sub>2</sub> T5 Gb

Ta = -60°C to +75°C

Ex db IIC T4 Gb or Ex db IIB+H<sub>2</sub> T4 Gb

Ta = -60°C to +110°C

Ex db IIC T3 Gb or Ex db IIB+H<sub>2</sub> T3 Gb

Ta = -60°C to +175°C

**Marking for Group IIIC**

Ex tb IIIC T85°C Db

Ta = -50°C to +60°C

Ex tb IIIC T100°C Db

Ta = -50°C to +75°C

Ex tb IIIC T135°C Db

Ta = -50°C to +110°C



Signed: M Halliwell

Title: Director of Operations

Project Number 80170724

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## SCHEDULE

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#### 13 DESCRIPTION OF EQUIPMENT

The Type DXP switchbox comprises a rectangular base and cover manufactured in aluminium. The base and cover has a boss with a bronze sleeve bearing, through which passes the switch shaft. Cams with magnets are attached to the shaft to operate sensors within the enclosure. The enclosure is provided with either a flat flange joint or a serrated joint for gas group IIB + H<sub>2</sub> or group IIC applications respectively. The cover securing bolts are Grade A2-70 stainless steel.

The rectangular base and cover can be manufactured from stainless steel to form a Type DXS Switchbox; and the sleeve bearing is not provided.

The enclosure may contain a combination of switches, a fieldbus module, pilots and terminal strips up to the maximum thermal dissipation of 10 W. The pilots provide feedback to control a pneumatic valve attached to the side of the enclosure.

The switch box is rated up to 240 V, 15 A.

The enclosure fasteners are stainless steel M8x1.25 – 6H, reduced shank A2-70 grade fasteners.

When marked for dust, the enclosures have an IP66/IP67 rating.

**Variation 1** - This variation introduced the following changes:

- i. To permit the use within a combustible dust laden atmospheres in accordance with the requirements of IEC 60079-0:2007 and IEC 61241-1:2004.

**Variation 2** - This variation introduced the following changes:

- i. The recognition of minor drawing modifications; these amendments, which are fully described in the associated Sira report, are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
- ii. The external valve block pressure was increased, the special condition for safe use being modified accordingly.

**Variation 3** - This variation introduced the following changes:

- i. To permit the metal enclosures to be given an IP67/66 ingress protection rating. The marking in Section 12 was amended accordingly.
- ii. Following appropriate re-assessment, IEC 61241-1:2004 was replaced by EN 60079-31:2009.

**Variation 4** - This variation introduced the following changes:

- i. The introduction of an alternative internal arrangement which is designated the Type FF 2.0 Module.
- ii. Minor drawing modifications were recognised.

**Variation 5** - This variation introduced the following changes:

- i. The equipment was permitted to be used in an ambient temperature up to 175°C, the marking is amended accordingly and a Special condition for safe use was added to reflect the change.



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**Variation 6** - This variation introduced the following changes:

- i. Following appropriate assessment, EN 60079-0:2006 was replaced with EN 60079-0: 2012, the marking in Section 12 was amended accordingly.
- ii. The ambient temperature range has been extended to -60°C for category 2G only.
- iii. The requirement for routine overpressure testing has been removed for enclosures suitable for a -50°C ambient temperature limit, in addition, a routine overpressure testing requirement for enclosures suitable for -60°C was added.
- iv. The DXP can be fitted with the following switch types:

|                                  |                                 |
|----------------------------------|---------------------------------|
| SPDT - 250 V ac at 1.5 A         | NO Proximity - 250 V ac at 0.2A |
| SPDT - 250 V ac at 0.5 A         | NO Proximity - 60 V dc at 0.2 A |
| DPDTh - 110 V ac at 6 A          | NC Proximity - 8 V dc at 3 mA   |
| PNP Proximity - 30 V dc at 0.2 A |                                 |

**Variation 7** - This variation introduced the following change:

- i. The removal of routine overpressure testing on model variants with stainless steel housings was endorsed.
- ii. Clarification of the special fastener head, on drawing numbers ES-00238-1, was approved.
- iii. The recognition of minor drawing modifications; the leading edge of the bushing from 0.5 mm x 30° to 1.0 mm x 10° to aid assembly, these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.

**Variation 8** - This variation introduced the following change:

- i. The introduction of two additional manufacturing locations:

|  |  |
|--|--|
| Emerson Machinery Equipment (Shenzhen) Co. Ltd.    | Emerson Process Management Magyarország Kft. |
| Fisher Controls Division                           | Fisher Controls International LLC            |
| Bao Heng Technology Industry Park                  | H-8001 Székesfehérvéar                       |
| North Hong Long 2 <sup>nd</sup> Road               | Berenyi U                                    |
| District 68 Bao'an District Shenzhen 518101, China | 72-100, Hungary                              |

**Variation 9** - This variation introduced the following change:

- i. The introduction of an advanced HART protocol module variant, HART v7 Model ES-04900-1, to be used in various HART module assemblies.
- ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge; EN 60079-0:2012, EN 60079-1:2007 and EN 60079-31:2009 were replaced by EN 60079-0:2012/A11:2013, EN 60079-1:2014, and EN 60079-31:2014. The markings and specific conditions of use are updated according to recognise the latest standards.
- iii. Numerous drawing changes have been made.
  - a. Drawing updates to the following scheduled drawings:
    - i. ES-00238-1 revision 12 to 15;
    - ii. S-S01-0006 revision 2 to 4;
    - iii. S-S01-0008 revision 18 to 23;
    - iv. Drawing ES-01141-1 at revision 9 has been replaced rev 12 to include the HART v7 Module ES-04900-1, and updates to the other module assemblies it can be used in;

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- v. The following nameplate drawings have been updated to include revised markings that are required by the standards upgrade: CERT-ES-01148-1; CERT-ES-01149-1; CERT-ES-03278-1; CERT-ES-03279-1; and CERT-ES-03288-1.
- vi. The following nameplate drawings have become obsolete and removed from the list of scheduled drawings: CERT-ES-03440-1; CERT-ES-03442-1; CERT-ES-03443-1; and CERT-ES-03444-1.
- vii. Drawing S-S01-0007 rev 25 to rev 27 has been updated for various minor changes, detailed in the assessment report.
- viii. Drawing S-S01-0012 rev 22 to rev27 has been updated for various minor changes, detailed in the assessment report.

**Variation 10** - This variation introduced the following change:

- i. The change of manufacturing location;

|                                    |                         |
|------------------------------------|-------------------------|
| From:                              | To:                     |
| Emerson Process Management         | ASCO Numatics Sp.z o.o. |
| Magyarország Kft.                  | Kurczaki 132            |
| Fisher Controls International LLC, | 93 331 Lodz             |
| H-8001 Székesfehérvár,             | Poland                  |
| Berenyi U, 72-100,                 |                         |
| Hungary                            |                         |

**Variation 11** - This variation introduced the following change:

- i. The change to the name of the facility in Poland was recognised;

|                          |   |
|--------------------------|---|
| From:                    | To:   |
| ASCO Numatics Sp. z o.o. | Emerson Automation Fluid Control & Pneumatics Poland Sp. z o.o. |

**Variation 12** - This variation introduced the following change:

- i. Addition of an alternative hall effect sensor connected to HART v7, Model ES-04900-1 module certified under IECEx SIR 16.0107U and Sira 16ATEX2342U.

**Variation 13** - This variation introduced the following changes:

- i. Addition of an alternate construction of the external indicator.
- ii. Manufacturer address change for Shenzhen location

**Variation 14** - This variation introduced the following changes:

- i. After appropriate assessment, the listed standard for Issue 13 were updated to the latest issues. EN 60079-0:2012/A11:2013 was updated to IEC EN 60079-0:2018 incl. A/C:2020, EN 60079-1:2014 was updated to EN 60079-1:2014 incl. AC:2018, EN 60079-31:2014 remains unchanged.
- ii. References to factory locations were removed from the certificate, leaving the applicants name and address only.

**Variation 15** - This variation introduced the following changes:

- i. Revision to manufacturer drawings. These amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.

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- ii. Modification to stopping plugs PS-00177-1 to PS-00177-7. Introduction of new stopping plug, PS-00177-8.

**Variation 16** - This variation introduced the following change:

- i. Addition of new variant of aluminium enclosure for Gas Group "IIC" classification.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Reports and Certificate History

| Issue | Date             | Report number            | Comment  |
|-------|------------------|--------------------------|--|
| 0     | 10 April 2008    | R51A15997A               | The release of the prime certificate.  |
| 1     | 21 May 2009      | R51L18967A               | The introduction of Variation 1.   |
| 2     | 25 November 2011 | R25807A/00               | The introduction of Variation 2.   |
| 3     | 23 March 2012    | R25461A/00<br>R25661A/00 | The introduction of Variation 3 (report R25461A/00) and Variation 4 (report R25661A/00).   |
| 4     | 01 August 2012   | R25661B/00               | The introduction of Variation 5.   |
| 5     | 11 December 2012 | R21191A/00<br>R28146A/00 | The introduction of Variation 6.   |
| 6     | 02 December 2013 | R30951A/00               | The introduction of Variation 7.   |
| 7     | 07 May 2014      | R70005505A               | The introduction of Variation 8.   |
| 8     | 12 June 2018     | R70095234A               | This Issue covers the following changes: <ul style="list-style-type: none"><li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li><li>• The introduction of Variation 9.</li></ul> |
| 9     | 07 March 2019    | R70209081A               | The introduction of Variation 10.  |
| 10    | 15 October 2019  | 0449                     | Transfer of certificate Sira 07ATEX1273X from Sira Certification Service to CSA Group Netherlands B.V.   |
| 11    | 30 July 2020     | R80050077A               | The introduction of Variation 11.  |
| 12    | 15 February 2021 | R80054407A               | This Issue covers the following changes: <ul style="list-style-type: none"><li>• The introduction of Variation 12.</li><li>• The Applicant details for the Hungary location were deleted to retrospectively align with the change introduced at Variation 10.</li></ul>  |
| 13    | 04 October 2021  | R80082520A               | The introduction of Variation 13.  |

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| Issue | Date             | Report number | Comment                           |
|-------|------------------|---------------|-----------------------------------|
| 14    | 08 June 2022     | R80103684A    | The introduction of Variation 14. |
| 15    | 27 February 2023 | R80147059A    | The introduction of Variation 15. |
| 16    | 13 July 2023     | R80170723A    | The introduction of Variation 16. |

#### 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

- 15.1 The IIC enclosures are excluded from use in carbon disulphide atmospheres.
- 15.2 The air pressure to the valve block, when fitted, shall not exceed 10.0 bar.
- 15.3 For ambient temperatures above 110°C, the degrees of ingress protection IP66 and IP67 are not endorsed by Sira.
- 15.4 The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.
- 15.5 The hexagonal head cover screws are to be replaced only with stainless steel A2-70 or A4-80 screws to ISO 35061
- 15.6 Cover fasteners are to be tightened to a torque value of 10.85 Nm (8ft/lbs) minimum.
- 15.7 Only suitably certified cable entry devices or conduit shall be used for connections and unused openings shall be blanked off using a suitable ATEX certified plug.
- 15.8 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

#### 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 MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The manufacturer shall conduct a routine overpressure test on each unit to be marked with a -60°C ambient, unless manufacture from stainless steel, at the following pressures; for at least 10 s as required by clause 16.1 of EN 60079-1:2014. There shall be no permanent damage or deformation to the enclosure.

| Gas group IIC | Gas group IIB+H2 |
|---------------|------------------|
| 28 bar        | 19.1 bar         |

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# Certificate Annexe



**Certificate Number:** Sira 07ATEX1273X  
**Equipment:** Type DXP and Type DXS Switchboxes  
**Applicant:** Topworx Inc.

## Issue 0

| Drawing No.  | Sheets | Rev. | Date     | Description  |
|--------------|--------|------|----------|--|
| ES-01141-1   | 1 of 1 | 3    | 03.19.08 | General Assembly - DXP                             |
| S-AV1-0003   | 1 of 1 | 13   | 03.13.08 | General Assembly – DXS Valve                       |
| S-S01-0008   | 1 of 1 | 12   | 02.05.08 | Upper Casting -DXP                                 |
| S-S01-0007   | 1 of 1 | 21   | 03.14.08 | Lower Casting -DXP With Ports                      |
| S-S01-0012   | 1 of 1 | 17   | 03.14.08 | Lower Casting -DXP Without Ports                   |
| S-S01-SS08   | 1 of 1 | 5    | 02.05.08 | Upper Casting -DXS                                 |
| S-S01-SS07   | 1 of 1 | 11   | 03.14.08 | Lower Casting -DXS With Ports                      |
| S-S01-SS12   | 1 of 1 | 10   | 03.14.08 | Lower Casting -DXS Without Ports                   |
| ES-00746-1   | 1 of 1 | 2    | 11.07.07 | Serration Joint Details - Lower Casting            |
| ES-00747-1   | 1 of 1 | 2    | 11.07.07 | Serration Joint Details – Upper Casting            |
| ES-01068-1   | 1 of 1 | 1    | 03.25.08 | Serration Joint Match Details                      |
| ES-00157-1   | 1 of 1 | 3    | 06.13.07 | Switch Shaft Assembly                              |
| S-S01-0016   | 1 of 1 | 7    | 01.18.08 | Switch Shaft - Standard                            |
| S-S01-0017   | 1 of 1 | 7    | 01.18.08 | Switch Shaft - Universal                           |
| S-S01-0006   | 1 of 1 | 1    | 09.19.03 | Bushing  |
| S-S01-0013   | 1 of 1 | 5    | 12.10.07 | Sinter   |
| ES-00238-1   | 1 of 1 | 6    | 03.19.08 | Cover Bolt   |
| PS-00177-1   | 1 of 1 | 3    | 03.12.08 | Blanking Plug                                      |
| ES-00874-1   | 1 of 1 | 1    | 05.11.07 | EDS Cube Assembly                                  |
| S-A01-0001-M | 1 of 1 | 10   | 01.15.08 | Switch Assembly - SPDT                             |
| S-A01-0030   | 1 of 1 | 12   | 06.28.07 | Switch Assembly - DPDT                             |
| S-A01-0032   | 1 of 1 | 9    | 10.11.07 | Switch Assembly – L2                               |
| S-A01-0001-F | 1 of 1 | 8    | 01.16.08 | Switch Assembly – P & F                            |
| S-A01-0010   | 1 of 1 | 5    | 02.01.05 | Target Assembly                                    |
| ES-00973-1   | 1 of 1 | 3    | 01.31.08 | Nameplate  |
| ES-01149-1   | 1 of 1 | 1    | 12.11.07 | Nameplate Artwork – IIC                            |
| ES-01147-1   | 1 of 1 | 2    | 03.28.08 | Certification Label Details – IIC                  |
| ES-01148-1   | 1 of 1 | 2    | 03.26.08 | Nameplate Artwork – IIB + H <sub>2</sub>           |
| ES-01146-1   | 1 of 1 | 3    | 03.28.08 | Certification Label Details – IIB + H <sub>2</sub> |

## Issue 1

| Drawing    | Sheets | Rev. | Date (Sira stamp) | Description  |
|------------|--------|------|-------------------|--|
| ES-01141-1 | 1 of 1 | 4    | 14 May 09         | DXP/DXS IIC cert Drawing                           |
| ES-00973-1 | 1 of 1 | 6    | 14 May 09         | Nameplate  |
| ES-01146-1 | 1 of 1 | 6    | 14 May 09         | Certification Label Details – IIB + H <sub>2</sub> |
| ES-01147-1 | 1 of 1 | 4    | 14 May 09         | Certification Label Details - IIC                  |
| ES-01148-1 | 1 of 1 | 4    | 14 May 09         | Nameplate Artwork – IIB + H <sub>2</sub>           |
| ES-01149-1 | 1 of 1 | 2    | 14 May 09         | Nameplate Artwork – IIC                            |

## Issue 2

| Drawing    | Sheets | Rev. | Date (Sira stamp) | Title  |
|------------|--------|------|-------------------|--|
| ES-00746-1 | 1 of 1 | 3    | 29 Sep 11         | Serration Joint Casting - Lower Casting            |
| ES-00238-1 | 1 of 1 | 8    | 29 Sep 11         | Cover Bolt   |
| S-S01-0008 | 1 of 1 | 16   | 29 Sep 11         | Upper Casting - DXP                                |
| S-S01-SS07 | 1 of 1 | 14   | 29 Sep 11         | Lower Casting - DXS With Ports                     |
| ES-01146-1 | 1 of 1 | 11   | 29 Sep 11         | Certification Label Details - IIB + H <sub>2</sub> |
| ES-01147-1 | 1 of 1 | 8    | 29 Sep 11         | Certification Label Details - IIC                  |

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# Certificate Annexe



**Certificate Number:** Sira 07ATEX1273X  
**Equipment:** Type DXP and Type DXS Switchboxes  
**Applicant:** Topworx Inc.

| Drawing      | Sheets | Rev. | Date (Sira stamp) | Title                                    |
|--------------|--------|------|-------------------|--|
| S-AV1-0003   | 1 of 1 | 15   | 29 Sep 11         | General Assembly - DXS Valve             |
| S-A01-0001-M | 1 of 1 | 14   | 29 Sep 11         | Switch Assembly - SPDT                   |
| S-S01-SS08   | 1 of 1 | 6    | 29 Sep 11         | Upper Casting - DXS                      |
| S-S01-0016   | 1 of 1 | 9    | 29 Sep 11         | Switch Shaft - Standard                  |
| S-S01-0017   | 1 of 1 | 9    | 29 Sep 11         | Switch Shaft - Universal                 |
| S-S01-0012   | 1 of 1 | 20   | 29 Sep 11         | Lower Casting - DXP Without Ports        |
| S-S01-0007   | 1 of 1 | 23   | 29 Sep 11         | Lower Casting - DXP With Ports           |
| ES-01148-1   | 1 of 1 | 8    | 29 Sep 11         | Nameplate Artwork - IIB + H <sub>2</sub> |
| ES-01149-1   | 1 of 1 | 5    | 29 Sep 11         | Nameplate Artwork - IIC                  |
| ES-01141-1   | 1 of 1 | 6    | 29 Sep 11         | General Assembly - DXP                   |
| S-S01-0006   | 1 of 1 | 2    | 29 Sep 11         | Bushing                                  |
| S-A01-0030   | 1 of 1 | 17   | 29 Sep 11         | Switch Assembly - DPDT                   |
| S-A01-0032   | 1 of 1 | 12   | 29 Sep 11         | Switch Assembly – L2                     |
| S-A01-0001-F | 1 of 1 | 11   | 29 Sep 11         | Switch Assembly – P & F                  |
| ES-00747-1   | 1 of 1 | 4    | 29 Sep 11         | Serration Joint Details – Upper Casting  |
| ES-00973-1   | 1 of 1 | 7    | 04 Oct 11         | Nameplate                                |
| ES-00874-1   | 1 of 1 | 2    | 29 Sep 11         | EDS Cube Assembly                        |
| ES-00157-1   | 1 of 1 | 6    | 29 Sep 11         | Switch Shaft Assembly                    |
| S-S01-SS12   | 1 of 1 | 14   | 29 Sep 11         | Lower Casting – DXS Without Ports        |

## Issue 3

### (Report R25461A/00)

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Title  |
|-----------------|--------|------|-------------------|--|
| CERT-ES-01148-1 | 1 of 1 | 9    | 06 Dec 11         | Assembly, Nameplate DXP/DXS IIB+H <sub>2</sub> |
| CERT-ES-01149-1 | 1 of 1 | 6    | 06 Dec 11         | Assembly, Nameplate DXP/DXS IIC                |
| PS-00177-1      | 1 of 1 | 5    | 05 Dec 11         | Plug, Hole                                     |

### (Report R25661A/00)

| Drawing    | Sheets | Rev. | Date (Sira stamp) | Title                             |
|------------|--------|------|-------------------|-----------------------------------|
| SK-1256    | 1 of 1 | C    | 06 Jan 12         | General Assembly – FF2.0 Module   |
| ES-01141-1 | 1 of 1 | 7    | 06 Jan 12         | DXP/DXS IIC Certification Drawing |

## Issue 4

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Title   |
|-----------------|--------|------|-------------------|---|
| ES-01141-1      | 1 of 1 | 9    | 23 Jul 12         | DXP/DXS IIC Certification Drawing   |
| CERT-ES-01148-1 | 1 of 1 | 10   | 23 Jul 12         | Nameplate Artwork [IIB+H <sub>2</sub> ]                                       |
| CERT-ES-01149-1 | 1 of 1 | 7    | 23 Jul 12         | Nameplate Artwork [IIC]   |
| CERT-ES-03278-1 | 1 of 1 | 1    | 23 Jul 12         | Nameplate Artwork [IIB+H <sub>2</sub> /IIC T6/T5/T4-Silicone S7426-60 O-Ring] |
| CERT-ES-03279-1 | 1 of 1 | 1    | 23 Jul 12         | Nameplate Artwork [IIC/IIC T6/T5/T4-Silicone S7426-60 O-Ring]                 |
| CERT-ES-03288-1 | 1 of 1 | 1    | 23 Jul 12         | Nameplate Artwork [IIC/IIB+H <sub>2</sub> T3]                                 |

## Issue 5

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Title  |
|-----------------|--------|------|-------------------|--|
| CERT-ES-03278-1 | 1 of 1 | 2    | 10 Nov 12         | Artwork, Nameplate DXP/DXS IIB+H <sub>2</sub> T6/T5/T4 |
| CERT-ES-03279-1 | 1 of 1 | 2    | 10 Nov 12         | Artwork, Nameplate DXP IIC T6/T5/T4                    |
| CERT-ES-03288-1 | 1 of 1 | 2    | 10 Nov 12         | Artwork, Nameplate DXP/DXS IIB+H <sub>2</sub> /IIC T3  |

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# Certificate Annexe



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**Equipment:** Type DXP and Type DXS Switchboxes  
**Applicant:** Topworx Inc.

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Title  |
|-----------------|--------|------|-------------------|--|
| CERT-ES-01148-1 | 1 of 1 | 11   | 10 Nov 12         | Assembly, Nameplate & Artwork DXP/DXS IIB+H2     |
| CERT-ES-01149-1 | 1 of 1 | 8    | 10 Nov 12         | Assembly, Nameplate & Artwork DXP/DXS IIC        |
| S-S01-0007      | 1 of 1 | 25   | 06 Dec 12         | Lower Casting - DXP With Ports                   |
| S-S01-0012      | 1 of 1 | 22   | 06 Dec 12         | Lower Casting - DXP Without Ports                |
| S-S01-0008      | 1 of 1 | 18   | 06 Dec 12         | Upper Casting - DXP                              |
| CERT-ES-03440-1 | 1 of 1 | 1    | 06 Dec 12         | Nameplate Artwork – IIB+H2, -60°C                |
| CERT-ES-03442-1 | 1 of 1 | 1    | 06 Dec 12         | Nameplate Artwork – IIB+H2, -60°C to +75°C       |
| CERT-ES-03443-1 | 1 of 1 | 1    | 06 Dec 12         | Nameplate Artwork – IIC, -60°C to +75°C          |
| CERT-ES-03444-1 | 1 of 1 | 1    | 06 Dec 12         | Nameplate Artwork – IIB+H2/ IIC, -60°C to +175°C |
| ES-01506-1      | 1 of 1 | 3    | 06 Dec 12         | Enclosure specification                          |

## Issue 6

| Drawing    | Sheets | Rev. | Date (Sira stamp) | Title                             |
|------------|--------|------|-------------------|-----------------------------------|
| ES-00238-1 | 1 of 1 | 12   | 18 Nov 13         | Cover bolt                        |
| ES-00157-1 | 1 of 1 | 7    | 18 Nov 13         | Switch shaft assembly             |
| S-S01-0016 | 1 of 1 | 11   | 18 Nov 13         | Switch shaft - Standard           |
| S-S01-0017 | 1 of 1 | 11   | 18 Nov 13         | Switch shaft - Universal          |
| S-S01-SS07 | 1 of 1 | 15   | 18 Nov 13         | Lower Casting – DXP With Ports    |
| S-S01-SS12 | 1 of 1 | 15   | 18 Nov 13         | Lower Casting – DXS Without Ports |
| S-A01-0030 | 1 of 1 | 20   | 18 Nov 13         | Switch Assembly – DPDT            |

## Issue 7

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Description |
|-----------------|--------|------|-------------------|-------------|
| CERT-ES-01148-1 | 1 of 1 | 12   | 07 May 14         | Nameplate   |
| CERT-ES-01149-1 | 1 of 1 | 9    | 07 May 14         | Nameplate   |
| CERT-ES-03278-1 | 1 of 1 | 3    | 07 May 14         | Nameplate   |
| CERT-ES-03279-1 | 1 of 1 | 3    | 07 May 14         | Nameplate   |
| CERT-ES-03288-1 | 1 of 1 | 3    | 07 May 14         | Nameplate   |
| CERT-ES-03440-1 | 1 of 1 | 2    | 07 May 14         | Nameplate   |
| CERT-ES-03442-1 | 1 of 1 | 2    | 07 May 14         | Nameplate   |
| CERT-ES-03443-1 | 1 of 1 | 2    | 07 May 14         | Nameplate   |
| CERT-ES-03444-1 | 1 of 1 | 2    | 07 May 14         | Nameplate   |

## Issue 8

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Title                                    |
|-----------------|--------|------|-------------------|--|
| ES-00238-1      | 1 of 1 | 15   | 16 May 18         | Bolt, Housing DXP/S Enclosure            |
| S-S01-0006      | 1 of 1 | 4    | 16 May 18         | Bushing, Oil impregnated                 |
| S-S01-0008      | 1 of 1 | 23   | 16 May 18         | Casting, Upper DXP,                      |
| ES-01141-1      | 1 of 1 | 12   | 16 May 18         | DXP/DXS-Series Master Assembly,          |
| CERT-ES-01148-1 | 1 of 1 | 14   | 08 Jun 18         | Nameplate DXP/DXS IIB+H2                 |
| CERT-ES-01149-1 | 1 of 1 | 10   | 08 Jun 18         | Nameplate DXP/DXS IIC                    |
| CERT-ES-03278-1 | 1 of 1 | 5    | 08 Jun 18         | Nameplate DXP/S IIB+H2 T6/T5/T4 Silicone |
| CERT-ES-03279-1 | 1 of 1 | 5    | 08 Jun 18         | Nameplate DXP/S IIC T6/T5/T4 Silicone    |
| CERT-ES-03288-1 | 1 of 1 | 5    | 08 Jun 18         | Nameplate DXP/S IIB+H2/IIC T3 Silicone   |
| S-S01-0007      | 1 of 1 | 27   | 16 May 18         | Lower casting DXP with ports             |
| S-S01-0012      | 1 of 1 | 27   | 07 Jun 18         | Lower casting DXP without ports          |
| ES-04900-1*     | 1 of 1 | 4    | 15 May 17         | HART Module Assembly                     |

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# Certificate Annexe



**Certificate Number:** Sira 07ATEX1273X

**Equipment:** Type DXP and Type DXS Switchboxes

**Applicant:** Topworx Inc.

## Issue 9

| Drawing         | Sheets | Rev. | Date (Sira stamp) | Title               |
|-----------------|--------|------|-------------------|---------------------|
| CERT-ES-01148-1 | 1 OF 1 | 15   | 13 Feb 19         | NAMEPLATE           |
| CERT-ES-01149-1 | 1 OF 1 | 11   | 13 Feb 19         | ASSEMBLY, NAMEPLATE |
| CERT-ES-03288-1 | 1 OF 1 | 6    | 17 Jan 19         | NAMEPLATE, markings |
| CERT-ES-03278-1 | 1 OF 1 | 6    | 17 Jan 19         | NAMEPLATE, markings |
| CERT-ES-03279-1 | 1 OF 1 | 6    | 17 Jan 19         | NAMEPLATE, markings |

**Issues 10 and 11** - No new drawings were introduced.

## Issue 12

| Drawing #  | Sheets | Rev. | Date (Stamp) | Title   |
|------------|--------|------|--------------|---|
| ES-08221-1 | 1 of 1 | AA   | 02 Dec 20    | Schematic AH8503 Hall Effect Sensor                         |
| ES-08619-1 | 1 to 2 | AA   | 02 Dec 20    | Assembly Drawing AH8503 Hall Effect Sensor                  |
| ES-08220-1 | 1 to 2 | AA   | 02 Dec 20    | PCB AH8503 Hall Effect Sensor                               |
| ES-03278-1 | 1 of 1 | 7    | 02 Dec 20    | Nameplate, Markings DXP/S IIB+H2, T6/T5/T4, Silicone        |
| ES-03288-1 | 1 of 1 | 7    | 02 Dec 20    | Nameplate, Markings DXP/S IIB+H2/IIC, T3, Silicone          |
| ES-01148-1 | 1 of 1 | 16   | 02 Dec 20    | Nameplate, Markings DXP/DXS Ex db IIB+H2                    |
| ES-01149-1 | 1 of 1 | 12   | 02 Dec 20    | Assembly, Nameplate & Artwork DXP/DXS IIC                   |
| ES-08605-1 | 1 of 1 | AA   | 02 Dec 20    | Lower Casting, DXP Base With Valve Ports                    |
| ES-08752-1 | 1 of 1 | AA   | 02 Dec 20    | Lower Casting, DXP Base Without Valve Ports                 |
| ES-04311-1 | 1 to 5 | AA   | 02 Dec 20    | D-SERIES Master Assy Ex d, Ex ia, Ex e & Ex nA nC Enclosure |
| ES-08567-1 | 1 of 1 | AA   | 02 Dec 20    | Contactless Positioner Hall Effect Sensor Board Housing     |
| ES-08568-1 | 1 of 1 | AA   | 02 Dec 20    | CPS Magnet Holder Hall Effect Sensor Magnet Lid             |
| ES-08569-1 | 1 of 1 | AA   | 02 Dec 20    | CPS Magnet Holder Hall Effect Sensor Magnet Holder          |
| ES-08570-1 | 1 of 1 | AA   | 02 Dec 20    | Contact Position Sensor Assembly                            |
| ES-08599-1 | 1 of 1 | AA   | 02 Dec 20    | CPS Ring Magnet   |

## Issue 13

| Drawing         | Sheets | Rev. | Date (Stamp) | Title                |
|-----------------|--------|------|--------------|----------------------|
| CERT-ES-04311-1 | 1 to 5 | AB   | 18 Jun 21    | D-SERIES MASTER ASSY |

**Issue 14** - No new drawings were introduced.

## Issue 15

| Drawing         | Sheets | Rev. | Date (Stamp) | Title                                       |
|-----------------|--------|------|--------------|---|
| CERT-ES-01148-1 | 1 of 1 | 16   | 05 Dec 22    | NAMEPLATE Markings, DXP/DXS Ex db IIB+H2    |
| CERT-ES-01149-1 | 1 of 1 | 12   | 07 Dec 22    | ASSEMBLY, NAMEPLATE & ARTWORKDXP/DXS IIC    |
| ES-00746-1      | 1 of 1 | 6    | 18 Nov 22    | MODIFICATION, CASTING IIC                   |
| ES-00747-1      | 1 of 1 | 7    | 18 Nov 22    | MODIFICATION, CASTING IIC                   |
| PS-00177-1      | 1 of 1 | AD   | 15 Feb 23    | PLUG, HOLE                                  |
| S-S01-0007      | 1 of 1 | AD   | 18 Nov 22    | LOWER CASTING, DXP BASE WITH VALVE PORTS    |
| S-S01-0008      | 1 of 1 | AC   | 18 Nov 22    | UPPER CASTING, DXP LID                      |
| S-S01-0012      | 1 of 1 | AE   | 18 Nov 22    | LOWER CASTING, DXP BASE WITHOUT VALVE PORTS |
| S-S01-0013      | 1 of 1 | 8    | 18 Nov 22    | FLAME ARRESTOR, DXP                         |
| S-S01-0016      | 1 of 1 | 13   | 18 Nov 22    | SHAFT, STANDARD                             |
| S-S01-0017      | 1 of 1 | 14   | 18 Nov 22    | SHAFT, NAMUR                                |
| S-S01-SS07      | 1 of 1 | 16   | 18 Nov 22    | LOWER CASTING, DXS W/PORTS                  |
| S-S01-SS08      | 1 of 1 | 13   | 18 Nov 22    | UPPER CASTING, DXS                          |

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# Certificate Annexe



**Certificate Number:** Sira 07ATEX1273X  
**Equipment:** Type DXP and Type DXS Switchboxes  
**Applicant:** Topworx Inc.

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## Issue 16

| Drawing    | Sheets | Rev. | Date (Stamp) | Title   |
|------------|--------|------|--------------|---|
| ES-06649-1 | 1 of 1 | AE   | 01 Jul 23    | Lower Casting, DXP IIC Base with Valve Ports    |
| ES-06650-1 | 1 of 1 | AD   | 01 Jul 23    | Lower Casting, DXP IIC Base without Valve Ports |

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