



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 12ATEX3032X** Issue: **5**

4 Equipment: **Type DQ Valve Position Monitor**

5 Applicant: **Imtex Control Limited**

6 Address: **Unit 4
Tenth Avenue
Deeside Industrial Park
Flintshire CH5 2UA UK**

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 EN 60079-7:2015 + A1:2018 EN 60079-18:2015 + A1:2017 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

Ex eb mb IIC T6 Gb

Ex tb IIIC T85°C Db

(Ta = -40°C to +60°C)

or

Ex eb mb IIC T4 Gb

Ex tb IIIC T100°C Db

(Ta = -40°C to +80°C)

Signed: J A May

Title: Director of Operations



Project Number 80110594

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Type DQ Valve Position Monitors comprise a cylindrical stainless steel enclosure with main enclosure base and threaded domed cover. A drive shaft passing through the enclosure base operates up to four, internally mounted reed switches. The drive shaft also operates a polycarbonate visual position indicator, which is secured externally to the underside of the base and shows the status of the valve. Connection to the reed switches is via Ex e certified terminals. The base has provision for up to three cable entries that are used with suitably certified cable glands, allowing the equipment to be connected to an external electrical power source. Unused cable entries are closed off with suitably certified blanking devices.

The equipment is identified using one of the two nomenclatures below:

Product Nomenclature DQ-a-b-c-d-e-f	
a	Function
b	Enclosure
c	Entry thread types
d	Output drive
e	Indicator
f	Feature designator

Product Nomenclature DQ-b-cc-d-ee-ff-g-h-ii-j-k-l-m-n-o-p-qq	
DQ	Model
b	No. of Primary Function(numeric)
cc	Primary Function
d	No. of Secondary Function
ee	Secondary Function
ff	Non-Standard Switch/Sensor Designator
g	Material
h	Cover Size
ii	Enclosure Coating
j	Conduit Entries Available for Connection
k	Shaft
l	Indicator
m	No. of Extra/Spare Terminals
n	Communication Protocol
o	Regional Certification
p	Hazardous Feature
qq	Special Feature



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Variation 1 - This variation introduced the following change:

- i. The Applicant's address was changed:

From:	To:
Unit 5a Valley Industries	Unit 4, Tenth Avenue
Hadlow Road, Tonbridge	Deeside Industrial Park
Kent TN11 0AH	Flintshire CH5 2UA
UK	UK

Variation 2 - This variation introduced the following changes:

- i. The removal of the following material notes from the housing and the cover variant drawings. 'DIN1690 Part10 Cast Stainless Steel 316SS Grade' and 'exceeds the quality of 150 (ISO 185)'
- ii. The introduction of alternative stainless steel grades for the housing and the cover variants.

Therefore becoming:

IQ-a-b-c-d-e-f

Where b designates enclosure material of manufacture:

S = CF8M or

CF3M or alternative Cast Austenitic Stainless Steel grades

D = CD3MN or alternative Cast Duplex Stainless Steel grades

Variation 3 - This variation introduced the following changes:

- i. Assessment to demonstrate compliance with the latest technical knowledge, the standards EN 60079-0:2009, EN 60079-7:2007, EN 60079-18:2009, and EN 60079-31:2009 were replaced by EN IEC 60079-0:2018, EN 60079-7:2015 + A1:2018, EN 60079-18:2015 + A1:2017, and EN 60079-31:2014 respectively; the markings were updated to recognise the requirements of the latest standards.
- ii. Update to part number system.
- iii. Recognition of drawing modifications to meet requirements of applicable standards and to update labels with the introduction of the UKCA mark

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated CSA Group Reports and Certificate History

Issue	Date	Report number	Comment
0	23 February 2012	R24584A/00	The release of the prime certificate.
1	20 November 2014	R70015826A	The introduction of Variation 1.
2	06 January 2016	R70052295A	The introduction of Variation 2.



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Issue	Date	Report number	Comment
3	15 October 2019	1451	<ul style="list-style-type: none">Transfer of certificate Sira 12ATEX3032X from Sira Certification Service to CSA Group Netherlands B.V.EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (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.)
4	15 March 2022	R80110595A	The introduction of Variation 3.
5	31 March 2022	R80110595A	Issued to correct the product nomenclature

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

- 15.1 The equipment shall be supplied via a fuse that is mounted externally in a safe area and rated at 120 V, 1 A maximum, the fuse shall be capable of withstanding a prospective short circuit current of 1500 A.
- 15.2 Bridges shall not be used with the terminals.

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 Every unit shall be subjected to a visual inspection in accordance with Clause 9.1 of EN 60079-18:2015 + A1:2017.
- 17.4 Every unit shall be subjected to a routine dielectric strength test of at least 1500 V r.m.s. a.c. applied for at least 1 s, or at least 1800 V r.m.s. a.c. applied for at least 100 ms, between all terminals and the equipment enclosure, in accordance with Clause 9.2 of EN 60079-18:2015 + A1:2017



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Certificate Annexe



Certificate Number: Sira 12ATEX3032X
Equipment: Type DQ Valve Position Monitor
Applicant: Imtex Control Limited

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
A140079-1	1 of 1	A	21 Feb 12	Switch Housing
A140079-2	1 of 1	A	21 Feb 12	Reed Switch
A140079-3	1 of 1	B	21 Feb 12	Switch Assembly
A140079-6	1 of 1	-	21 Feb 12	Encapsulation Procedure
A160185	1 of 1	C	21 Feb 12	Title Plate
J100390	1 of 1	B	21 Feb 12	Required Features
C110130	1 of 1	B	21 Feb 12	Small Cover
C110131	1 of 1	B	21 Feb 12	Tall Cover
C100150	1 of 1	C	21 Feb 12	Housing – Master Drawing
J100400	1 of 1	A	21 Feb 12	Four Switch Layout
A190266	1 of 1	A	21 Feb 12	Master Model Description
J100306-DQ	1 of 1	-	21 Feb 12	Shaft Assembly
DQ25S5SR-000	1 of 1	A	21 Feb 12	Two Switch Valve Position Monitor
DQ58S5SR-000	1 of 1	A	21 Feb 12	Four Switch Valve Position Monitor
TW523C	1 of 1	-	21 Feb 12	Cable Type 598
TW624	1 of 1	-	21 Feb 12	Small Ferrule

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
A160185	1 of 1	D	13 Nov 14	DQ Title Plate - Exme

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
C100150	1 of 1	E	08 Dec 15	Housing – Master Drawing
C110130	1 of 1	D	08 Dec 15	Small Cover
C110131	1 of 1	D	08 Dec 15	Tall Cover
A190266	1 of 1	C	08 Dec 15	Type DQ - Master Model Description

Issue 3. No new drawings were introduced

Issue 4

Drawing	Sheets	Rev.	Date (Stamp)	Title
A160185	1 of 1	E	25 Jan 22	DQ Title Plate – Exme
A190266U	1 to 2	D	03 Mar 22	DQ - Master Model Description
C100150	1 of 1	F	25 Jan 22	IQ Housing

Issue 5. No new drawings were introduced



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