

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU - Type Examination Certificate Number: **BAS01ATEX2426X – Issue 10**

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. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **Series 200 Pressure Switch**

Manufacturer: **Delta Controls Limited**

Address: **Riverside Business Park, Dogflud Way, Farnham, Surrey, GU9 7SS**

This re-issued certificate extends EC - Type Examination Certificate No. **BAS01ATEX2426X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. SGS Baseefa, Notified Body Number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, is responsible only for the additional work relating to this re-issued certificate and any other supplementary certificate it has issued.

The examination and test results are recorded in confidential Report No. **See Certificate History**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN60079-1:2014

EN60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following :

⊕ II 2 GD Ex db IIC T4 (T_{amb} - 60°C to + 80°C) Gb
Ex tb IIIC T135°C (T_{amb} - 60°C to + 80°C) Db IP66
and
Ex db IIC T6 (T_{amb} - 60°C to + 40°C) Gb
Ex tb IIIC T85°C (T_{amb} - 60°C to + 40°C) Db IP66

SGS Baseefa Customer Reference No. **0279**

Project File No. **17/0649**

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TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M Downey
CERTIFICATION
MANAGER

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Schedule

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Certificate Number BAS01ATEX2426X – Issue 10

15 Description of Product

A Series 200 Pressure Switch comprising an enclosure, with threaded cover, manufactured in cast aluminium or cast iron. The cover is secured with an integral locking arrangement.

The interior of the enclosure is fitted with up to two micro switches rated up to 10A, 440 Vac or 1A 48 Vdc, with associated switch assembly and a terminal block. The switch assembly is mechanically linked to an externally mounted pressure or temperature sensing actuator by means of a stainless steel operating rod which passes through a stainless steel bushing screwed into the base of the housing and secured by a lock nut.

The optional addition of fault monitoring resistors in accordance with the certified scheduled drawings is permitted, with the apparatus rated up to a maximum of 30V d.c. In this form the enclosure is fitted with a label stating "Do not open when an explosive atmosphere is present."

Cable entry holes are provided as specified on the certified drawings for the accommodation of suitable certified flameproof cable entry devices, with or without the interposition of a suitable certified flameproof adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

Suitable flameproof cable entry devices, thread adaptors and stopping plugs certified as Equipment (not a component) under an EC type Examination Certificate to Directive 94/9/EC may also be used in the manner specified above.

This certificate covers the following alternative arrangements:

TYPE	SERIES
Pressure Switch	204,207,208,209,230,280.
Differential Pressure Switch	301,304,306,380.
Temperature Switch	721,729,731 to 739,771 to 779, 740,760,780.
Flow Switch	131.

16 Report Number

17(C)0649

17 Specific Conditions of Use

1. The apparatus has a specified flamepath gap, between the operating rod within the bore of the bushing, which is less than the maximum permitted by the standard EN 60079-1:2014. The user shall ensure that, in service, the diametrical clearance of this flamepath does not exceed 0.1mm.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
14606	1	J	13/11/2017	Enclosure Assy - Classic

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
1/50023	-	B	23/12/03	Actuator Details
1/50025	-	C	5/05/05	General arrangement Series 230
14610	-	G	22/09/2015	Certification Label ATEX
14754	-	E	22/09/2015	Labels
DS_20322	-	B	22/09/2015	Additional Labels
14620	-	B	19/11/2014	Alternative mechanism Series 280, 380, & 780
14744	-	B	19/11/2014	Inlet Port arrangement
14608	-	B	19/11/2014	Stopping Plug Variation
14621	-	C	28/10/2014	Label Details
14622	-	B	19/11/2014	General arrangement Series 740 & 760
10910	-	C	28/10/2014	Connection Diagram – 12K Resistors
14611	-	D	28/10/2014	Monitoring Resistor Details
14623	-	C	17/04/2015	General arrangement Series 131

20 Certificate History

Certificate No.	Date	Comments
BAS01ATEX2426X	11 March 2002	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997+Amendments 1&2, EN 50018:2000 is documented in Test Report No. 00(C)0783.
BAS01ATEX2426X/1	17 November 2003	Alternative end of line resistor
BAS01ATEX2426X/2	8 January 2004	Increase in the maximum working pressure for the Series 304 Differential Pressure Switch from 250 bar to 400 bar
BAS01ATEX2426X/3	26 February 2004	To permit the equipment to be used in explosive dust atmospheres, in accordance with EN 50281-1-1: 1998 + Amendment 1, in addition to explosive gases, mists and vapours. The warning included on the information now label reads ' Do not open when an explosive atmosphere is present ', IP6X is added to the certification label and the marking for the equipment is modified as follows: ⊕ II 2 GD EEx d IIC T85°C (T _{amb} -60°C to +40°C) T135°C (T _{amb} -60°C to +80°C)
BAS01ATEX2426X/4	13 May 2004	Increase in the maximum drilling depths for internal and external mounting holes. Clarification of information label details.
BAS01ATEX2426X/5	8 June 2005	To permit the fitting of alternative terminal block types.

Certificate No.	Date	Comments
BAS01ATEX2426X/6	16 July 2007	<p>To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2006, EN 60079-1: 2004, EN 61241-0: 2006 and EN 61241-1: 2004 in respect of the differences from EN 50014: 1997 + Amds. 1 and 2, EN50018: 2000 and EN50281-1-1: 1998+ Amendment 1 respectively and that none of these differences affect this equipment</p> <p>⊕ II 2 GD Exd IIC T6 T85 A21 IP66 (T_{amb} -60°C to +40°C) Or Exd IIC T4 T135 A21 IP66 (T_{amb} -60°C to +80°C)</p>
BAS01ATEX2426X/7	24 August 2007	<p>Fitting of additional labels to identify cable entry threads and for identification purposes. Fitting of an additional, KOSHA, certification label.</p>
BAS01ATEX2426X/8	8 February 2012	<p>The equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2009, EN60079-1: 2007 and EN60079-31: 2009 and compliance is confirmed.</p> <p>The series 200 pressure switch is marked:-</p> <p>⊕ II 2 GD Ex d IIC T4 (T_{amb} - 60°C to + 80°C) Gb Ex tb IIIC T135°C (T_{amb} - 60°C to + 80°C) Db IP66 and Ex d IIC T6 (T_{amb} - 60°C to + 40°C) Gb Ex tb IIIC T85°C (T_{amb} - 60°C to + 40°C) Db IP66</p>
BAS01ATEX2426X/9	5 November 2015	<p>The equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012 +A11:2013, EN60079-1: 2014 and EN60079-31: 2014 and compliance is confirmed.</p> <p>The series 200 pressure switch is marked:-</p> <p>⊕ II 2 GD Ex db IIC T4 (T_{amb} - 60°C to + 80°C) Gb Ex tb IIIC T135°C (T_{amb} - 60°C to + 80°C) Db IP66 and Ex db IIC T6 (T_{amb} - 60°C to + 40°C) Gb Ex tb IIIC T85°C (T_{amb} - 60°C to + 40°C) Db IP66</p> <p>Drawings have also been updated to include new address. Deletion of drawing number 14880 "Certification label for KOSHA"</p>
BAS01ATEX2426X/10	8 January 2018	<p>The manufacturer requests supplementary certification to permit the Introduction of an alternative microswitch or contacts, having a maximum rating of 1A at 48v DC Drawing 14606 has been amended to reflect this. See report 17(C)0649</p>
For drawings applicable to each issue, see original of that issue.		