



- EU-TYPE EXAMINATION CERTIFICATE**
- Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
- EU-Type Examination Certificate Number: ITS17ATEX101854X Issue 0**
- Product:** Series V.- & W.- Pressure, Differential Pressure and Temperature Switches
- Manufacturer:** BETA B.V.
- Address:** Verrijn Stuartlaan 22, 2288 EL Rijswijk, The Netherlands
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report 102954123CHE-001 dated May 2017.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 + A11:2013, EN 60079-1:2014 & EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe 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 G Ex db IIC T6...T5 Gb
-60°C ≤ Tamb ≤ +70°C for T6
-60°C ≤ Tamb ≤ +80°C for T5
II 2 D Ex tb IIIC T100°C Db
-60°C ≤ Tamb ≤ +80°C

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P Moss
Certification Officer
8 May 2017



SCHEDULE

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13. Description of Equipment or Protective System

The Pressure, Differential Pressure and Temperature Switches Series V.- & W.- comprise of an enclosure which measures approximately 200mm x 115mm x 95mm. The enclosure can be provided in aluminium, stainless steel (W:- series) or cast iron (V:- series). Both internal and external earthing points are provided. Both the V:- series and W:- series enclosures may be provided with one or two threaded entries for installation of cable glands in various thread forms, the thread form of which is denoted in the marked model number. The enclosures are populated with one or two micro-switches and a terminal block for connection to external circuits. The micro switches are mechanically linked to various mechanical process sensing elements via an operating rod.

Electrical ratings

480 V max. , 10 A, 50/60Hz
125 Vdc max, 5A max

The maximum rated process temperature is 100°C.

14. Report Number

Intertek Report Ref: 102954123CHE-001 dated May 2017.

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- Temperatures at the branching point can reach 92.5°C in an upper ambient of 80°C or 82.5°C in an upper ambient of 70°C. Selection of cable must be appropriate for the ambient temperature range in which the product is used.
- Only suitably approved Ex db IIC Gb/Ex tb IIIC Db with an ambient rating of -60°C to 80°C cable glands or blanking elements to be used.
- Repair of flamepaths is not intended.

(b). Conditions of Manufacture

- None.

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Valued Quality. Delivered.

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16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 102954123CHE-001 dated May 2017.

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Assembly Pressure switch series: W.-..... for ATEX, IECEX, CSA & FM	30.09.81	I	04-05-2017
Assembly Press.- Temp. and Differential switches series: W.-..... for ATEX, IECEX, CSA and FM	30.09.82	B	09-03-2015
Assembly Differential switches series: W.-D...M-..... for ATEX, IECEX, CSA and FM	30.09.83	B	09-03-2015
Nameplate BETA switch, series: W.- for ATEX, IECEX, CSA, FM	30.09.84	K	13-04-2017
BETA PRESSURE & TEMPERATURE SWITCHES Assembly, installation, adjustment	SP 001	Q	October 2016
Warning sticker on W.-enclosure	30.09.106	A	13-04-2017
SERIES: V.-.....-BETA PRESSURE SWITCHES Terminal block configurations A and B	30.09.39	B	20-8-1997
Assembly Temperature switch series: V.-.....	30.09.50	0	20-8-97
Assembly Differential pressure switch series: V.-D...M-.....	32.09.01	A	20-8-97
Location of the nameplate on Series W.- enclosure	30.09.105	A	12-05-2015
Assembly Pressure switch series: W.-..... for ATEX, IECEX, CSA & FM	30.09.81	I	04-05-2017
Assembly Press.- Temp. and Differential switches series: W.-..... for ATEX, IECEX, CSA and FM	30.09.82	B	09-03-2015
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Nameplate BETA switch, series: W.- for ATEX, IECEX, CSA, FM	30.09.84	K	13-04-2017

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