



[1]

UNITED KINGDOM CONFORMITY ASSESSMENT
UK-TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] UK-Type Examination Certificate No.: **UL21UKEX2362X Rev. 1**

[4] Product: **Differential Pressure Switches, Series 1950G**

[5] Manufacturer: **Dwyer Instruments LLC**

[6] Address: **102 Indiana Highway 212, Michigan City, IN 46360 USA**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this 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 Schedule 1 of the Regulations.
The examination and test results are recorded in the confidential report **US/UL/ExTR19.0051/02**.

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

EN IEC 60079-0:2018 EN 60079-1:2014

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] 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.

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

[12] The marking of the product shall include the following:

 **II 2 G Ex db IIB + H₂ T6 Gb**

Certification Officer
Andrew Moffat

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2022-05-27

Re-issued: 2023-04-26

Approved Body UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
Phone : +44 (0)1256 312100

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[14]

Schedule

UK-TYPE EXAMINATION CERTIFICATE No.

UL21UKEX2362X Rev. 1

[15]

Description of Product

The series 1950G Differential Pressure Switches allow for the operation of a switch through means of an internal diaphragm. During operation, the differential pressure causes the displacement of the diaphragm, which in turn magnetically operates the switch.

Nomenclature:

1950G - 00 - B - 120
I II III IV

I – Basic Series Designation

1950G – 1950G Pressure Switch

II – Pressure Range Designation

- 00 – 0.07 to 0.15 In. WC
- 0 – 0.15 to 0.5 In. WC
- 1 – 0.4 to 1.6 In. WC
- 5 – 1.4 to 5.5 In. WC
- 10 – 3 to 11 In. WC
- 20 – 4 to 20 In. WC

III – Diaphragm and O-Ring Material Designation

- B – Buna N
- N – Neoprene
- S – Silicone
- V – Fluoroelastomer
- F – Fluorosilicone

IV – Input Voltage Supply

- 24 – 24VDC
- 120 – 120VAC
- 240 – 240VAC

Temperature range

The ambient temperature range is -XX °C to +60 °C, where XX is the minimum ambient temperature and is based on the material of the O-Ring/Diaphragm as detailed in the table below:

O-Ring/Diaphragm Material	Lower ambient temperature
Buna-N Neoprene	-17°C
Silicone Fluorosilicone	-40°C
Fluoroelastomer	-1°C

Electrical data

Supply: 24 Vdc, 120 Vac or 240 Vac ± 10%
Relay Contacts: 10A – 120/240 Vac, 28 Vdc
Resistive 50mA – 125 Vdc

Routine tests

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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Test Report No. (associated with this certificate issue)

The test report no. is provided under item no. [8] on page 1 of this UK-Type Examination Certificate.

[17]

Specific conditions of use:

- The cover bolts have a minimum property class of 10.9.
- Repairs to the flamepaths are only to be performed by Dwyer Instruments LLC.

[18]

Conditions of certification:

None

[19]

Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.



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Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Housing 1950G UL/CSA/ATEX/IECEX Approval	28-001176-21	7	2020-04-20
Housing 1950G UL/CSA/ATEX/IECEX Approval	28-001176-22	6	2020-04-20
Top Plate 1950G UL/CSA/ATEX/IECEX Approval	28-001176-23	6	2020-04-20
Top Plate and Fasteners 1950G UL/CSA/ATEX/IECEX Approval	28-001176-24	9	2020-04-20
Drain Plug 1950G UL/CSA/ATEX/IECEX Approval	28-001176-26	6	2020-04-20
Circuit Board 120Vac, 240Vac & 24 Vdc 1950G UL/CSA/FM/ATEX/IECEX Approval	28-001176-27	12	2020-04-24
Nameplate 1950G ATEX Approval	28-001176-28	6	2023-02-15
Assembly Detail 1950G UL/CSA/ATEX/IECEX Approval	28-001176-33	10	2020-04-20
Schematic 1950G 120Vac/ 240Vac/ 24Vdc	28-001176-34	9	2020-04-24
IOM Guidelines 1950G ATEX/IECEX (2 Pages)	28-001176-35	9	2022-05-20
Alternate Drain Plug 1950G US/CSA/ATEX/IECEX Approval	28-001176-39	5	2020-04-20
Housing 1950G UL/CSA/ATEX/IECEX Approval Alternate Bolt Construction	28-001176-85	4	2020-04-20
Housing 1950G UL/CSA/ATEX/IECEX Approval Alternate Bolt Construction	28-001176-86	4	2020-04-20
Top Plate 1950G UL/CSA/ATEX/IECEX Approval Alternate Bolt Construction	28-001176-87	4	2020-04-20
Top Plate and Fasteners 1950G UL/CSA/ATEX/IECEX Approval Alternate Bolt Construction	28-001176-88	3	2020-04-20