



UNITED KINGDOM CONFORMITY ASSESSMENT

1 UK TYPE EXAMINATION CERTIFICATE

2 Equipment Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: CSAE 22UKEX1413X Issue: 0

4 Product: 057-07** Range of Electrical Snap-Switch Assemblies and
057-0917 Electrical Snap-Switch Assembly

5 Manufacturer: ITT Aerospace Controls

6 Address: 28150 Industry Drive
Valencia
California 91355
USA

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 reports listed in Section 14.2.

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

EN IEC 60079-0:2018/AC:2020 EN 60079-1:2014/AC:2018 EN 60079-31:2014

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified 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 this product shall be in accordance with Regulation 41 and include the following:



II 2 G D

Ex db IIC T* Gb (Ta = -40°C to +*°C) (* A Max)

Ex tb IIIC T*°C Db IP6X (Ta = -40°C to +*°C) (* A Max)

*These values are dependent upon the Type of Electrical
Snap-Switch Assembly

Tamb = -40°C to +*°C

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SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

CSAE 22UKEX1413X

Issue 0

13 DESCRIPTION OF PRODUCT

The 057-07** Range of Electrical Snap-Switch Assemblies as detailed in Figures 1, 2 and 3, are hermetically sealed pressure or temperature switches that are activated by a Belleville spring that snaps at a pre-determined force. They are manufactured from stainless steel and are of basic cylindrical shape with a hexagonal section in the middle. One end contains the actuator assembly and the other end has a ½"-14 NPT threaded portion that contains an encapsulant through which the wiring for connection to external circuits passes.

Figure 1
Drawing of a 057-076*
Electrical Snap-Switch

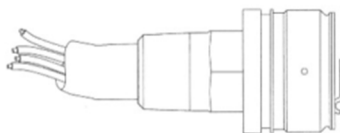


Figure 2
Drawing of a 057-077*
Electrical Snap-Switch

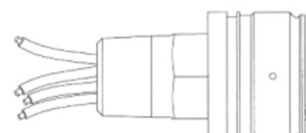
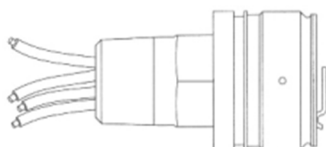


Figure 3
Drawing of a 057-0917
Electrical Snap-Switch



Markings applicable to gas

Part No.	Description	Applicable marking
057-0760	Single Pole Double Throw, 5 Amp or 11 Amp, Halogen-free cable	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (5 A Max) Ex db IIC T6 Gb (Ta = -40°C to +60°C) (11 A Max)
057-0761	Double Pole Double Throw, 5 Amp or 11 Amp, Halogen-free cable	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (5 A Max) Ex db IIC T6 Gb (Ta = -40°C to +45°C) (11 A Max)
057-0762	Single Pole Double Throw, 1 Amp, Halogen-free cable	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (1 A Max)
057-0763	Double Pole Double Throw, 1 Amp, Halogen-free cable	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (1 A Max)
057-0770	Single Pole Double Throw, 5 Amp or 11 Amp, Free leads	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (5 A Max) Ex db IIC T5 Gb (Ta = -40°C to +75°C) (11 A Max)
057-0771	Double Pole Double Throw, 5 Amp or 11 Amps, Free leads	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (5 A Max) Ex db IIC T4 Gb (Ta = -40°C to +65°C) (11 A Max)
057-0772	Single Pole Double Throw, 1 Amp, Free leads	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (1 A Max)
057-0773	Double Pole Double Throw, 1 Amp, Free leads	Ex db IIC T6 Gb (Ta = -40°C to +70°C) (1 A Max)
057-0917	Single Pole Double Throw, 1 Amp, Free leads	Ex db IIC T6 Gb (Ta = -40°C to +75°C) (1 A Max)

Markings applicable to dust

Part No.	Description	Applicable marking
057-0760	Single Pole Double Throw, 5 Amp or 11 Amp, Halogen-free cable	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (5 A Max) Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +60°C) (11 A Max)
057-0761	Double Pole Double Throw, 5 Amp or 11 Amp, Halogen-free cable	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (5 A Max) Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +45°C) (11 A Max)

SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

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Issue 0

Part No.	Description	Applicable marking
057-0762	Single Pole Double Throw, 1 Amp, Halogen-free cable	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (1 A Max)
057-0763	Double Pole Double Throw, 1 Amp, Halogen-free cable	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (1 A Max)
057-0770	Single Pole Double Throw, 5 Amp or 11 Amp, Free leads	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (5 A Max) Ex tb IIIC T100°C Db IP6X (Ta = -40°C to +75°C) (11 A Max)
057-0771	Double Pole Double Throw, 5 Amp or 11 Amps, Free leads	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (5 A Max) Ex tb IIIC T135°C Db IP6X (Ta = -40°C to +65°C) (11 A Max)
057-0772	Single Pole Double Throw, 1 Amp, Free leads	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (1 A Max)
057-0773	Double Pole Double Throw, 1 Amp, Free leads	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +70°C) (1 A Max)
057-0917	Single Pole Double Throw, 1 Amp, Free leads	Ex tb IIIC T85°C Db IP6X (Ta = -40°C to +75°C) (1 A Max)

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	01 March 2023	R80144811A	The release of the prime certificate.

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

- 15.1 Each Snap-Switch Assembly shall be installed such that the equipment wiring is protected from mechanical damage. The equipment wiring must not be subjected to tension or torque. If it is to be terminated within a potentially explosive atmosphere, a suitably certified termination facility must be used.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

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

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 Each Electrical Snap-Switch Assembly enclosure shall be subjected to a routine overpressure test of at least 9.3 bar for a period of at least 10 s as required by EN 60079-1:2014 Clause 16. There shall be no permanent deformation or damage to the enclosure.



Certificate Annexe

Certificate Number: CSAE 22UKEX1413X

Product: 057-07** Range of Electrical Snap-Switch Assemblies and
057-0917 Electrical Snap-Switch Assembly

Manufacturer: ITT Aerospace Controls

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
057-0760	1 of 1	E	21 Apr 21	Electrical Assy
057-0761	1 of 1	E	21 Apr 21	Electrical Assy
057-0762	1 of 1	E	21 Apr 21	Electrical Assy M-Option
057-0763	1 of 1	E	21 Apr 21	Electrical Assy M-Option
057-0770	1 of 1	E	21 Apr 21	Electrical Assy
057-0771	1 of 1	F	21 Apr 21	Electrical Assy
057-0772	1 of 1	E	21 Apr 21	Electrical Assy M-Option
057-0773	1 of 1	E	21 Apr 21	Electrical Assy M-Option
S057-0760	1 of 1	F	21 Apr 21	Electrical Assy
S057-0761	1 of 1	F	21 Apr 21	Electrical Assy
S057-0762	1 of 1	F	21 Apr 21	Electrical Assy
S057-0763	1 of 1	F	21 Apr 21	Electrical Assy
S057-0770	1 of 1	F	21 Apr 21	Electrical Assy
S057-0771	1 of 1	G	14 May 21	Electrical Assy
S057-0772	1 of 1	G	21 Apr 21	Electrical Assy
S057-0773	1 of 1	G	14 May 21	Electrical Assy
057-0917	1 of 1	B	22 Jul 13	Electrical Assembly
058-0157	1 of 2	T	06 Feb 23	Electrical Caps
058-0157	2 of 2	T	06 Feb 23	Electrical Caps
058-0214	1 of 1	G	06 Feb 23	Cap, Electrical



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