



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 10ATEX1017X** Issue: **0**

4 Equipment: **057-7\*\* Range of Electrical Snap-Switch Assemblies**

5 Applicant: **ITT Control Technologies** **ITT Control Technologies**

6 Address: **28150 Industry Drive** **242 Building**  
**Valencia** **Ave Washington No 3701**  
**CA 91355** **Edif. 8**  
**USA** **Parque Industrial Las Americas**  
**Chihuahua**  
**Mexico**

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2009 EN 60079-1:2007 IEC 60079-31:2008 Ed 1

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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 2 G D

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

-\*- These values are dependent upon the Type of Electrical Snap-Switch Assembly refer to Certificate Schedule, Section 13, Description of Equipment

Project Number 18834  
C. Index 18

C Ellaby  
Certification Officer

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

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13 DESCRIPTION OF EQUIPMENT

The 057-7\*\* Range of Electrical Snap-Switch Assemblies as detailed in Figures 1 and 2, 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 1/2"-14 NPT threaded portion that contains an encapsulant through which the wiring for connection to external circuits passes.

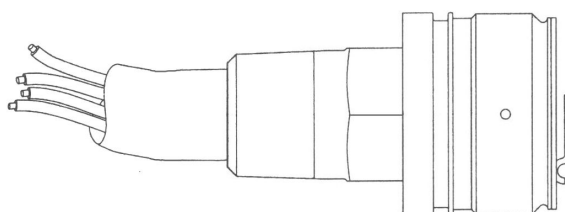


Figure 1 - Drawing of a 057-76\* Electrical Snap-Switch.

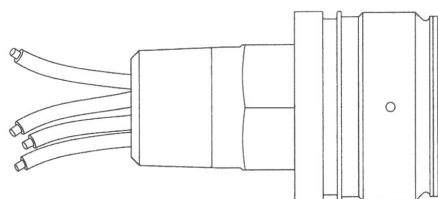


Figure 2 - Drawing of a 057-77\* Electrical Snap-Switch.

Markings applicable to gas

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

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**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900  
Fax: +44 (0) 1244 681330  
Email: [info@siracertification.com](mailto:info@siracertification.com)  
Web: [www.siracertification.com](http://www.siracertification.com)



**SCHEDULE**

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**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)
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)

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	28 June 2010	R18834A/00	The release of prime certificate.

**15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)**

15.1 Each 057-7\*\* Range of Electrical 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 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 CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each 057-7\*\* 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 IEC 60079-1:2007 Clause 16. There shall be no permanent deformation or damage to the enclosure.

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**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900  
 Fax: +44 (0) 1244 681330  
 Email: [info@siracertification.com](mailto:info@siracertification.com)  
 Web: [www.siracertification.com](http://www.siracertification.com)

# Certificate Annexe

Certificate Number: Sira 10ATEX1017X

Equipment: 057-7\*\* Range of Electrical Snap-Switch Assemblies

Applicant: ITT Control Technologies



## Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
057-0760	1 of 1	D	15 Jan 10	Electrical Assy
057-0761	1 of 1	D	15 Jan 10	Electrical Assy
057-0762	1 of 1	D	15 Jan 10	Electrical Assy M-Option
057-0763	1 of 1	D	15 Jan 10	Electrical Assy M-Option
057-0770	1 of 1	D	15 Jan 10	Electrical Assy
057-0771	1 of 1	D	15 Jan 10	Electrical Assy
057-0772	1 of 1	D	15 Jan 10	Electrical Assy M-Option
057-0773	1 of 1	D	15 Jan 10	Electrical Assy M-Option
058-0157	1 of 2	J	03 Jun 10	Electrical Caps
058-0157	2 of 2	J	03 Jun 10	Electrical Caps
S057-0760	1 of 1	E	05 Jul 10	Electrical Assy
S057-0761	1 of 1	E	05 Jul 10	Electrical Assy
S057-0762	1 of 1	E	05 Jul 10	Electrical Assy
S057-0763	1 of 1	E	05 Jul 10	Electrical Assy
S057-0770	1 of 1	E	05 Jul 10	Electrical Assy
S057-0771	1 of 1	F	05 Jul 10	Electrical Assy
S057-0772	1 of 1	F	05 Jul 10	Electrical Assy
S057-0773	1 of 1	F	05 Jul 10	Electrical Assy

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