



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 07ATEX1316** Issue: **0**

4 Equipment: **YFC Series Limit Switches**

5 Applicant: **Cortem S.p.A.**

6 Address: Via Aquileia
10 Villesse
Gorizia
Italy 34070

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 60079-0:2006 EN 60079-1:2004 EN 61241-0:2006 EN 61241-1:2004

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 GD
Ex d IIC T6 Ta -20°C to +55°C
Ex d tD A21 IP66/67 T85°C

Project Number 51A16207
C. Index 13


C Ellaby
Certification Officer

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 07ATEX1316
Issue 0

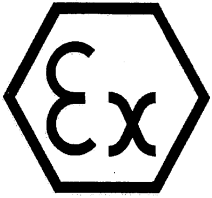
13 DESCRIPTION OF EQUIPMENT

The switch uses a cylindrical, metallic housing to contain a support sleeve that secures an internal, contact block. A threaded bush, incorporating an operating rod fixed in place by a retaining washer, is mounted at one end of the housing, this assembly forms both a threaded flamepath and a cylindrical flamepath. The operating rod is used to trigger the contact block and is activated by various operator types that are attached to the housing. The other end of the housing is fitted with a cover secured by four, M4, socket cap head screws. On one side, this cover forms a cylindrical flame path with the housing, on the other side, it provides an external, threaded spigot for connection with a suitably certified, cable gland.

Product code nomenclature: (a-b-c)

a = Series type	b = Operating head type	c = Contact type
YFC	E11 - Stainless steel plain plunger	Z11 - Snap action contacts 1NO+1NC
	E12 - Stainless steel ball plunger	X11 - Not over lapping contacts slow action 1NO+1NC
	E13 - Stainless steel 12 dia roller plunger	Y11 - Over lapping contacts slow action 1NO+1NC
	E21 - Stainless steel lateral plain plunger	W02 - Slow action contacts 2NC
	E22 - Stainless steel lateral plunger with 12 dia vertical roller	W20 - Slow action contacts 2NO
	E23 - Stainless steel lateral plunger with 12 dia horizontal roller	Z02 - Snap action contacts 2NC
	E31 - 22 dia nylon roller one way lever	
	E32 - 22 dia stainless steel roller one way lever	
	E33 - 22 dia steel ball bearing one way lever	
	E41 - 22 dia nylon roller lever	
	E42 - 22 dia stainless steel roller lever	
	E43 - 22 dia steel ball bearing roller lever	
	E44 - 50 dia rubber roller lever	
	E51 - Adjustable 22 dia nylon roller lever	
	E52 - Adjustable 22 dia stainless steel roller lever	
	E53 - Adjustable 22 dia steel ball bearing roller lever	
	E61 - Nylon actuator with stainless steel spring	
	E62 - Stainless steel spring actuator	
	E71 - Adjustable 3 dia stainless steel rod lever	
	E72 - Adjustable nylon rod lever	
	E73 - Adjustable 3 dia fibreglass rod lever	
	E74 - Adjustable fibreglass rod lever	
	E75 - Adjustable 3x3 square steel rod lever	
	E91 - Stainless steel spring multidirectional actuator	
	E99 - Pull action with ring	

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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	11 January 2008	R51A16207A	The release of prime the certificate.

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

None

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.