



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

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#### 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)

<b>a = Series type</b>	<b>b = Operating head type</b>	<b>c = Contact type</b>
YFC	E11 - Stainless steel plain plunger E12 - Stainless steel ball plunger E13 - Stainless steel 12 dia roller plunger E21 - Stainless steel lateral plain plunger E22 - Stainless steel lateral plunger with 12 dia vertical roller E23 - Stainless steel lateral plunger with 12 dia horizontal roller 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	Z11 - Snap action contacts 1NO+1NC X11 - Not over lapping contacts slow action 1NO+1NC Y11 - Over lapping contacts slow action 1NO+1NC W02 - Slow action contacts 2NC W20 - Slow action contacts 2NO Z02 - Snap action contacts 2NC



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**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

<b>Issue</b>	<b>Date</b>	<b>Report no.</b>	<b>Comment</b>
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.