



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX3103X** Issue: **0**

4 Equipment: **WCP-BG Manual Call Point, WCP-PB Manual Call Point, WCP-TR Manual Call Point, WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX Manual Call Points (with resistors)**

5 Applicant: **Federal Signal Corporation**

6 Address: **2645 Federal Signal Drive
University Park
Illinois 60466-3195
USA**

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:

IEC 60079-0:2007 Ed 5 EN 60079-1:2004 EN 60079-7:2007 EN 61241-1:2004
IEC 60079-18:2009 Ed 3

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:

WCP-BG, WCP-PB and WCP-TR



**II 2GD
Ex e d IIC T6 Gb
Ex t IIIC T60°C Db
(-40°C ≤ Ta ≤ +55°C)**

WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX



**II 2GD
Ex e d mb IIC T4 Gb
Ex t IIIC T70°C Db
-40°C ≤ Ta ≤ +50°C**

Project Number 22025
C. Index 13

D R Stubbings BA MIET
Certification Manager

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Sira Certification Service

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The equipment is a range of manual call points, as described below:

Model	Description of Enclosure	Contents includes	Mode of operation
WCP-BG	Aluminium enclosure fitted with a glass window	'Ex d' switch	Break glass
WCP-PB	Aluminium enclosure fitted with a push button	'Ex d' switch	Push button fitted with a spring-loaded cover that must be lifted before operating
WCP-TR	Aluminium enclosure fitted with a push button	'Ex d' switch	Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool
WCP-BG-XXX	Aluminium enclosure fitted with a glass window	'Ex d' switch and up to two resistor modules	Break glass
WCP-PB-XXX	Aluminium enclosure fitted with a push button	'Ex d' switch and up to two resistor modules	Push button fitted with a spring-loaded cover that must be lifted before operating
WCP-TR-XXX	Aluminium enclosure fitted with a push button	'Ex d' switch and up to two resistor modules	Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool

In all cases, external connections are made via 'Ex e' terminals mounted within the enclosure, the cables entering the enclosure via certified cable glands.

The following ratings are applicable:

WCP-BG, WCP-PB and WCP-TR	WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX
AC Voltage 250 V Max Current 5 A Max DC Voltage 50 V Max Current 1 A Max	DC Voltage 56 V Max Current 0.75 A Max or DC Voltage 28 V Max Current 1.0 A Max or DC Voltage 15 V Max Current 1.0 A Max or DC Voltage 9 V Max Current 1.0 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	27 May 2010	R22025A/00	The release of the prime certificate.

14.3 Certificate number Sira 09ATEX3286X Issue 0

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- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 The terminals shall be fitted only with wires that have cross-sectional area falling within the following limitations:
WCP-BG, WCP-PB and WCP-TR Call Points - 0.5 mm² to 4 mm²
WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX Call Points fitted with terminal strip - 0.5 mm² to 4 mm²
WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX Call Points fitted with rail mounted terminals – 0.5 mm² to 2.5 mm²
- 15.2 Not more than one single or multiple strand lead shall be connected to a terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
- 15.3 Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the metal of the terminal throat.
- 15.4 During installation, the terminals shall be only wired with cable in an ambient temperature range between -10°C to 80°C.
- 15.5 All terminal screws, used or unused, shall be fully tightened down.
- 15.6 Plain holes are provided for M20 cable glands or blanking elements. All of these shall be fitted with either a cable gland or certified blanking element that is suitable for the application and has been certified by a notified body. These shall provide and maintain a minimum enclosure ingress protection of IP66.
- 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 All complete WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX manufactured units shall be subjected to a routine dielectric strength test of 500V r.m.s. a.c. applied for 1 s or 600V r.m.s. a.c. applied for 100 ms between all terminals and the equipment enclosure, in accordance with Clause 9.2 of IEC 60079-18:2009.
- 17.4 All completed resistor modules shall be subjected to a visual inspection on the encapsulation in accordance with Clause 9.1 of IEC 60079-18:2009. No damage shall be evident such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.
- 17.5 The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

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Certificate Annexe

Certificate Number: Sira 10ATEX3103X

Equipment: WCP-BG Manual Call Point, WCP-PB Manual Call Point, WCP-TR Manual Call Point, WCP-BG-XXX, WCP-PB-XXX and WCP-TR-XXX Manual Call Points (with resistors)

Applicant: Federal Signal Corporation



Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
D150 99002 SC	1 of 1	A	19 May 10	WCP-BG, WCP-PB and WCP-TR Label Drawing

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