



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1347U** Issue: **1**

4 Component: **Type 5M500 Bolted Plug, Socket & Coupler**

5 Applicant: **Victor Products Limited**

6 Address: **New York Way  
Newcastle upon Tyne  
NE27 0QF  
UK**

7 This component and any acceptable variation thereto are 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



I M2  
Ex d I Mb

Project Number 23004

C Ellaby  
Deputy Certification Manager

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

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#### 13 DESCRIPTION OF COMPONENT

**Type 5M500PB Bolted Plug** - is rated at up to 750 A, 5000 V. The plug comprises a gunmetal enclosure, incorporating a screened insulator assembly with three main contact tubes, one pilot circuit contact tube, two auxiliary tubes and earth connections; it also has a gland assembly for the attachment of unarmoured cables. The power and contact tubes and the earth clamp are fitted with grub screws for cable core and screen/earth connection respectively.

The plug interface flange complies dimensionally with BS 5620:1990 and is for association with any socket or a coupler suitably certified for Group I in accordance with IEC/EN 60079-0 and IEC/EN 60079-1, having a flameproof interface as BS 5620:1990. The plug and a socket or a coupler are bolted together by means of four, stainless steel grade 304 bolts.

**Type 5M500SB Bolted Socket** - is rated at up to 750 A, 5000 V. The socket comprises a gunmetal enclosure, incorporating a screened insulator assembly with three main contact pins, one pilot circuit contact pin, two auxiliary pins and an earth contact. The power and contact pins are fitted with grub screws for cable core connection.

The socket interface flange complies dimensionally with BS 5620:1990 and is for association with any plug suitably certified for Group I in accordance with IEC/EN 60079-0 and IEC/EN 60079-1, having a flameproof interface as BS 5620:1990. The socket and a plug are bolted together by means of four, stainless steel grade 304 bolts. The other end of the socket has a facing for mounting onto a suitable, flameproof enclosure.

**Type 5M500SCB Bolted Coupler** - is rated at up to 750 A, 5000 V. The coupler comprises a gunmetal enclosure, incorporating a screened insulator assembly with three main contact pins, one pilot circuit contact pin, two auxiliary pins and an earth contact. The enclosure consists of two, identical mirrored image halves, which are bolted together by means of four, stainless steel grade 304 bolts. The coupler is double ended, with double ended pins to allow plug in contact tubes at each end, incoming and outgoing. The power and contact pins are fitted with grub screws for cable core connection.

The coupler interface flanges comply dimensionally with BS 5620:1990 and are for association with any plug suitably certified for Group I in accordance with IEC/EN 60079-0 and IEC/EN 60079-1, having a flameproof interface as BS 5620:1990. The coupler is bolted together with each plug by means of four stainless steel grade 304 bolts.

**Variation 1** - This variation introduced the following change:

- i. The introduction of alternative sealing rings was recognised.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	17 December 2010	R21109A/00	The release of the prime certificate.
1	12 April 2011	R23004A/00	The introduction of Variation 1.

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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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**15 SPECIAL CONDITIONS FOR SAFE USE**

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.

# Certificate Annexe

Certificate Number: Sira 10ATEX1347U  
Component: Type 5M500 Bolted Plug, Socket & Coupler  
Applicant: Victor Products Limited



## Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
CA209	1 of 3	-	15 Dec 10	Type 5M500PB Bolted Plug
CA209	2 of 3	-	15 Dec 10	Type 5M500SB Bolted Socket
CA209	3 of 3	-	15 Dec 10	Type 5M500SCB Bolted Coupler
4Z216003	1 of 1	-	15 Dec 10	Cable Sealing rings

## Issue 1

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
CA209	1 of 3	1	06 Apr 11	Type 5M500PB Bolted Plug
CA209	2 of 3	1	06 Apr 11	Type 5M500SB Bolted Socket
CA209	3 of 3	1	06 Apr 11	Type 5M500SCB Bolted Coupler

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