



1 **EC-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**
Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC

3 EC-Type Examination Certificate Number : **MECS02ATEX5087U**

4 Component: **TYPE 33MK1A HALF COUPLER**

5 Manufacturer: **VICTOR PRODUCTS LIMITED**

6 Address: **Newcastle-upon-Tyne, NE27 0QF**

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

8 The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council 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 components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

00(C)0943 dated 12 March 2002

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + Amds 1 & 2

EN 50018: 2000

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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:-

 **IM 2** **EEx d I**

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 1186/05/105

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: +44(0)1298 28000 Fax: +44(0)1298 28244
internet: www.baseefa.com e-mail: baseefa.info.eecs@hsl.gov.uk



I M CLEARE
DIRECTOR
2 May 2002



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE No. MECS02ATEX5087U

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Description of Component

Type 33MK1A Half Coupler for use at 3300V, 500A (maximum) comprising a compound filled sealing box, made of cast gunmetal, fitted with a cable gland assembly for single wire armoured cable. Access for filling with compound is via two Group I stopper plugs as HSE(M) 88B5160U. The half coupler incorporates an insulator assembly with three main contact tubes and up to six pilot connectors which are crimped to the cable conductors.

There is a mounting facing at one end of the unit for connection via contact pins, a sealing ring and appropriate fasteners to any appropriately certified Group I apparatus or component having an interface to BS 3454: 1995.

VARIATION 0.1

Alternative sealing box materials comprising an alternative grade of gunmetal or:-

- 0.1.1 Aluminium bronze, or
- 0.1.2 Cast iron, or
- 0.1.3 Malleable iron or
- 0.1.4 SG cast iron.

VARIATION 0.2

Alternative cable gland assembly for use with double wire armoured cable.

VARIATION 0.3

Alternative contact tubes to allow cable connection by means of grub screws.

VARIATION 0.4

Alternative contact tubes to allow the crimped assembly with aluminium conductors.

VARIATION 0.5

Alternative back glands for use with PILC-DWA, PILC-SWA, PVC-DWA, PWA and unarmoured cables.

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Schedule of Limitations

The half coupler should not be used with equipment for which the routine pressure test exceeds 10 bar without further assessment or tests.



13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE No. MECS02ATEX5087U**

18 **Essential Health and Safety Requirements**

Essential Health & Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults	Considered as part of EN 50014 and EN 50018
1.0.3	Special checking and maintenance conditions	Manufacturer's Instructions
1.0.6	Instructions	Considered as part of EN 50014 and Manufacturer's Instructions
1.2.2	Components for incorporation or replacement	Manufacturer's Instructions
1.2.4	Dust deposits	Considered as part of EN 50014
1.2.5	Additional means of protection	Not applicable
1.2.7	Protection against other hazards	Not applicable
1.3.5	Hazards arising from pressure compensation	Not applicable
1.5	General requirements for safety devices	Not applicable
1.6.1	Manual override	Not applicable
1.6.2	Emergency shutdown	Not applicable
1.6.3	Hazards arising from power failure	Not applicable
1.6.5	Placing of warning devices as parts of equipment	Not applicable
2.0	Category M2	MECS Report No. 00(C)0621
2.1	Category 1	Not applicable
2.2.1	Category 2G	Not applicable
2.2.2	Category 2D	Not applicable
2.3	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

19 **DRAWINGS**

Number	Issue	Date	Description
CA149 Sheets 1, 2 & 3	1	8.3.02	Type 33MK1A Half Coupler

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BASEEFA List Keywords
1COUPLER



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 Supplementary EC - Type **MECS02ATEX5087U/1**
Examination Certificate Number:

4 Component: **Type 33MK1A Half Coupler**

5 Manufacturer: **Victor Products Limited**

6 Address: **New York Industrial Estate, Newcastle –upon-Tyne, NE27 0QF**

7 This supplementary certificate extends EC - Type Examination Certificate No. MECS02ATEX5092U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **1186**

Project File No. **05/0095**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number MECS02ATEX5087U/1

15 **Description of the variation to the Component**

Variation 1.1

Fitting of an additional external earth terminal.

Variation 1.2

Alternative gland fixing screw incorporating an earth terminal.

16 **Report Number**

None

17 **Schedule of Limitations**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
CA149	3	2	7/2/05	Type 33MK1A Half Coupler