



EC - TYPE EXAMINATION CERTIFICATE

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

- 3 EC - Type Examination Certificate Number: **Baseefa05ATEX0110X**
- 4 Equipment or Protective System: **TYPE 'D' TERMINAL CONNECTOR**
- 5 Manufacturer: **SYNATEL INSTRUMENTATION LTD**
- 6 Address: **Walsall Road, Norton Canes, Cannock, Staffordshire, WS11 9TB**
- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. **04(C)0521**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
prEN 61241-0: 2005 EN 61241-1: 2004
except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- 12 The marking of the equipment or protective system shall include the following :

⊕ II 1D Ex tD A20 IP66 T100°C T_{amb} -15°C to 50°C

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

Baseefa (2001) Ltd. Customer Reference No. 1057

Project File No. 04/0521

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.

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



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Schedule

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Certificate Number Baseefa05ATEX0110X

15 Description of Equipment or Protective System

The Synatel type Synatex 'D' Terminal Connector consists of a plastic tube complete with a circular terminal block and plastic cable glands. The Synatex 'D' Terminal Connector has an ingress protection rating of IP66.

The plastic connector tubes are natural in colour (white/cream) and can be moulded or machined in several material types and two different sizes:-

Moulded types:

'D3M' - 24 Across Flats x 66mm long (M20x1.5 female threads)

'D5M' - 29 Across Flats x 66mm long (M25x1.5 female threads)

Machined types:

'D3P', 'D3A', 'D3N' & 'D3T' - M30 male thread x 66mm long (M20x1.5 female threads)

'D5P', 'D5A', 'D5N' & 'D5T' - M40 male thread x 66 or 100mm long (M25x1.5 female threads)

The tube has a female threaded hole at each end for fitting a suitably certified ATEX plastic cable gland and / or plastic stopping plug that provides a minimum ingress protection rating of IP66.

The following EExe II plastic cable glands have been assessed by Baseefa as being suitable for ID use with this Synatex 'D' Terminal Connector application:

- ~ Pflitsch GmbH & Co. KG, II 2G EExe II IP66 type U59, M20 or M25 plastic cable glands to PTB02ATEX1115X
- ~ CEAG Sicherheitstechnik GmbH, II 2G/D EExe II IP66 type GHG 960 92.. P.... M20 and M25 plastic cable glands and M25male/M20female & M20male/M16female plastic reducers to PTB99ATEX3128X.
- ~ CEAG Sicherheitstechnik GmbH, II 2G/D EEx e II IP66 type GHG 960 923. P.... M16 and M20 plastic cable glands to PTB99ATEX3101X.

The circular terminal block can be a 3 way or 5 way option.

The Synatex 'D' Terminal Connector is rated at 240 Volts ac/dc and 10 Amps for 1.5mm² to 4mm² conductors.

16 Report Number

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17 Special Conditions for Safe Use

1. Connector tubes 'D3A' and 'D5A' are only suitable for use where there is a low impact risk, unless they are fitted into a stainless steel or plated steel 'L' shaped bracket that is a max of 1mm thick and approximately 50mm wide.
2. Connector tubes 'D3M' and 'D5M' are only suitable for use where there is a low impact risk.
3. Connector tubes 'D3M', 'D5M', 'D3A', 'D5A', 'D3T' and 'D5T' are not proven to be UV stable and must be protected from UV when in use.
4. Moulded Connector tubes 'D3M' and 'D5M' shall only be fitted with appropriately certified ATEX plastic cable glands and/or stopping plugs that have a maximum entry thread length of 11mm.
5. The 'D' terminal connectors shall not be used under dust layers exceeding 50mm.



6. For the Pflitsch and CEAG cable glands, only permanently wired cables may be entered. The user shall guarantee suitable clamping.
7. All Pflitsch cable glands and CEAG type GHG 960 923. P.... M16 cable gland are only suitable for use in areas with a low risk of impact.

18 Essential Health and Safety Requirements

As follows, in addition to those covered by the standards at item 9.

| Clause | Subject | Compliance |
|-----------------------|--------------------------------------|------------|
| Annex II clause 1.1.3 | Temperature index | 4.1 |
| Annex II clause 1.1.3 | Endurance to heat and cold and light | 4.1 |
| Annex II clause 1.1.3 | Resistance to light | 4.1 |

19 Drawings and Documents

| Number | Issue | Date | Description |
|------------|-------|----------|----------------------------------------------------|
| A4-300648A | 0 | 30/11/05 | Machined tube – Synatex D5/DCT2 Tube |
| A4-300649A | 0 | 30/11/05 | Machined tube – Synatex D3 Tube |
| A4-300698A | 0 | 26/01/06 | General assembly – Synatex ‘D’ Terminal Connectors |
| A4-300699A | 0 | 07/09/05 | Moulded Tube – Synatex D5M Tube |
| A4-300700A | 0 | 07/09/05 | Moulded Tube – Synatex D3M Tube |
| A4-15290A | 0 | 04/01/06 | Label |