



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Type Examination Certificate Number: **Baseefa09ATEX0232X**

4 Equipment: **Explora Range of Plug and Socket Connectors**

5 Manufacturer: **Elektron Components Ltd T/A Bulgin**

6 Address: **Melville Court, Spilsby Road, Romford, Essex, RM3 8SB**

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

8 Baseefa certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **04(C)0917**

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

EN 60079-0: 2009, EN 60079-15: 2005 and IEC 60079-31: 2009

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 is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3GD Ex nA IIC T6 Gc Ex tC IIC T85°C IP68 Dc T_{amb} -20°C to +55°C

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

Baseefa Customer Reference No. **5336**

Project File No. **04/0917**

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

A handwritten signature in blue ink, appearing to read "R S Sinclair".

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

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Schedule

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Certificate Number Baseefa09ATEX0232X

15 Description of Equipment

The Explora Range of Plug and Socket Connectors consist of the Flex Connector, Flex In-Line Connector, Chassis Flex Connector and Flange Connector. All are available in either 2, 3, 4, 5, 7 and 10 pin connector versions with the following ratings:

No. of pins	Max. Current (A)
2	18
3	18
4	18
5	18
7	16
10	10

The Flex Connector can be connected to either the In-Line, Chassis or Flange Connector. All consist of moulded plastic bodies into which are fitted pin and socket carriers to which the conductors are connected. The Flex Connector has a rotating collar with a female thread to secure it to either the In-line, Chassis or Flange connector all of which have a matching male thread moulded into their body. Adequate sealing of the connection is ensured by an O-ring retained on the Flex Connector.

Sealing of the in-coming cable on the Flex Connector and In-line Connector is provided by compression of a grommet in the same way as a compression cable gland. A gasket is provided to allow sealing between the Chassis and Flange connectors and the enclosures on to which they are mounted. In each case the plug and socket connection provides ingress protection equivalent to IP68 (10m of water for 2 weeks). The ingress protection rating of the Chassis and Flange connection depends upon the enclosure into which they are mounted but the gaskets provided are capable of maintaining an ingress protection rating of at least IP68 (10m of water for 2 weeks).

Screw on caps are provided to seal separated connectors.

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17 Special Conditions for Safe Use

1. The connectors must be de-energised before separation.
2. The screw on caps must be fitted to both connectors immediately after separation.
3. The ingress protection provided by the Chassis and Flange Connectors depends on the IP rating of the enclosure into which they are fitted and correct installation in accordance with the manufacturer's instructions.
4. Incoming conductors must be stripped in accordance with the manufacturer's instructions and secured with a tightening torque of 1Nm.



18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
EXP-0911/SCHED	1	16/12/09	Flex connector GA
EXP-0921/SCHED	1	16/12/09	Flex in-line connector GA
EXP-0931/SCHED	1	16/12/09	Chassis flex connector GA
EXP-0941/SCHED	1	16/12/09	Flange connector GA
EXP-0990/SCHED	1	16/12/09	Heavy duty cap GA
EXP-0991/SCHED	1	16/12/09	Heavy duty cap GA
EXP-0992/SCHED	1	16/12/09	Heavy duty cap GA
EXP-A911/SCHED	1	16/12/09	Flex connector GA
EXP-A921/SCHED	1	16/12/09	Flex in-line connector GA
EXSA3472	1	03/11/09	2 pin carrier assembly
EXSA3473	1	03/11/09	3 pin carrier assembly
EXSA3474	1	03/11/09	4 pin carrier assembly
EXSA3475	1	04/11/09	5 pin carrier assembly
EXSA3476	1	04/11/09	7 pin carrier assembly
EXSA3478	1	04/11/09	10 pin carrier assembly
EXSA3467	1	03/11/09	2 socket carrier assembly
EXSA3468	1	03/11/09	3 socket carrier assembly
EXSA3469	1	03/11/09	4 socket carrier assembly
EXSA3470	1	04/11/09	5 socket carrier assembly
EXSA3471	1	04/11/09	7 socket carrier assembly
EXSA3477	1	04/11/09	10 socket carrier assembly
SA3266	5	10/10/01	Pin Assembly
SA3267	5	02/09/01	Socket assembly
REF 11791	5	02/09/09	Engraving Detail
REF 11792	2	25/05/00	Engraving Detail
REF 11794	4	02/09/09	Engraving Detail
REF 11796	2	26/05/00	Engraving Detail
REF 12145	1	02/09/09	Engraving Detail
REF 11805	4	02/09/09	Engraving Detail
REF 11802	3	02/09/09	Engraving Detail
REF 11798	5	02/09/09	Engraving Detail
REF 11800	4	03/09/09	Engraving Detail
REF 12142	1	03/09/09	Engraving Detail