



Epsilon

1 **EC - Type Examination Certificate**

2 Equipment intended for use in potentially explosive atmospheres

3 Certificate Number: EPSILON 07 ATEX 2258X

4 Equipment: Argus Exia Switch

5 Manufacturer: Pyropress Engineering Company Ltd.

6 Address: Bell Close,
Plympton, Plymouth, Devon,
PL7 4JH, UK

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

8 Epsilon, Notified Body number 1712 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 design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the directive

The examination and test results are recorded in confidential report no RETS(A)2529/A/1/1

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

BS EN 60079-0:2006, BS EN 60079-11:2007, BS EN 60079-26:2004

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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.




On behalf of Epsilon


S D'Henin
Director

Date: 19 September 2007



12 The marking of the equipment shall include the following:

Model Argus (switch only)
II 1G Ex ia IIC T6 (-50°C to +78°C)
 II 1G Ex ia IIC T5 (-50°C to +93°C)
II 1G Ex ia IIC T4 (-50°C to +128°C)

Model Argus/R
 II 1G Ex ia IIC T5 (-50°C to +72°C)
II 1G Ex ia IIC T4 (-50°C to +122°C)

13 **Schedule**

14 Certificate Number: EPSILON 07 ATEX 2258X

15 Description of Equipment or protective system

The Argus range consists of a single or dual switch which is mounted inside an enclosure for increased functionality and protection. The housing is manufactured from Stainless Steel, Aluminium or Polyphenylene sulphide and provides suitable ingress protection for the intended application. The Argus range is certified to be installed in a Zone 0 environment, when supplied from an approved Intrinsically Safe Interface located in the safe area. Some model variants are fitted with signal conditioning resistors.

Intrinsically Safe Specifications:

U_i: 28Vdc
I_i: 93mA
P_i: 0.65W
C_i: 0 nF
L_i: 0mH

16 Descriptive Documents

16.1 Report No: RETS(A)2529/A/1

16.2 Drawings:

Number	Sheet	Date	Issue	Description
1271-A1	1 of 1	10/09/2007	C	Certification Drawing Argus Exia Switch.
1274-A2	1 of 1	10/09/2007	A	Micro switch with resistors Argus Flying lead
1272-A2	1 of 1	10/09/2007	B	Micro switch with resistors Argus DIN Plug
1269-A4	1 of 1	13/08/2007	A	Label-IS with Resistors Argus.
1001-A4	1 of 1	22/09/2004	A	Printed circuit board Argus with M20 conduit
A4-M-9991	1 of 1	18/08/2004	A	Microswitch Assembly Argus with M20 Conduit
A4-M-9828	1 of 1	12/03/2003	C	Resistor pcb board



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CH1 6DD

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17 Conditions of Certification

17.1 Special Conditions for Safe Use (Category 1, Zone 0)

Aluminium may only be used when the ignition hazard assessment shows that there is no risk of ignition from incendive, impact or abrasion sparks.

17.2 Conditions for Use
None

18 Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by section 9:
are covered by manufacturer's instructions.

The manufacturer shall inform the notified body of any modifications to the design of the product described by this schedule

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Supplement to EC-Type Examination Certificate

Certificate Number: 07 ATEX 2258X Dated: 19 September 2007
Variation Number: V1
Report number: 09041583 Dated: 27 July 2009

Variation Detail:

1) To include the following additional versions

- a) Single V4 microswitch with flying lead.
- b) Double V4 microswitch with flying lead.
- c) Single V4 microswitch with Cable Gland.
- d) Double V4 microswitch with Cable Gland
- e) Single V4 microswitch with Cable Bushing.
- f) Double V4 microswitch with Cable Bushing.
- g) Single MS100 microswitch with Cable Bushing.
- h) Reed level switch attached to a din plug.
- i) Reed level switch attached to PCB board with screw terminals

2) To upgrade to the latest revision of BS EN60079-26:2007

The coding will now be as listed below to include an Equipment protection level EPL.

Model Argus (switch only)



- II 1G Ga Ex ia IIC T6 (-50°C to +78°C)
- II 1G Ga Ex ia IIC T5 (-50°C to +93°C)
- II 1G Ga Ex ia IIC T4 (-50°C to +128°C)

Model Argus/R



- II 1G Ga Ex ia IIC T5 (-50°C to +72°C)
- II 1G Ga Ex ia IIC T4 (-50°C to +122°C)



On behalf of Epsilon

S D'Henin
Certification Manager

Re-issued Date: 9 September 2009

Certificate 07 ATEX 2258X Variation Number: 01

This variation may only be reproduced in its entirety and without any change, schedule included.
The variation is only valid when it carries an original signature and holographic security label.
For help or assistance relating to this variation, contact cs@epsilonex.com.

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Certificate Number: 07 ATEX 2258X

Dated: 19 September 2007

Variation Number: V1

Descriptive Documents: * denotes Variation 1 documents.

Number	Sheet	Date	Issue	Description
1271-A1	1 of 1*	16/07/2009	E	Certification Drawing Argus Exia Switch.
1274-A2	1 of 1	10/09/2007	A	Micro switch with resistors Argus Flying lead
1272-A2	1 of 1	10/09/2007	B	Micro switch with resistors Argus DIN Plug
1001-A4	1 of 1	22/09/2004	A	Printed circuit board Argus with M20 conduit
A4-M-9991	1 of 1	10/03/2005	C	Microswitch Assembly Argus with M20 Conduit
A4-M-9828	1 of 1	12/03/2003	C	Resistor pcb board
1353-A3	1 of 1	16/07/2009	A	Exia Label Certification Argus

Additional Conditions of Certification:

No additional requirements

Additional Special Conditions for Safe Use:

No additional requirements