



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 16.0124X issue No.:0 Certificate history: .....

Status: Current

Date of Issue: 2016-12-08 Page 1 of 3

Applicant: **Longvale Limited**  
Lancaster Park  
Needwood  
Burton-upon-Trent  
Staffordshire  
DE13 9PD  
United Kingdom

Equipment: Euroswitch FL-A and LS-A  
*Optional accessory:*

Type of Protection: Intrinsic Safety

Marking: Ex ia IIC T4 Ga (-60°C ≤ Ta +125°C)  
Ex ia IIIC T135°C IP66/67 Da (-60°C ≤ Ta +125°C)  
or  
Ex ia IIC T6 Ga (-20°C ≤ Ta +80°C)  
Ex ia IIIC T85°C IP66/67 Da (-20°C ≤ Ta +80°C)

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited  
Rockhead Business Park  
Staden Lane  
Buxton, Derbyshire, SK17 9RZ  
United Kingdom





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Manufacturer: **Longvale Limited**  
Lancaster Park  
Needwood  
Burton-upon-Trent  
Staffordshire  
DE13 9PD  
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements

Edition: 6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

GB/BAS/ExTR16.0339/00

Quality Assessment Report:

GB/SIR/QAR07.0013/07



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Euroswitch FL-A and LS-A is designed for the measurement of flow or level respectively.

The units are manufactured in stainless steel and comprise a switch body secured into a terminal head enclosure with a threaded cover. The switch body may be of fixed orientation (Type WL), or have a rotatable head (Type WLR). A cable entry boss is welded to the terminal head to providing a single threaded M20 or 1/2" NPT entry to accommodate a suitably certified cable gland.

Alternatively a single M20 or 1/2" NPT entry may be provided in the threaded cover of the fixed unit (Type W).

In all case the cover is retained in position by means of a grub screw.

The terminal head houses up to 7 terminals (including 1 earth connection) depending on the switch type. These terminals are mounted on to a printed circuit board, and are for the external connection to a separately certified intrinsically safe circuit.

The switch body contains up to 2 DPDT micro switches, which are activated via a magnet operated lever assembly in the lower half of the switch body. The switch is secured into the vessel/pipework via a BSPT thread on this body section.

Each set of switch contacts may be supplied from a separately certified intrinsically safe source and individually they have the following terminal parameters:

$U_i = 30V$

$I_i = 250mA$

$P_i = 1.3W$

See Annex for part numbering options.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1 External earth bonding of the stainless steel enclosure may be achieved via the external mounting thread and/or the threaded cable entry.

2 Metallic switches may pose an electrostatic risk if not earthed. This should be taken into account during installation.

3 Where a sensor has two sets of switching contacts, both sets of switching contacts may be considered to be separate intrinsically safe circuits. Where the two circuits are separate intrinsically safe circuits, the user shall ensure segregation of the external cabling between the two circuits is maintained during installation and either type A or type B cable as defined in clause 9.5.2 & 9.5.3 of IEC 60079-25:2010 is used.

4 It is the responsibility of the installation engineer to ensure that suitably rated cable and cable glands are used to install this equipment.

5 Only fasteners of type M4 x 0.7 6g socket set screw DIN913 type 316 stainless steel may be used for preventing rotation of the lid and/or WLR connection head in the installed position.

6 The process medium must not exceed the ambient temperature range of the equipment.



PART NUMBERING OPTIONS

