

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**Directive 2014/34/EU**

3 Supplementary EU - Type **Baseefa16ATEX0172X/1**  
Examination Certificate Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: **Euroswitch FL-A and LS-A**

5 Manufacturer: **Longvale Limited**

6 Address: **Lancaster Park, Needwood, Burton-upon-Trent, Staffordshire,  
DE13 9PD**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa16ATEX0172X** to apply to products 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.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **5323**

Project File No. **19/0708**

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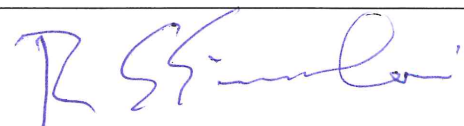
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R S SINCLAIR  
TECHNICAL MANAGER  
On behalf of SGS Baseefa Limited

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## Schedule

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Certificate Number Baseefa16ATEX0172X/1

### 15 Description of the variation to the Product

#### Variation 1.1

To allow the part number matrix to be amended to a new format. The Description of Product is re-listed in full below and incorporates the new Part Number Matrix.

#### Description of Product

The Euroswitch FL-A and LS-A are 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 cases 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:

$$U_i = 30V$$

$$I_i = 250mA$$

$$P_i = 1.3W$$

**Flow Switch Ex ia - Part Number Matrix**

		FL	-	X	X	X	X	-	X	-	X	-	X	-	X
Series	Flow Switch	-	A												
Certification	IECEX & ATEX Markings	-		Z											
	Multiple Certification Markings (Exd only)	-		E											
	Other regional Exia certification	-		F-Z											
Housing Material	Stainless Steel 316L	-			2										
Certified Temp.	T6/T85°C = -20°C to +80°C	-				1									
	T4/T135°C = -60°C to +125°C	-				2									
Tee Connection	1/2" BSPT (NPT optional)	-						1							
	3/4" BSPT (NPT optional)	-						2							
	1" BSPT (NPT optional)	-						3							
	1-1/4" BSPT (NPT optional)	-						4							
	1-1/2" BSPT (NPT optional)	-						5							
	2" BSPT (NPT optional)	-						6							
	2-1/2" BSPT (NPT optional)	-						7							
Tee Options	No Tee Supplied (Tee connection must be a 1)	-								0					
	Supplied with Stainless Steel 316 Equal Tee (as per Tee Connection)	-								2					
Contact Type	SPDT/SPCO	-													
	DPDT/DPCO	-										D			
	Silver Alloy (Standard)	-													
	Gold Flashed	-											AU		
Connection Options	Wireable Connection Head - Top Entry 1/2" NPT	-													W-NPT
	Wireable Connection Head - Side Entry 1/2" NPT	-													WL-NPT
	Wireable Connection Head - Side Entry Rotatable 1/2" NPT	-													WLR-NPT
	Wireable Connection Head - Top Entry M20x1.5	-													W-M20
	Wireable Connection Head - Side Entry M20x1.5	-													WL-M20
	Wireable Connection Head - Side Entry Rotatable M20x1.5	-													WLR-M20
	Customer specific (not affecting certification)	-													

**Level Switch Ex ia - Part Number Matrix**

		LS	-	X	X	X	X	-	X	-	X	-	X	-	X
Series	Level Switch - Horizontal Mount	-	A												
Certification	IECEX & ATEX Markings	-		Z											
	Multiple Certification Markings (Exd only)	-		E											
	Other regional Exd certification	-		F-Z											
Housing Material	Stainless Steel 316L	-			2										
Certified Temp.	T6/T85°C = -20°C to +80°C	-				1									
	T4/T135°C = -60°C to +125°C	-				2									
Process Connection	1/2" BSPT (NPT optional)	-						1							
	3/4" BSPT (NPT optional)	-						2							
	1" BSPT (NPT optional)	-						3							
	1-1/4" BSPT (NPT optional)	-						4							
	1-1/2" BSPT (NPT optional)	-						5							
	2" BSPT (NPT optional)	-						6							
	2-1/2" BSPT (NPT optional)	-						7							
Float Options	Supplied with 316SS cylindrical float (4" / 101mm Insertion Length)	-								1					
	Supplied with 316SS cylindrical float (5" / 127mm Insertion Length)	-								2					
	Supplied with 316SS cylindrical float (6-1/2" / 165mm Insertion Length)	-								3					
	Custom Insertion Length - 6 5/8" to 14" / 168 to 356mm	-									C				
Contact Type	SPDT/SPCO	-													
	DPDT/DPCO	-										D			
	Silver Alloy (Standard)	-													
	Gold Flashed	-											AU		
Connection Options	Wireable Connection Head - Top Entry 1/2" NPT	-													W-NPT
	Wireable Connection Head - Side Entry 1/2" NPT	-													WL-NPT
	Wireable Connection Head - Side Entry Rotatable 1/2" NPT	-													WLR-NPT
	Wireable Connection Head - Top Entry M20x1.5	-													W-M20
	Wireable Connection Head - Side Entry M20x1.5	-													WL-M20
	Wireable Connection Head - Side Entry Rotatable M20x1.5	-													WLR-M20
	Customer specific (not affecting certification)	-													

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**17 Specific Conditions of Use**

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**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
ENG011	1	B	17-12-2019	Marking for Exia Euroswitch Flow/Level Switch
SWM11	1-2	A	12/12/2019	Ex ia - parts number matrix

These drawings are common to, and held with, IECEx BAS 16.0124X.