

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination **BAS21UKEX0758X Issue 3**
Certificate Number:

4 Product: **Euroswitch Flow Switch and Level Switch**

5 Manufacturer: **Longvale Limited**

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

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product 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 Schedule 1 of the Regulations.

8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the change of entity to SGS United Kingdom Limited. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-26:2015 EN 60079-31:2014 EN ISO 80079-36:2016

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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 **II 1/2 GD Ex db h IIC T6 Ga/Gb (Ta -20°C to +70°C)***

Ex h tb IIIC T85°C Da/Db (Ta -20°C to +70°C)* IP66/67/68

*** Alternative marking T4/T135°C (Ta -60°C to +120°C)**

SGS Customer Reference No. **5323**

Project File No. **25/0276**

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0191



Authorised Signatory

13

Schedule

14

Certificate Number BAS21UKEX0758X – Issue 3

15 Description of Product

The Euroswitch Flow Switch (FL Series) and Level Switch (LS Series) are designed for the measurement of flow or level respectively, and may interface with an area requiring the protection level of Ga.

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 embedded to the terminal head to providing a single threaded M20 or 1/2" NPT entry to accommodate a suitably certified cable gland.

The head may alternatively be manufactured from aluminium.

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 of a suitably rated cable.

The switch body contains a up to 2 DPDT micro switches, which are activated via a magnet operated lever assembly in the lower half of the switch body (EPL Gb), and provides the interface across a barrier wall between flow paddle or float assembly (EPL Ga). The switch is secured into the vessel/pipework via a BSPT thread on this body section.

The switches have a maximum switching current of 4A.

	XX	-	X	X	X	X	-	X	-	X	-	X	-	X	-	X
Flow Switch	FL	-	A				-		-		-		-		-	
Level Switch	LS	-	A				-		-		-		-		-	
IECE/ATEX/UKEX Markings		-		3			-		-		-		-		-	
IECE/ATEX/UKEX & UL/CSA Markings		-		B			-		-		-		-		-	
Multiple Certification Markings (Ex db/tb only)		-		D			-		-		-		-		-	
Other Regional Ex db/tb Certification Markings		-		F-Z			-		-		-		-		-	
Stainless Steel 316L Housing		-			2		-		-		-		-		-	
T6/T85°C = -20°C to +70°C		-				1	-		-		-		-		-	
T4/T135°C = -60°C to +120°C		-				2	-		-		-		-		-	
1/2" BSPT (# = N for NPT option)		-					-	1	#	-	-		-		-	
3/4" BSPT (# = N for NPT option)		-					-	2	#	-	-		-		-	
1" BSPT (# = N for NPT option)		-					-	3	#	-	-		-		-	
1-1/4" BSPT (# = N for NPT option)		-					-	4	#	-	-		-		-	
1-1/2" BSPT (# = N for NPT option)		-					-	5	#	-	-		-		-	
2" BSPT (# = N for NPT option)		-					-	6	#	-	-		-		-	
2-1/2" BSPT (# = N for NPT option)		-					-	7	#	-	-		-		-	
No Tee Supplied (Process connection must be a 1)	FL Only	-					-		-	0	-		-		-	
Supplied with Stainless Steel 316 Equal Tee (as per Process Connection)	FL Only	-					-		-	2	-		-		-	
Supplied with 316SS cylindrical float (4" / 101mm Insertion Length)	LS Only	-					-		-	1	-		-		-	
Supplied with 316SS cylindrical float (5" / 127mm Insertion Length)	LS Only	-					-		-	2	-		-		-	
Supplied with 316SS cylindrical float (6 -1/2" / 165mm Insertion Length)	LS Only	-					-		-	3	-		-		-	
Custom Insertion Length - 6 5/8" to 14" / 168 to 356mm	LS Only	-					-		-	C..	-		-		-	
SPDT/SPCO		-					-		-		-		-		-	
DPDT/DPCO		-					-		-		-	D			-	
Silver Alloy (Standard)		-					-		-		-		-		-	
Gold Flashed		-					-		-		-	AU			-	
Back/Top Entry Wireable Terminal Head		-					-		-		-		-	W		-
Side Entry Wireable Terminal Head		-					-		-		-		-	WL		-
Side Entry Wireable Terminal Head - Rotatable		-					-		-		-		-	WLR		-
Twin Side Entry Wireable Terminal Head - Rotatable		-					-		-		-		-	WLRT		-
Twin Side (90°) Entry Wireable Terminal Head - Rotatable		-					-		-		-		-	WLRT90		-
Triple Side Entry Wireable Terminal Head - Rotatable		-					-		-		-		-	WLRT3		-
Back/Top Entry Wireable Terminal Head - Aluminium		-					-		-		-		-	WA		-
Side Entry Wireable Terminal Head - Aluminium		-					-		-		-		-	WLA		-
Side Entry Wireable Terminal Head - Rotatable - Aluminium		-					-		-		-		-	WLRA		-
Twin Side Entry Wireable Terminal Head - Aluminium		-					-		-		-		-	WLTA		-
Twin Side Entry Wireable Terminal Head - Rotatable - Aluminium		-					-		-		-		-	WLRTA		-
1/2" NPT Conduit Entry		-					-		-		-		-			NPT
M20x1.5 Conduit Entry		-					-		-		-		-			M20
Customer Specific (Not Affecting Certification)		-					-		-		-		-			(X...)

16 Report Number

See Item 20 – Certificate History

17 Specific Conditions of Use

1. External earth bonding of the stainless steel enclosure may be achieved via the external mounting thread and/or the threaded cable entry.
2. When used in dust atmospheres the separately certified cable gland arrangement shall maintain the IP6X rating of the enclosure.
3. The flame paths must not be repaired.
4. It is the responsibility of the installation engineer to ensure that the IP rating of IP66/67/68 of the equipment is maintained between the hazardous area requiring EPL Ga and the less hazardous area.
5. It is the responsibility of the installation engineer to ensure that suitably rated cable and cable glands are used to install this equipment.
6. Only fasteners of type M4 x 0.7 6g and M3 x 0.5 6g socket set screw DIN913 type 316 stainless steel may be used.
7. The process medium must not exceed the ambient temperature range of the equipment.
8. SGS has not assessed the equipment for use in external pressures outside of standard atmospheric conditions – 80kPa (0.8 bar) to 110kPa (1.1 bar).
9. When used for Group III applications the non-metallic coating of the aluminium head version presents a potential electrostatic charging hazard – see instructions

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21(1)	External effects
21(2)	Aggressive substances, etc.

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
*ENG010		E	13-10-2025	Marking for Ex d Euroswitch Flow/Level Switch

For all other drawings refer to Baseefa16ATEX0049X latest issue

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0758X	3 December 2021	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014, EN 60079-26:2015 and EN ISO 80079-36:2016 is documented in Test Report GB/BAS/ExTR21.0176/00.

Certificate No.	Date	Comments
BAS21UKEX0758X - Issue 1	25 July 2023	2.1 To accommodate a one-piece construction against the currently welded construction 2.2 To revise flame path diameter tolerance, to reduce thickness of partition wall and other minor changes in FL-101 switch body. SGS certification report GB/SGS/ExTR23.0031/00 refers.
BAS21UKEX0758X - Issue 2	24 July 2025	To consolidate the existing schedule drawings into a smaller common set of schedule drawings, addition of new optional earthing configuration and minor drawing changes not affecting certification. Certification report GB/SGS/ExTR25.0079/00 refers.
BAS21UKEX0758X - Issue 3	13 November 2025	To Introduce a new aluminium head and lid option and to allow an alternate flame path arrangement between head and body tube. To update the marking label drawing. Certification report GB/SGS/ExTR25.0096/00 refers.
For drawings applicable to each issue, see original of that issue.		