

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate Number: **Baseefa16ATEX0049X – Issue 5**

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 Flow Switch and Level Switch**

5 Manufacturer: **Longvale Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa16ATEX0049X** to apply to product 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 Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See certificate history.**

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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive 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 Fimko Oy Customer Reference No. **5323**

Project File No. **25/0276**

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13

Schedule

14

Certificate Number Baseefa16ATEX0049X – Issue 5

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 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
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
SD017		B	09/09/2025	Lid – Cast
GA-082		B	12/09/2025	FL/LS W/ 26mm Entry Alu Head
SD015-1		B	12/09/2025	Head – Cast Aluminium
ENG010		E	13-10-2025	Marking for Ex d Euroswitch Flow/Level Switch
SWM10		C	25/09/2025	FL/LS Flow/Level Switch Ex db/tb Part Number Matrix

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
70-512		A	08/07/2022	Side Entry Boss – M20
70-515		A	08/07/2022	Side Entry Boss – 1/2" NPT

Number	Sheet	Issue	Date	Description
GA-096		A	28/01/2025	FL/LS/PS SWITCH – WIREABLE
SD011-2		A	08/10/2024	Head – 26mm Bottom Entry
SD012-1		A2	05/11/2024	Body
SD013		A	5/12/2024	Lid
SD020-1		A	23/01/2024	PCBs
SD020-2		A	23/01/2024	PCBs
SD022-1		A	14/05/2024	ES Reed Switch
SD022-2		A	14/05/2024	ES Reed Switch
SD023		A	23/01/2024	Leads
SD026		A	01/10/2024	Non Metallic Components
SD028		A	23/01/2024	Microswitch Assembly

20 Certificate History

Certificate No.	Date	Comments
Baseefa16ATEX0049X	5 April 2016	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-26:2015, EN 60079-31:2014 and EN 13463-1:2009 is documented in Test Report No. GB/BAS/ExTR16.0069/00.
Baseefa16ATEX0049X/1	9 January 2020	To allow the part number matrix to be amended to a new format in the description of the product. SGS Baseefa certification report GB/BAS/ExTR19.0344/00 refers.
Baseefa16ATEX0049X Issue 2	3 December 2021	To assess the equipment against EN IEC 60079-0:2018 and EN ISO 80079-36:2016. To assess the equipment for the degree of protection IP68 at 30m for 24 hours. To amend specific condition of use number 6. SGS Baseefa certification report GB/BAS/ExTR21.0176/00 refers.
Baseefa16ATEX0049X Issue 3	28 June 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.
Baseefa16ATEX0049X Issue 4	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.
Baseefa16ATEX0049X Issue 5	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.		