

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 **Baseefa14ATEX0119X – Issue 12**
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 Proximity Switches – Type No.s suffixed W (Wireable)**

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. **Baseefa14ATEX0119X** 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 60079-31:2014

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 2 GD Ex db IIC T6* Gb, Ex tb IIIC T85°C* Db (Ta -20°C to +70°C)* IP66/67/68
*** alternative marking of T4/T135°C (Ta -60°C to +120°C) is permitted – see schedule**

SGS Fimko Oy Customer Reference No. **5323**

Project File No. **25/0276**

This document is issued by the Company subject to their General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of their intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Fimko Oy

Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 9 696 361

www.sgs.com

Business ID 0634247-4 Member of the SGS
Group (SGS SA)



Mikko Välimäki
SGS Fimko Oy

13

Schedule

14

Certificate Number Baseefa14ATEX0119X – Issue 12

15 Description of Product

The Euroswitch Proximity Switches (c/w terminal connection head) are manufactured in stainless steel and comprise a switch tube with a circular terminal enclosure on the top. The enclosure has a threaded cover that is locked with a socket head grub screw. In this form the ES -*** type designation is suffixed W.

The head may alternatively be manufactured from aluminium.

A cable entry boss threaded M20 or 1/2" NPT to accommodate a suitably certified cable gland is provided in the enclosure cover (suffix W). Alternatively a threaded entry boss may be provided on the side of the enclosure (suffix WL).

The unit is available with a range of switch tubes (55mm or 72mm long) which have an external M18 x1, or 5/8-18 UNF, thread for mounting/positioning the unit. These switch tubes contain a potted reed switch assembly to be operated by proximity to an external magnet. The reed switches may be provided in 20W, 60W ratings or alternatively 1A at 24Vdc or 0.9A at 110Vac.

Alternatively the unit is available in two flange mount options, designated CYL-B and CYL-C

The terminal enclosure houses up to seven terminals for external connection (including earth) mounted to a printed circuit board.

An alternative construction which allows the terminal head to rotate relative to the switch tube, the rotation is then locked with a M4 socket head grub screw. In this form the type designation is suffixed WLR.

In addition to the standard length body tubes as noted above, the type WLR units may optionally be fitted with a 120mm long switch tube with an external 3/4-16 UNF thread and a plain probe type end.

An alternative internal switching assembly incorporating an integral magnet and designed to operate on proximity to ferrous metals.

Units incorporating this ferrous switching have a FS-*** type designation (c/w the W suffix options as detailed above).

Alternative Temperature Class marking of T4 & T135°C at increased maximum ambient temperatures of up to 120°C, together with an optional reduction in the minimum ambient temperature down to -60°C for all of the above models.

Type ES-VDHA-450, 700 or 1035 Differential Pressure Switches

These units are based on the 20W rated Type ES-****- WLR Proximity Switches, with a magnetically linked differential pressure switch module replacing the threaded switch tube.

The pressure module may be rated up to 450 bar, 700 bar or 1035 bar as reflected in the designation coding, and are manufactured in either stainless steel (450 & 700 options) or titanium (1035 option).

The enclosures are certified IP66, IP67 and IP68 to a depth of 30 meters for 24 hours.

When fitted with the LFM circuits the equipment shall be marked:

Ex db IIC T6* Gb

Ex tb IIIC T85°C* Db (Ta -20°C to +50°C)* IP66/67/68

*Alternative marking of T4/T135°C (Ta -60°C to +100°C)

	Switch Type/Description	XX	-	X	X	X	X	-	X
Range	MagnaProx / Euroswitch	ES	-					-	
	FerroProx / FerroSwitch	FS	-					-	
Housing Style -MagnaProx	M18 x 1 Cylindrical Housing	ES only	-	3				-	
	M18 x 1 Cylindrical Housing	ES only	-	4				-	
	5/8"-18 UNF Cylindrical Housing	ES only	-	5				-	
	M18 x 1 Cylindrical Housing	ES only	-	6				-	
	5/8"-18 UNF Cylindrical Housing	ES only	-	7				-	
	M18 x 1 Cylindrical Housing	ES only	-	8				-	
Housing Style -FerroProx	M18 x 1 Cylindrical Housing	FS only	-	A				-	
	5/8"-18 UNF Cylindrical Housing	FS only	-	B				-	
	M18 x 1 Cylindrical Housing	FS only	-	C				-	
	5/8"-18 UNF Cylindrical Housing	FS only	-	D				-	
	M18 x 1 Cylindrical Housing	FS only	-	E				-	
	3/4"-16 UNF Cylindrical Housing	FS only	-	F				-	
	M20 x 1.5 Cylindrical Housing - 250mm Long	FS only	-	F				-	X317/X442
	1"-14 UNS Cylindrical Housing	FS only	-	R				-	
	Flange Mount Housing	FS only	-	CYL-B				-	
Approval	IECEX & ATEX & UKEX Markings		-		3			-	
	ATEX/IECEX/UKEX & UL/CSA Markings		-		B			-	
	Multiple Certification Markings (Ex db/tb only)		-		D			-	
	Other Regional Certification Markings (Ex db/tb only)		-		F - Z			-	
Material	Stainless Steel Housing		-			2		-	
Temperature	T6 Temperature Class		-				1	-	
	T4/T6 Temperature Class		-				2	-	
Options (may be combined e.g. -D-E)	1A Switching	ES only	-					-	A
	20W Switching	ES only	-					-	B
	3A Switching - Normally Open	ES only	-					-	C
	DPDT Contacts		-					-	D
	Latching/Bi-stable	ES only	-					-	F
	3A Switching - SPDT Tungsten Contacts	ES only	-					-	H
	Line Fault Monitoring (NAMUR Output) - Normally Open		-					-	LFO
	Line Fault Monitoring (NAMUR Output) - Normally Closed		-					-	LFC
	5,000 psi Pressure Resistant End Cap		-					-	5K
	10,000 psi Pressure Resistant End Cap		-					-	10K
	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
	Alternative Conduit Entry Thread - 1/2" NPT		-					-	NPT
	Alternative Conduit Entry Thread - M20x1.5		-					-	M20
Customer Specific (Not Affecting Certification)		-					-	(X...)	
Customer Specials	Differential pressure switch - Stainless Steel	ES only	-	VDHA	-	450			
	Differential pressure switch - Stainless Steel	ES only	-	VDHA	-	700			
	Differential pressure switch - Titanium	ES only	-	VDHA	-	1035			

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. The 1035 bar rated pressure sensing/switching element is manufactured from titanium and must be physically protected from impact and friction (ignition hazard).
5. SGS has not assessed the equipment for external pressures outside of standard atmospheric conditions – 80kPa (0.8 bar) to 110kPa (1.1 bar).
6. 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-022-2		A	31/06/2025	FS/ES Wireable GA – W/WL/WLR/WLRT (Alternative Head/Body Interface)
GA-080		B	11/09/2025	FS/ES W/ 16mm Entry Alu Head
GA-081		B	12/09/2025	FS/ES W/ 26mm Entry Alu Head
SD011-4		A	10/06/2025	Head – 16mm Bottom Entry (Plain Spigot Joint)
SD015-1		B	12/09/2025	Head – Cast Aluminium
SD016-1		B	11/09/2025	Body for Cast Head-Spigot
SWM4		C	25/09/2025	ES/FS Ex db/tb Wireable 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
ENG004		8	01/11/23	Sample Marking for IECEx/Exd Wireable Euroswitch
GA-001		D	16/10/2024	FS/ES-*-D-W/WL/WLR* ASSY
GA-022		E	27/08/2024	FS/ES WIREABLE GA – W/WL/WLR
GA-027		D	27/08/2024	FS/ES WIREABLE GA: WLR*
GA-076		A	14/05/2024	ES or FS-*-W/WL ASSY
GA-078		A	14/05/2024	ES-VDHA & ESI-VDHA
SD011-1		A	14/05/2024	Head – 16mm Bottom Entry
SD011-2		A	08/10/2024	Head – 26mm Bottom Entry
SD012-1		A2	05/11/2024	Body
SD012-2		A2	05/11/2024	Body
SD013		A	5/12/2024	Lid
SD014-1		A	5/12/2024	‘W’ & ‘WL’ Switch Body
SD020-1		A	23/01/2024	PCBs
SD020-2		A	23/01/2024	PCBs
SD021-1		A	05/11/2024	Ferros witch Cartridge
SD021-2		A	05/11/2024	Ferros witch Cartridge LMF FS SPDT/DPDT
SD021-3		A	05/11/2024	Ferros witch Cartridge
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

20 Certificate History

Certificate No.	Date	Comments
Baseefa14ATEX0119X	23 July 2014	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012, EN 60079-1:2007 and EN 60079-31:2009 is recorded in Test Report GB/BAS/ExTR14/0119/00. Project File 14/0336
Baseefa14ATEX0119X/1	7 October 2014	To add the new model of Type ES-VDHA-450, 700 or 1035 Differential Switches. This issue also permits an alternative internal reed switch rated 1A at 24Vdc or 0.9A at 110Vac. Two addition conditions of use were applied to the certificate with this variation. The associated assessment is recorded in Test Report GB/BAS/ExTR14/0275/00. Project File 14/0748
Baseefa14ATEX0119X/2	21 January 2016	To permit the change of the cover thread from 1mm to 1.5mm, several minor drawing changes and to introduce a part numbering matrix. The associated assessment is recorded in Test Report GB/BAS/ExTR15.0353/00. Project File 15/0797.
Baseefa14ATEX0119X/3	9 August 2016	To permit selected switch types to be additionally marked with the Ex i markings covered by other certificates with an updated parts matrix. The associated assessment is recorded in Test Report GB/BAS/ExTR16.0201/00. Project File 16/0427.

Certificate No.	Date	Comments
Baseefa14ATEX0119X Issue 4	20 September 2016	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and permits the up issue of several associated drawings with no material changes. This issue also confirms compliance with EN 60079-0:2012+A11:2013. The associated assessment is recorded in Test Report GB/BAS/ExTR16.0252/00. Project File 16/0679.
Baseefa14ATEX0119X Issue 5	2 February 2018	To allow the option of a DPDT (Double Pole Double Throw) variant To allow the option to fit an external earth assembly To allow the option of twin side entries, 180° opposite from one another To allow the option of screw terminals To allow some drawings to be renumbered and/or retitled To allow an update to the part number matrix. Update to the latest standards The associated assessment is recorded in Test Report GB/BAS/ExTR18.0031/00. Project File 17/0229.
Baseefa14ATEX0119X Issue 6	18 April 2018	To allow alternative flange mount body styles To allow an update to the part number matrix. The associated assessment is recorded in Test Report GB/BAS/ExTR18.0082/00. Project File 18/0159
Baseefa14ATEX0119X Issue 7	22 October 2019	To allow for the inclusion of missing drawings To allow for the addition of new ES part numbers utilising existing 'FS' housings To allow modification to drawings dimensions To allow for drawing modifications that do not affect certification To allow for additional body designs FS-F-WL, FS-F-W and FS-B-WL The associated assessment is recorded in Test Report GB/BAS/ExTR19.0233/00. Project File 19/0465
Baseefa14ATEX0119X Issue 8	14 May 2021	To allow a minor change to the enclosure lid design allowing repositioning of the O-ring and locking screw. To assess the revised design for IP68 at 30m for 24 hours. The associated assessment is recorded in Test Report GB/BAS/ExTR19.0321/00. Project File 19/0675
Baseefa14ATEX0119X Issue 9	3 December 2021	To assess the equipment against EN IEC 60079-0:2018. SGS Baseefa certification report GB/BAS/ExTR21.0177/00 refers.
Baseefa14ATEX0119X Issue 10	25 July 2023	To accommodate a one-piece construction against the currently welded construction SGS certification report GB/SGS/ExTR23.0031/00 refers.
Baseefa14ATEX0119X Issue 11	24 July 2025	To consolidate the existing schedule drawings into a smaller common set of schedule drawings, addition of new optional earthing configuration, To add Line Fault Monitoring (LFM) Resistor and minor drawing changes not affecting certification. Certification report GB/SGS/ExTR25.0079/00 refers.
Baseefa14ATEX0119X Issue 12	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. Certification report GB/SGS/ExTR25.0096/00 refers.
For drawings applicable to each issue, see original of that issue.		