

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 Certificate Number: **BAS21UKEX0754X Issue 3**
- 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**
- 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 60079-31:2014**  
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 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 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 Customer Reference No. **5323** Project File No. **25/0276**

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**SGS United Kingdom Ltd.**

(Incorporating Baseefa Ltd.)

Rockhead Business Park, Staden Lane,

Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600

e-mail [baseefa@sgs.com](mailto:baseefa@sgs.com) web site [www.sgs.co.uk/sgsbaseefa](http://www.sgs.co.uk/sgsbaseefa)

Registered in England No. 01193985.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



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Authorised Signatory

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## Schedule

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### Certificate Number BAS21UKEX0754X – Issue 3

#### 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)

	<b>Switch Type/Description</b>	<b>XX</b>	<b>-</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>-</b>	<b>X</b>
<b>Range</b>	MagnaProx / Euroswitch	ES	-					-	
	FerroProx / FerroSwitch	FS	-					-	
<b>Housing Style -MagnaProx</b>	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				-	
<b>Housing Style -FerroProx</b>	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				-	
<b>Approval</b>	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			-	
<b>Material</b>	Stainless Steel Housing		-			2		-	
<b>Temperature</b>	T6 Temperature Class		-				1	-	
	T4/T6 Temperature Class		-				2	-	
<b>Options (may be combined e.g. -D-E)</b>	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...)	
<b>Customer Specials</b>	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 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. 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
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
ENG004		8	1/11/23	Sample Marking for IECEx/Exd Wireable Euroswitch

For all other drawings refer to Baseefa14ATEX0119X latest issue

**20 Certificate History**

Certificate No.	Date	Comments
BAS21UKEX0754X	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 and EN 60079-31:2014 is documented in Test Report GB/BAS/ExTR21.0177/00.
BAS21UKEX0754X - Issue 1	25 July 2023	To accommodate a one-piece construction against the currently welded construction SGS certification report GB/SGS/ExTR23.0031/00 refers.
BAS21UKEX0754X - 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, To add Line Fault Monitoring (LFM) Resistor and minor drawing changes not affecting certification. Certification report GB/SGS/ExTR25.0079/00 refers.

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<b>Certificate No.</b>	<b>Date</b>	<b>Comments</b>
BAS21UKEX0754X - 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. Certification report GB/SGS/ExTR25.0096/00 refers.
For drawings applicable to each issue, see original of that issue.		