

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: **BAS21UKEX0756X Issue 1**

4 Product: **Euroswitch Type ES & FS Proximity Switches**

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 (-20°C ≤ Ta ≤ +70°C)* IP66/67

*** alternative markings of T4/T135°C (-60°C ≤ Ta ≤ +120°C) and**

T3/T200°C (-20°C ≤ Ta ≤ +175°C) are permitted – See Schedule

SGS Customer Reference No. **5323**

Project File No. **23/0305**

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D BREARLEY

LEAD CERTIFICATION ENGINEER
On behalf of SGS United Kingdom Limited

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Schedule

14

Certificate Number BAS21UKEX0756X – Issue 1

15 Description of Product

Type ES Proximity Switches

The Euroswitch Type ES Proximity Switches are manufactured in stainless steel and comprise a variety of switch tube shapes and sizes, each containing a potted reed switch assembly and fitted with an integral cable or flying leads.

The potted reed switch assemblies are intended to be operated by proximity to an external magnet. The reed switches may be provided in 20W, 1A or 3A ratings.

The switch tubes are available in a range of lengths, from 55mm to 147mm long, and may have an external M18 x1, or 5/8-18 UNF or 3/4-16 UNF or 3/8" UNF thread for mounting/positioning the unit. Alternatively the tube bore may be in a rectangular block with through holes for mounting.

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

A range of integral cables/leads may be fitted dependant on the ambient temperature and conditions of use. A PG9, M20 or 1/2" NPT female thread may also be provided at the rear of the switch tube for the attachment of a suitable conduit (or other cable protection system).

Type FS Proximity Switches

The Euroswitch Type FS Proximity Switches feature an internal switch that contain a switch assembly operated by an internal magnet and are fitted with an integral cable or flying leads.

The potted switch assemblies are intended to be operated by proximity to a ferrous metal sheet or plate.

In this form, the Type FS Proximity Switches are rated up to 24Vdc/3A, 110Vac/4A or 240Vac/2A

An alternative rectangular potted switch unit, complete with an integral cable, designated a Type ES-SS (Safety Switch) and incorporating multiple reed switches rated at 24Vdc, 100mA

A Type ES or FS switch assembly (as the shown above), complete with an integral bushing/adaptor fitted (converting the entry thread to a cylindrical flamepath), for fitting to a terminal enclosure as detailed in IECEx certificate No. IECEx BAS 14.0059 (or Baseefa14ATEX0120)

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

Ex db IIC T6* Gb

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

*alternative marking of T4/T135°C (-60°C ≤ Ta ≤ +100°C) and T3/T200°C (-20°C ≤ Ta ≤ +155°C)

	Switch Type/Description	XX	-	X	X	X	X	-	X
Range	MagnaProx / Euroswitch	ES	-					-	
	FerroProx / FerroSwitch	FS	-					-	
	Safety Switch	ES	-					-	
Housing Style - MagnaProx	90 x 30 x 23 Rectangular Housing	ES only	-	0				-	
	80 x 20 x 25 Rectangular Housing	ES only	-	1				-	
	55 x 20 x 25 Rectangular Housing	ES only	-	2				-	
	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				-	
	5/8"-18 UNF Cylindrical Housing	ES only	-	9				-	
	M18 x 1 Cylindrical Housing	ES only	-	10				-	
	5/8"-18 UNF Cylindrical Housing	ES only	-	11				-	
	M18 x 1 Cylindrical Housing	ES only	-	12				-	
	3/8"-24 UNF Cylindrical Housing	ES only	-	13				-	
	M12 x 1 Cylindrical Housing	ES only	-	14				-	
3/8"-24 UNF Cylindrical Housing	ES only	-	15				-		

	M12 x 1 Cylindrical Housing	ES only	-	16				-	
	91 x 22 x 36 Rectangular Housing - Safety Switch	ES only	-	SS				-	
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				-	
	5/8"-18 UNF Cylindrical Housing	FS only	-	H				-	
	M18 x 1 Cylindrical Housing	FS only	-	I				-	
	5/8"-18 UNF Cylindrical Housing	FS only	-	J				-	
	M18 x 1 Cylindrical Housing	FS only	-	K				-	
	5/8"-18 UNF Cylindrical Housing	FS only	-	L				-	
	M18 x 1 Cylindrical Housing	FS only	-	M				-	
	3/8"-24 UNF Cylindrical Housing	FS only	-	N				-	
	M12 x 1 Cylindrical Housing	FS only	-	O				-	
	3/8"-24 UNF Cylindrical Housing	FS only	-	P				-	
	M12 x 1 Cylindrical Housing	FS only	-	Q				-	
Flange Mount Housing	FS only	-	CYL-B				-		
90 x 30 x 23 Rectangular Housing	FS only	-	Z				-		
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		-	
Cable Type	PVC Cable		-				1	-	
	PVC Leads		-				1L	-	
	Polyolefin Cable		-				2	-	
	Teflon Leads		-				4L	-	
	PEEK Leads		-				5L	-	
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
	Earth/Ground Wire		-					-	E
	Latching/Bi-stable Contacts	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
	Male adaptor thread M20 or 1/2"NPT or 3/4" NPT		-					-	(M), (N) or (N3)
Customer Requests Not Affecting Certification		-					-	(X...)	

Customer specials

Customer Specials	80 x 20 x 25 rectangular switch 5m PVC cable	ES only	-	HLS-25d
	80 x 20 x 25 rectangular switch 10m PVC cable	ES only	-	HLS-210d

16 Report Number

See Item 20 – Certificate History

17 Specific Conditions of Use

- External earth bonding of the metal enclosure may be achieved via the external threaded or bolted mounting facility and/or the threaded cable entry (when provided).
- The integral cables/conductors shall be physically protected from pulling, twisting and mechanical damage.

3. The PG9 rear entry thread (where provided) does not meet the flameproof requirements, and shall not be used for direct interface with flameproof enclosures”.
4. When used in dust atmospheres the threaded cable protection arrangement (where threads are provided) shall be further sealed to maintain the IP6X rating of the enclosure.
5. 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)

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
ENG001		13	21/11/23	*Marking Detail for Exd Euroswitch

For all other drawings refer to Baseefa14ATEX0256X latest issue

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0756X Issue 0	3 December 2021	Prime Certificate Report Number: GB/BAS/ExTR21.0178/00 Project Number: 21/0380 Original issue of the certificate
BAS21UKEX0756X Issue 1	24 July 2025	To consolidate the existing schedule drawings into a smaller common set of schedule drawings, addition of new optional cable entry configuration, to add Line Fault Monitoring (LFM) Resistor and minor drawing changes not affecting certification. Certification report GB/SGS/ExTR25.0079/00 refers.

For drawings applicable to each issue, see original of that issue.