

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 **Baseefa14ATEX0256X – Issue 11**
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 Type ES & FS Proximity Switches**

5 Manufacturer: **Longvale Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa14ATEX0256X** 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 (-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 Fimko Oy Customer Reference No. **5323**

Project File No. **23/0305**

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FINAS
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3003 (EN ISO/IEC 17065)


Tuomas Hänninen
SGS Fimko Oy

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Schedule

14

Certificate Number Baseefa14ATEX0256X – Issue 11

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 ½"NPT or ¾" 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

Cen
Refer to Notifie
Signed
B. Hiron

16 Report Number

See 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).

2. 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
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

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
70-652 ⁱ		B2	23/01/2024	1/2"-14 NPT Thread Designation
ENG001 ^{iv}		13	21/11/23	Marking Detail for Exd Euroswitch
GA-004 ⁱ		D	21/05/2024	FS-B-D, FS-C-D, FS-J-D, FS-K-D, FS-R-D & FS-CYL-B-D DPDT ASSY
GA-011 ⁱ		B	05/12/2024	FS-B, C, D, E, F, H, I, N, O, Z & CYL-B SPDT HARDWIRED ASSY
GA-015 ⁱ		A	14/05/2024	ASSY ES REEDS – CONDUIT ENTRY
GA-016 ⁱ		A	14/05/2024	ES SERIES ASSY – STRAIGHT BODY
GA-033 ⁱ		C	17/10/2023	FS Assy Hardwired, Straight Body
GA-079 ⁱ		A	14/05/2024	SAFETY SWITCH ASSY
SD001-1 ⁱ		A	28/1/2025	Body Tube – Hex. Conduit Entry
SD001-2 ⁱ		A	5/11/2024	Body Tube – Straight
SD002 ⁱ		A	10/02/2025	Body Rectangular
SD021-1 ⁱⁱ		A	05/11/2024	Ferrowitch Cartridge
SD021-2 ⁱⁱ		A	05/11/2024	Ferrowitch Cartridge LMF FS SPDT/DPDT
SD021-3 ⁱⁱ		A	05/11/2024	Ferrowitch Cartridge
SD022-1 ⁱⁱⁱ		A	14/05/2024	ES Reed Switch
SD022-2 ⁱⁱⁱ		A	14/05/2024	ES Reed Switch
SD023 ⁱⁱⁱ		A	23/01/2024	Leads
SD024-1 ⁱ		A	21/08/2024	Cables
SD024-2 ⁱ		A	21/08/2024	Cables
SD025-1 ⁱ		A	08/11/2023	Switch Entry Adaptors – Conduit
SD026 ⁱⁱⁱ		A	01/10/2024	Non Metallic Components

Number	Sheet	Issue	Date	Description
SWM3 ⁱ		B	02/07/25	Baseefa14ATEX0256X Hard Wired Part Number Matrix

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
ADAPTOR 32 ⁱ		2	19/03/14	ES Junction Box Adaptor 32

- i. These drawings are common to IECEX BAS 14.0121X and Baseefa14ATEX0256X
- ii. These drawings are common to IECEX BAS 14.0056X, Baseefa14ATEX0119X, IECEX BAS 14.0121X and Baseefa14ATEX0256X
- iii. These drawings are common to IECEX BAS 14.0056X, Baseefa14ATEX0119X, IECEX BAS 16.0034X, Baseefa16ATEX0049X, IECEX BAS 14.0121X and Baseefa14ATEX0256X
- iv. These drawings are common to IECEX BAS 14.0121X, Baseefa14ATEX0256X and BAS21UKEX0756X

20 Certificate History

Certificate No.	Date	Comments
Baseefa14ATEX0256X	20 November 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 documented in Test Report No. GB/BAS/ExTR14.0309/00 and Project File 13/0784.
Baseefa14ATEX0256X/1	27 February 2015	To permit the use of a revised switch bushing/adaptor to include a retaining clip. The associated assessment is recorded in Test Report GB/BAS/ExTR14.0122/00 and Project 13/0951.
Baseefa14ATEX0256X/2	19 January 2016	To permit the addition of the optional switch body CS-601, minor drawing changes and to include a parts number matrix to the certificate schedule The associated assessment is recorded in Test Report GB/BAS/ExTR15.0363/00 and Project 15/0902.
Baseefa14ATEX0256X/3	14 April 2016	To permit the use of an alternative integral cable. The associated assessment is recorded in Test Report GB/BAS/ExTR16.0118/00 and Project 16/0273.
Baseefa14ATEX0256X/4	9 August 2016	To permit some switches types to be marked with Ex i marking covered by other certificates in addition to existing marking. In addition the PTFE cable type option is removed from drawing SWM3 & SWM4 and WLRT option is removed from drawing SWM4. The associated assessment is recorded in Test Report GB/BAS/ExTR16.0201/00 and Project 16/0427.
Baseefa14ATEX0256X Issue 5	20 September 2016	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and permits a new switch body of Type FS-L. The associated assessment is recorded in Test Report GB/BAS/ExTR16.0252/00 and Project 16/679.

Certificate No.	Date	Comments
Baseefa14ATEX0256X Issue 6	2 February 2018	To allow the addition of the ES-6000 Metric threaded switch bodies To allow the option of a DPDT (Double Pole Double Throw) variant To allow male to male nipples to be fitted into the switches To allow a high ambient, +175°C option To allow 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/ExTR18.0030/00 and Project 17/0229
Baseefa14ATEX0256X Issue 7	29 March 2018	To allow alternative threaded and flange mounted switch bodies To allow an update to the part number matrix. The associated assessment is recorded in Test Report GB/BAS/ExTR18.0081/00 and Project 18/0159
Baseefa14ATEX0256X Issue 8	6 November 2018	To allow an ES3000 Nickel Plated brass option The associated assessment is recorded in Test Report GB/BAS/ExTR18.0283/00 and Project 18/0519
Baseefa14ATEX0256X Issue 9	16 December 2019	To allow the addition of new part numbers utilising existing 'FS' housings To allow the addition of 1 new ES part number utilising external larger housing, internal dimensions not changed To allow Replacement of the original FS-K with the part number FS-Z To allow dimensional changes to drawing, including new drawing format. The associated assessment is recorded in Test Report GB/BAS/ExTR19.0233/00 and Project 19/0465
Baseefa14ATEX0256X Issue 10	3 December 2021	To assess the equipment against EN IEC 60079-0:2018. SGS Baseefa certification report GB/BAS/ExTR21.0178/00 refers.
Baseefa14ATEX0256X Issue 11	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.		