



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX BAS 14.0121X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 11

Issue 10 (2021-12-06)

Issue 9 (2019-12-16)

Issue 8 (2018-11-06)

Issue 7 (2018-04-18)

Issue 6 (2018-02-15)

Issue 5 (2016-09-08)

Issue 4 (2016-08-09)

Issue 3 (2016-04-14)

Issue 2 (2016-01-19)

Issue 1 (2015-03-02)

Date of Issue: 2025-07-25

Applicant: **Longvale Limited**
Lancaster Park
Needwood
Burton-upon-Trent
Staffordshire
DE13 9PD
United Kingdom

Equipment: **Euroswitch TYPE ES & FS Proximity Switches**

Optional accessory:

Type of Protection: **Flameproof & Dust (by Enclosure)**

Marking: **Ex db IIC T6* Gb**
Ex tb IIIC T85°C* Db (-20°C ≤ Ta ≤ +70°C)* IP66/67
***alternative marking of T4/T135°C (-60°C ≤ Ta ≤ +120°C) and**
T3/T200°C (-20°C ≤ Ta ≤ +175°C) are permitted – See Schedule

Approved for issue on behalf of the IECEx
Certification Body:

D Brearley

Position:

Lead Certification Engineer

Signature:
(for printed version)

Date:
(for printed version)

25/7/2025

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

SGS UK Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 14.0121X**

Page 2 of 4

Date of issue: 2025-07-25

Issue No: 11

Manufacturer: **Longvale Limited**
Lancaster Park
Needwood
Burton-upon-Trent
Staffordshire
DE13 9PD
United Kingdom

Manufacturing locations: **Longvale Limited**
Lancaster Park
Needwood
Burton-upon-Trent
Staffordshire
DE13 9PD
United Kingdom

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/BAS/ExTR14.0122/00](#)
[GB/BAS/ExTR16.0118/00](#)
[GB/BAS/ExTR18.0030/00](#)
[GB/BAS/ExTR19.0233/00](#)

[GB/BAS/ExTR14.0309/00](#)
[GB/BAS/ExTR16.0201/00](#)
[GB/BAS/ExTR18.0081/00](#)
[GB/BAS/ExTR21.0178/00](#)

[GB/BAS/ExTR15.0363/00](#)
[GB/BAS/ExTR16.0252/00](#)
[GB/BAS/ExTR18.0283/00](#)
[GB/SGS/ExTR25.0079/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0013/17](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 14.0121X**

Page 3 of 4

Date of issue: 2025-07-25

Issue No: 11

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. 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. The 2,000, 5,000 and 10,000 psi pressure resistant endcaps have not been verified by SGS.



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 14.0121X**

Page 4 of 4

Date of issue: 2025-07-25

Issue No: 11

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 11.1

To consolidate the existing schedule drawings into a smaller common set of schedule drawings.

Variation 11.2

Addition of new optional cable entry configuration as per drawing 70-652.

Variation 11.3

To add Line Fault Monitoring (LFM) Resistor.

Variation 11.4

Minor drawing changes not affecting certification.

ExTR: **GB/SGS/ExTR25.0079/00**

File Reference: **23/0305**

Annex:

[IECEX BAS 14.0121X Annex issue 4.pdf](#)

	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	-	

SGS UK Limited
Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United
Kingdom



ANNEX to IECEx BAS 14.0121X

Issue No. 4

Date: 24 July 2025

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