



# 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](http://www.iecex.com)

Certificate No.: **IECEX BAS 14.0056X**

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Certificate history:

Status: **Current**

Issue No: 12

Issue 11 (2025-07-25)

Issue 10 (2023-08-02)

Issue 9 (2021-12-06)

Issue 8 (2021-05-24)

Issue 7 (2019-12-16)

Issue 6 (2018-04-18)

Issue 5 (2018-02-15)

Issue 4 (2016-09-20)

Issue 3 (2016-08-01)

Issue 2 (2016-01-20)

Date of Issue: 2025-11-13

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

Equipment: **Euroswitch Proximity Switches – Type No.s suffixed W (wireable)**

Optional accessory:

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

Marking: 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

Approved for issue on behalf of the IECEx  
Certification Body:

**D Brearley**

Position:

**Lead Certification Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

13/11/2025

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Certificate issued by:

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





# IECEX Certificate of Conformity

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Date of issue: 2025-11-13

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

Manufacturing  
locations:

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/ExTR14.0119/00](#)  
[GB/BAS/ExTR16.0252/00](#)  
[GB/BAS/ExTR19.0233/00](#)  
[GB/SGS/ExTR23.0031/00](#)

[GB/BAS/ExTR14.0275/00](#)  
[GB/BAS/ExTR18.0031/00](#)  
[GB/BAS/ExTR19.0321/00](#)  
[GB/SGS/ExTR25.0079/00](#)

[GB/BAS/ExTR15.0353/00](#)  
[GB/BAS/ExTR18.0082/00](#)  
[GB/BAS/ExTR21.0177/00](#)  
[GB/SGS/ExTR25.0096/00](#)

Quality Assessment Report:

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



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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)

Please see annex for full description.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 12.1

To introduce a new aluminium head and lid option.

### Variation 12.2

To allow an alternate flame path arrangement between head and body tube.

ExTR: **GB/SGS/ExTR25.0096/00**

File Reference: **25/0276**

## Annex:

[IECEX BAS 14.0056X Annex issue 5.pdf](#)

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



ANNEX to IECEx BAS 14.0056X

Issue No. 5

Date: 27 October 2025

	Switch Type/Description	XX	-	X	X	X	X	-	X
<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			