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 Number: **Baseefa14ATEX0013X – Issue 14**

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**

5 Manufacturer: **Longvale Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa14ATEX0013X** 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 60079-11: 2012**

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:

See Certificate Schedule

SGS Fimko Oy Customer Reference No. **5323** Project File No. **25/0276**

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S003 (EN ISO/IEC 17065)

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13 **Schedule**

14 **Certificate Number Baseefa14ATEX0013X – Issue 14**

15 Description of Product

The Euroswitch range covers the main Euroswitch sensor (which may also be identified as the MagnaProx), the Ferroswitch (may also be identified as FerroProx), a safety switch, a Resin Switch (may also be identified as a MagnaProx) and specialized switches that include a 4-wire valve position switch and a differential pressure switch.

The Euroswitch range of proximity sensors consist of up to two sets of volt-free switch contacts, either normally-open, normally-closed or change-over, which are actuated by either an external or integral magnet.

The proximity sensors come in various shapes, sizes and external materials of construction (stainless steel, aluminium or plastic). In all cases the switch contacts are encapsulated into the outer enclosure.

Electrical connections are made to the Gas and Dust certified proximity sensors via an integral cable, separately certified Ex e terminals in a terminal chamber or via a plug and socket connector.

The applied marking, temperature range and terminal parameters are dependent on the models selected and are detailed below.

The manufacturer has controlled the capacitance and inductance of the cable. The capacitance and inductance per unit length are ≤ 120 pF/m and ≤ 0.7 µH/m respectively. Therefore for a Group IIC atmosphere the cable length cannot exceed 550 m and 3,000 m for a Group IIIC atmosphere for single switch circuits.

For dual switch circuits the permitted cable length limit is reduced to 137 m for Group IIC atmospheres and 811 m for Group IIIC. The end-user should contact the manufacturer if cable lengths in excess of these are required.

Marking for the **METALLIC Group IIC & IIIC** versions (excluding LFM and connector versions) as detailed on drawing **ENG002:**

Ui	= 30V
Ii	= 250 mA
Pi	= 1.3 W
Ci	= 0 or 120 pF/m of cable for non-wireable types
Li	= 0 or 0.7 µH/m of cable for non-wireable types
The Wireable types shall be marked (metallic IP66/67/68 enclosures only)	
Ⓔx II 1G	Ⓔx II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +125°C)	Ex ia IIIC T135°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with PVC integral cable types shall be marked	
Ⓔx II 1G	Ⓔx II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-20°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Polyolefin integral cable types shall be marked	
Ⓔx II 1G	Ⓔx II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +125°C)	Ex ia IIIC T135°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Teflon integral wiring shall be marked	
Ⓔx II 1G	Ⓔx II 1D
Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +175°C)	Ex ia IIIC T200°C IP66/67/68 Da (-40°C ≤ Ta ≤ +175°C)
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +125°C)	Ex ia IIIC T135°C IP66/67/68 Da (-40°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-40°C ≤ Ta ≤ +80°C)

The Non-Wireable types with Silicone integral wiring shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T3 Ga (-55°C ≤ Ta ≤ +175°C)	Ex ia IIIC T200°C IP66/67/68 Da (-55°C ≤ Ta ≤ +175°C)
Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +125°C)	Ex ia IIIC T135°C IP66/67/68 Da (-55°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-55°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +90°C)	Ex ia IIIC T135°C IP66/67/68 Da (-40°C ≤ Ta ≤ +90°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-40°C ≤ Ta ≤ +80°C)
The Non-Wireable types with PEEK integral wiring shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T3 Ga (-60°C ≤ Ta ≤ +175°C)	Ex ia IIIC T200°C IP66/67/68 Da (-60°C ≤ Ta ≤ +175°C)
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +125°C)	Ex ia IIIC T135°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)

Marking for the **METALLIC Group IIC & IIIC** versions (ES Series LFM versions only. Excluding connector versions), as detailed on drawing **ENG002:**

Ui	= 30V
Ii	= 250 mA
Pi	= 1.3W
Ci	= 0 or 120 pF/m of cable for non-wireable types
Li	= 0 or 0.7 µH/m of cable for non-wireable types
The Wireable types shall be marked (metallic IP66/67 enclosures only)	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with PVC integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-20°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Polyolefin integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Silicone integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-55°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-55°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +90°C)	Ex ia IIIC T150°C IP66/67/68 Da (-40°C ≤ Ta ≤ +90°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-40°C ≤ Ta ≤ +80°C)
The Non-Wireable types with PEEK integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)

The Non-Wireable types with Teflon integral wiring shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-40°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C)	Ex ia IIIC T40°C IP66/67/68 Da (-40°C ≤ Ta ≤ +80°C)

Marking for the **METALLIC Group IIC & IIIC** versions (FS series LFM versions only. Excluding connector versions), as detailed on drawing **ENG002:**

Ui	= 30V
Ii	= 250 mA
Pi	= 650mW
Ci	= 0 or 120 pF/m of cable for non-wireable types
Li	= 0 or 0.7 µH/m of cable for non-wireable types
The Wireable types shall be marked (metallic IP66/67/68 enclosures only)	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with PVC integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-20°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Polyolefin integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Silicone integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-55°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-55°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +90°C)	Ex ia IIIC T150°C IP66/67/68 Da (-40°C ≤ Ta ≤ +90°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-40°C ≤ Ta ≤ +80°C)
The Non-Wireable types with PEEK integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-60°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +55°C)	Ex ia IIIC T140°C IP66/67/68 Da (-60°C ≤ Ta ≤ +80°C)
The Non-Wireable types with Teflon integral wiring shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +105°C)	Ex ia IIIC T185°C IP66/67/68 Da (-40°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C)	Ex ia IIIC T40°C IP66/67/68 Da (-40°C ≤ Ta ≤ +80°C)

Marking for the **Connector type** versions as detailed on drawing ENG002

Ui	= 30V
Ii	= 250 mA
Pi	= 550mW
Ci	= 0
Li	= 0
The Connector types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +80°C)	Ex ia IIIC T135°C IP66/67/68 Da (-20°C ≤ Ta ≤ +80°C)
The Connector type LFM versions shall be marked:	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +55°C)	Ex ia IIIC T135°C IP66/67/68 Da (-20°C ≤ Ta ≤ +80°C)

Marking for the **NON-METALLIC Group IIC & IIIC** versions as detailed on drawing ENG005:

Ui	= 30V
Ii	= 250 mA
Pi	= 650 mW
Ci	= 0 or 120 pF/m of cable for non-wireable types
Li	= 0 or 0.7 µH/m of cable for non-wireable types
The Non-Wireable types with PVC integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +80°C)	Ex ia IIIC T75°C IP54 Da (-20°C ≤ Ta ≤ +70°C)
The Non-Wireable types with Polyolefin integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +125°C)	Ex ia IIIC T75°C IP54 Da (-20°C ≤ Ta ≤ +70°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +80°C)	
The Non-Wireable types with Silicone integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +125°C)	Ex ia IIIC T75°C IP54 Da (-20°C ≤ Ta ≤ +70°C)
Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +80°C)	
The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +90°C)	Ex ia IIIC T75°C IP54 Da (-20°C ≤ Ta ≤ +70°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +80°C)	
The Non-Wireable types with PEEK integral cable types shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +125°C)	Ex ia IIIC T75°C IP54 Da (-20°C ≤ Ta ≤ +70°C)
Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +80°C)	
The Non-Wireable types with Teflon integral wiring shall be marked	
⟨Ex⟩ II 1G	⟨Ex⟩ II 1D
Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +175°C)	Ex ia IIIC T200°C IP54 Da (-40°C ≤ Ta ≤ +175°C)
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +125°C)	Ex ia IIIC T135°C IP54 Da (-40°C ≤ Ta ≤ +125°C)
Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +80°C)	Ex ia IIIC T85°C IP54 Da (-40°C ≤ Ta ≤ +80°C)

Part number matrix Metallic switches (Drawing SWM5)

	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				-	
	87 x 15 x 22 Rectangular Housing	ES only	-	44				-	
	67 x 19 x 13 Rectangular Housing	ES only	-	45				-	
	35 x 13 x 16 Rectangular Housing	ES only	-	46				-	
	80 x 16 x 21 Rectangular Housing	ES only	-	BZ18				-	
	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				-	
	M20 x 1.5 Cylindrical Housing - 250mm Long	FS only	-	F				-	X317/X442
	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				-	
	1" -14 UNS cylindrical switch	FS only	-	R				-	
	Flange Mount Housing	FS only	-	CYL				-	
	90 x 30 x 23 Rectangular Housing	FS only	-	Z				-	
Approvals	ATEX/IECEx/UKEX Markings		-		2			-	
	Multiple Certification Markings (Exia only)		-		E			-	
	Other Regional Exia Certification Markings		-		F - Z			-	
Material	Stainless Steel Housing		-			2		-	
Cable Type	PVC Cable		-				1	-	
	PVC Leads		-				1L	-	
	Polyolefin Cable		-				2	-	
	Polyurethane (PUR) Cable		-				3	-	
	Teflon Leads		-				4L	-	
	PEEK Leads		-				5	-	
	Silicone Cable		-				6	-	
Options (may be combined e.g. -D-E)	1A Switching	ES only	-					-	A
	20W Reed	ES only	-					-	B
	3A Switching - Normally Open	ES only	-					-	C
	DPDT Contacts		-					-	D
	Earth/Ground Wire		-					-	E
	Latching/Bi-stable	ES only	-					-	F
	Fully Potted Conduit Entry		-					-	FP
	3A Switching - SPDT Tungsten Contacts	ES only	-					-	H
	Line Fault Monitoring (NAMUR Output) - Normally Open		-					-	LFO
	Line Fault Monitoring (NAMUR Output) - Normally Closed		-					-	LFC
	Normally Open Form A (2-wire)		-					-	NO
	Normally Closed Form B (2-wire)		-					-	NC
	5,000 psi Pressure Resistant End Cap		-					-	5K
	10,000 psi Pressure Resistant End Cap		-					-	10K
	Side Entry Teflon Leads		-					-	SE
	Back/Top Entry Wireable Terminal Head	Cylindrical Only	-					-	W
	Side Entry Wireable Terminal Head	Cylindrical Only	-					-	WL
	Side Entry Wireable Terminal Head - Rotatable	Cylindrical Only	-					-	WLR
	Twin Side Entry Wireable Terminal Head - Rotatable	Cylindrical Only	-					-	WLRT
	Twin Side (90°) Entry Wireable Terminal Head - Rotatable	Cylindrical Only	-					-	WLRT90
	Triple Side Entry Wireable Terminal Head - Rotatable	Cylindrical Only	-					-	WLRT3
	Back/Top Entry Wireable Terminal Head - Aluminium	Cylindrical Only	-					-	WA
	Side Entry Wireable Terminal Head - Aluminium	Cylindrical Only	-					-	WLA
	Side Entry Wireable Terminal Head - Rotatable - Aluminium	Cylindrical Only	-					-	WLRA
	Twin Side Entry Wireable Terminal Head - Aluminium	Cylindrical Only	-					-	WLTA
	Twin Side Entry Wireable Terminal Head - Rotatable - Aluminium	Cylindrical Only	-					-	WLRTA
	Alternative Conduit Entry Thread - 1/2" NPT		-					-	NPT
	Alternative Conduit Entry Thread - M20x1.5		-					-	M20
	Customer Requests Not Affecting Certification		-					-	(X...)
	Male Adaptor Thread M20, ½"NPT or ¾"NPT		-					-	(M), (N) or (3N)
	Micro-change Connector M12x1 Thread (* denotes no. of pins)		-					-	V2-*
	Micro-change Connector 1/2" UNF Thread (* denotes no. of pins)		-					-	V5-*
	Mini-change Connector (* denotes no. of pins)		-					-	V3-*

	Switch Type/Description	XX	-	X	X	X	X	-	X
Range	MagnaProx / Euroswitch - Resin Series	RS	-					-	
Housing Style	M12 x 1 x 60mm Cylindrical Housing		-	M12				-	
	M18 x 1 x 60mm Cylindrical Housing		-	M18				-	
	65 x 15 x 25mm Rectangular Housing		-	V1				-	
	28 x 9 x 16mm Rectangular Housing		-	V3				-	
Approvals	ATEX/IECEx/UKEX Markings		-		2			-	
	Multiple Certification Markings (Exia only)		-		E			-	
	Other Regional Exia Certification Markings		-		F - Z			-	
Material	Plastic housing		-			0		-	
Cable Type	PVC cable		-				1	-	
	PVC Leads		-				1L	-	
	Polyolefin cable	Not V3	-				2	-	
Options (may be combined)	Normally Open Form A (2-wire)		-					-	NO
	Short Housing - 40mm Long	M12/M18 Only	-					-	K40
	DPDT Contacts	Not V3	-					-	D
	Latching/bi-stable Contacts	Not V3	-					-	F
	Micro-change Connector M12x1 Thread (* denotes no. of pins)	Not V3	-					-	V2-*
	Micro-change Connector 1/2" UNF Thread (* denotes no. of pins)	Not V3	-					-	V5-*
	Customer Requests Not Affecting Certification		-					-	(X...)

The Part Number format for other switches can be summarised as follows:

Valve Position Switch (4-wire)	**X**	-	**VIP**	-	**X**	
Plastic housing	MI	-	VIP	-	4	
Stainless Steel housing	MS	-	VIP	-	I	

The customer special switch types can be summarised as follows:

DIFFERENTIAL PRESSURE SWITCH	**ESI**	-	**VDHA**	-	**XXXX**	
Single Pole Changeover – Titanium	ESI	-	VDHA	-	1035	
Single Pole Changeover – Stainless Steel	ESI	-	VDHA	-	700	
Single Pole Changeover – Stainless Steel	ESI	-	VDHA	-	450	

80 x 20 x 25 rectangular switch – 5m of pvc cable	ES only	-	HLS-25i
80 x 20 x 25 rectangular switch – 10m of pvc cable	ES only	-	HLS-210i

16 Report Number

See certificate history.

17 Specific Conditions of Use

1. Non-metallic proximity sensors may pose an electrostatic risk. This should be taken into account during installation.
2. Metallic proximity sensors or metallic parts of non-metallic proximity sensors may pose an electrostatic risk if not earthed. This should be taken into account during installation.
3. Integral cables shall be fixed and effectively protected against damage as required of a Type B cable as defined in clause 9.5.3 of IEC 60079-25: 2010.
4. External cabling to the proximity sensors shall use either type A or type B cable as defined in clause 9.5.2 & 9.5.3 of IEC 60079-25: 2010.
5. Junction boxes used to extend the sensor cabling, that are located in a dust hazardous area must be separately certified and appropriate for use in that hazardous area.
6. Where a sensor has two sets of switching contacts, both sets of switching contacts are considered to be part of the same single intrinsically safe circuit, not separate intrinsically safe circuits.

7. The VDHA type Euroswitch bodies may be manufactured from Titanium and so must be mounted in such a way as to avoid impact or friction.

8. Aluminium head options must be protected from impact and friction when located in a Zone 0 area.

9. 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
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, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
SD017		B	09/09/2025	Lid – Cast
GA-022-2		A	31/06/2025	FS/ES Wireable GA – W/WL/WLR/WLRT (Alternative Head/Body Interface)
GA-080		B	11/09/2025	FS/ES W/ 16mm Entry Alu Head
GA-081		B	12/09/2025	FS/ES W/ 26mm Entry Alu Head
SD011-4		A	10/06/2025	Head – 16mm Bottom Entry (Plain Spigot Joint)
SD015-1		B	12/09/2025	Head – Cast Aluminium
SD016-1		B	11/09/2025	Body for Cast Head-Spigot
SWM5		F	25/09/2025	ES/FS Ex ia Proximity Switches (Metallic Housings)

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
GA-001	1 of 1	D	26/06/2025	FS/ES-*-D-W/WL/WLR Assy
GA004	1 of 1	D	21/05/2024	FS-B-D, FS-C-D, FS-J-D, FS-K-D, FS-R-D and FS-CYL-B-D DPDT ASSY
GA011	1 of 1	B	05/12/2024	FS-B, C, D, E, F, H, I, N, O, Z and CYL-B SPDT Hardwired Assy
GA014	1 of 1	D	13/03/2025	FS and ES Series with Connector
GA015	1 of 1	A	14/05/2024	ASSY ES REEDS – Conduit Entry
GA016	1 of 1	A	14/05/2024	ES Series Assy – Straight Body
GA022	1 of 1	E	19/06/2025	FS/ES Wireable GA: W/WL/WLR
GA-033	1 of 1	C	17/10/2023	FS Assy Hardwired, Straight Body
GA-037	1 of 1	B	21/05/2024	Assy:- Side entry leads.
GA076	1 of 1	A	19/06/2025	ES or FS-*-W/WL Assy

Number	Sheet	Issue	Date	Description
SD001-1	1 of 3	A	28/01/2025	Body Tube - Hex Conduit Entry
SD001-2	2 of 3	A	05/11/2024	Body Tube - Straight,
SD001-3	3 of 3	A	05/11/2024	Body Tube – Straight with Process Connector
SD002	1 of 1	A	10/02/2025	Body Rectangular
SD011-1	1 of 1	A	19/06/2025	Head - 16 mm Bottom Entry
SD011-2	1 of 1	A	19/06/2025	Head - 26 mm Bottom Entry
SD012	1 to 2	A2	20/06/2025	Body
SD013	1 of 1	A	05/12/2024	Lid
SD014-1	1 of 2	A	05/12/2024	W & WL Switch Body
SD014-2	2 of 2	A	05/12/2024	W & WL Switch Body with Process Connection
SD020	1 to 2	A	23/01/2024	PCBs
SD021-1	1 of 3	A	05/11/2024	Ferroswitch Cartridge
SD021-2	2 of 3	A	05/11/2024	Ferroswitch Cartridge LFM FS SPDT/DPDT
SD021-3	3 of 3	A	05/11/2024	Ferroswitch Cartridge
SD022	1 to 2	A	14/05/2024	ES Reed Switch
SD023	1 of 1	A	23/01/2024	Leads
SD024	1 to 2	A	21/08/2024	Cables
SD025	1 of 1	A	08/11/2023	Switch Entry Adaptors – Conduit
SD026	1 of 1	A	01/10/2024	Non Metallic Components
SD027	1 of 1	A	19/12/2023	Shell and Connector
70-515	1 of 1	A	08/07/2022	Side Entry Boss – ½” NPT
70-652	1 of 1	B2	23/01/2024	1/2” – 14 NPT Thread Designation
ENG002	1 of 1	15	21.11.23	Marking Detail for Metal Exia Euroswitch
ENG005	1 of 1	3	21.11.23	Marking Detail for Non Metallic Exia EUROSWITCH
SWM8	1 of 1	B	25/06/2025	Baseefa14ATEX0013X Part number matrix Non-Metallic Switches
FA17	1 of 1	01	10/05/06	Final Assembly for M-VIP-M
FA49	1 of 1	3	13.01.14	Final Assembly Drawing for MS-VIP
FA-50	1 of 1	02	26/11/13	Final assembly drawing for MODEL – ES-BZ18
FA55	1 of 1	1	11.11.13	Final assembly drawing for ESI-V3 series
FA56	1 of 1	1	11.11.13	Final assembly drawing for ESI-M12 series
FA57	1 of 1	1	23.11.13	Final assembly drawing for ES8000 series
FA59	1 of 1	2	07/02/14	Final Assembly ESI-M18, ESI-M18-K40 & ESI-M18-DPDT
PCB 010	1 of 1	2	07/01/2014	PCB for MS-VIP & M-VIP
BOD 1	1 of 1	1	11/01/05	Outline dimensions for M-VIP-M
M18	1 of 1	1	27/11/13	M18 Body tube
MS-VIP	1 of 1	3	09/01/14	MS-VIP Housing (EExd)
RS 2	1 of 1	1	08.01.14	Reed switch
S1731	1 of 1	3	08.01.14	Reed switch for MS-VIP, MS-VIP-1 & MI-VIP-4
CS-BZ18	1 of 1	2	08/01/14	CS-BZ18 (Latching switch)
CS-V3	1 of 1	1	11.11.13	V3 series body
IBT/IBT2	1 of 1	1	22/11/2013	Body tubes for ES switches & ESI-M12 series

Number	Sheet	Issue	Date	Description
70-512	1 of 1	A	08/07/2022	Side Entry Boss – M20

20 Certificate History

Certificate No.	Date	Comments
Baseefa14ATEX0013X	4 March 2014	The release of the prime certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR 14.0017/00.
Baseefa14ATEX0013X Issue 1	10 November 2014	This issue of the certificate incorporates previously issued primary certificate into one certificate and: • Clarifies the certification marking • Permits the inclusion of additional switch types. • Permits updates to existing switches. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR 14.0331/00.
Baseefa14ATEX0013X Issue 2	15 July 2015	This issue of the certificates permits the optional fitting of Line Fault Monitoring (LFM) resistors in selected metallic switches. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR 15.0208/00.
Baseefa14ATEX0013X Issue 3	3 December 2015	To introduce types HLS-25i and HLS-210i and permit other minor mechanical changes that do not affect the original assessment. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR 15.0349/00.
Baseefa14ATEX0013X Issue 4	9 August 2016	• To permit selected switch types to be additionally marked with the Ex d marking covered by other certificates. • The PTFE cable type option removed from drawing SWM3 The associated test and assessment is documented in Test Report No. GB/BAS/ExTR 16.0201/00.
Baseefa14ATEX0013X Issue 5	20 September 2016	To permit drawing up issues not affecting this certificate. Also to confirm compliance with EN 60079-0:2012+A11:2013. Associated Test Report GB/BAS/ExTR 16.0252/00. Project File 16/0679
Baseefa14ATEX0013X Issue 6	12 February 2018	To permit • Addition of a DPDT version of the Ferroswitch • Addition of an external earth terminal on the rotary wireable switch. • The use of alternative terminals • The introduction of a 175ºC upper ambient option for the fixed wired switch. • The introduction of a twin entry wireable switch. • The introduction of a new 6000 series range of switches. • The Introduction of new cable options. • The use of thread adapters at the cable entry • Changes to the nomenclature of the range of switches. Report GB/BAS/ExTR17.0197/00 for Project 17/0229.

Certificate No.	Date	Comments
Baseefa14ATEX0013X Issue 7	15 May 2018	To Permit: • Addition of new sensor body styles FS-N, FS-O, FS-P and FS-Q • Addition of new sensor body styles FS-H & FS-I • Addition of new sensor body styles FS-CYL • Renaming FS-G switch to FS-J and addition of variants FS-K, FS-L, FS-M, FS-J-D & FS-K-D • Addition of side entry cable option for switch types FS-J, FS-K, FS-L, FS-M, FS-P and FS-Q. • A connector option V2, V3 or V5 for all FS range switches. • A connector option V3 for the ES-5 & ES-6 switches • Addition of Line Fault Monitoring option to all FS range of switches. Report GB/BAS/ExTR18.0093/00 for Project 18/0174
Baseefa14ATEX0013X Issue 8	19 December 2019	To Permit: • Addition of new tables detailing the non-metallic switch nomenclature, reinstating data omitted between issues 5 and 6 • Addition of a new table detailing the metallic switch nomenclature. • Addition of ES Models: 0, 7-16, 45 and 46 • Addition of Model FS-Z • Permit increased power input to LFM models (Excluding FS versions) with wireable and fixed wire connections. • Mechanical changes to wireable switch enclosures. • Update to the LFM nomenclature • A lower ambient for Teflon leads • Introduction of previously omitted drawings • Reduction in power input for metallic switches with connectors. Report GB/BAS/ExTR19.0304/00 for Project 19/0439
Baseefa14ATEX0013X Issue 9	3 July 2020	To permit addition of new cable types and introduction of new elements in the nomenclature. Report GB/BAS/ExTR20.0104/00 for Project 20/0168
Baseefa14ATEX0013X Issue 10	24 May 2021	To allow a minor change to the enclosure lid design allowing repositioning of the O-ring and locking screw. The description of the equipment and the marking are not affected by these changes. The associated assessment is recorded in Test Report GB/BAS/ExTR19.0321/00 for project 19/0675
Baseefa14ATEX0013X Issue 11	29 November 2021	This issue of the confirms the current design meets the requirements of EN IEC 60079-0: 2018 including the revision of the equipment marking in accordance with this standard. The issue of the certificate permits introduction of the Teflon cable for the LFM metallic enclosures and the introduction of IP68 for the metallic enclosures. A minor change was also made to the model code. The associated assessment is recorded in IECEx ExTR GB/BAS/ExTR21.0204/00 and held with Project No. 21/0381.
Baseefa14ATEX0013X Issue 12	21 July 2023	To permit an alternative housing construction and an alternative connector assembly for the equipment. The associated test and assessment is documented in GB/SGS/ExTR23.0015/00 and held with Project No. 23/0119.

Certificate No.	Date	Comments
Baseefa14ATEX0013X Issue 13	15 October 2025	This issue of the certificate was a variation to consolidate and transfer the safety critical information into a revised drawing list in order to reduce and simplify the number of scheduled drawings controlled by the certification. Additional minor changes are incorporated by this variation and will be commented on as appropriate. Finally, a maximum cable length for each explosive atmosphere group and configuration has been included in the description. Report Number: GB/SGS/ExTR25.0148/00 Project Number: 23/0305
Baseefa14ATEX0013X Issue 14	13 November 2025	To Introduce a new aluminium head and lid option. Certification report GB/SGS/ExTR25.0096/00 refers.
For drawings applicable to each issue, see original of that issue.		