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 11**

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 Schedule

SGS Fimko Oy Customer Reference No. **5323** Project File No. **21/0381**

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13 # Schedule

14 ## Certificate Number Baseefa14ATEX0013X – Issue 11

15 Description of Product

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, brass, 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.

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)	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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)	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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)	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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:	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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	
E II 1G	E 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**
Euroswitch	ES	-					-	
Ferro switch	FS	-					-	
Safety switch	ES	-					-	
90 x 20 x 23 rectangular switch	ES only	-	0				-	
80 x 20 x 25 rectangular switch	ES only	-	1				-	
55 x 20 x 25 rectangular switch	ES only	-	2				-	
M18 x 1 cylindrical switch	ES only	-	3				-	
M18 x 1 cylindrical switch	ES only	-	4				-	
5/8" UNF cylindrical switch	ES only	-	5				-	
M18 x 1 cylindrical switch	ES only	-	6				-	
5/8" UNF cylindrical switch	ES only	-	7				-	
M18 x 1 cylindrical switch	ES only	-	8				-	
5/8" UNF cylindrical switch	ES only	-	9				-	
M18 x 1 cylindrical switch	ES only	-	10				-	
5/8" UNF cylindrical switch	ES only	-	11				-	
M18 x 1 cylindrical switch	ES only	-	12				-	
3/8" UNF cylindrical switch	ES only	-	13				-	
M12 x 1 cylindrical switch	ES only	-	14				-	
3/8" UNF cylindrical switch	ES only	-	15				-	
M12 x 1 cylindrical switch	ES only	-	16				-	
87 x 15 x 22 rectangular switch	ES only	-	44				-	
67 x 19 x 13 rectangular switch	ES only	-	45				-	
35 x 13 x 16 rectangular switch	ES only	-	46				-	
80 x 16 x 21 rectangular switch	ES only	-	BZ18				-	
91 x 22 x 36 rectangular safety switch	ES only	-	SS				-	
M18 x 1 cylindrical switch	FS only	-	A				-	
5/8" UNF cylindrical switch	FS only	-	B				-	
M18 x 1 cylindrical switch	FS only	-	C				-	
5/8" UNF cylindrical switch	FS only	-	D				-	
M18 x 1 cylindrical switch	FS only	-	E				-	
3/4"-16 UNF cylindrical switch	FS only	-	F				-	
5/8" UNF cylindrical switch	FS only	-	H				-	
M18 x 1 cylindrical switch	FS only	-	I				-	
5/8" UNF cylindrical switch	FS only	-	J				-	
M18 x 1 cylindrical switch	FS only	-	K				-	
5/8" UNF cylindrical switch	FS only	-	L				-	
M18 x 1 cylindrical switch	FS only	-	M				-	
3/8" UNF cylindrical switch	FS only	-	N				-	
M12 x 1 cylindrical switch	FS only	-	O				-	
3/8" UNF cylindrical switch	FS only	-	P				-	
M12 x 1 cylindrical switch	FS only	-	Q				-	
1" -14 UNF cylindrical switch	FS only	-	R				-	
Flange mount s/w	FS only	-	CYL				-	
90 x 20 x 23 rectangular switch	FS only	-	Z				-	
ATEX/IECEx Markings		-		2			-	
Multiple Certification Markings (Exia only)		-		E			-	
Other regional Exia certification		-		F - Z			-	
Brass housing		-			1		-	
Stainless steel housing		-			2		-	

PVC cable		-				1	-	
PVC Leads		-				1L	-	
Polyolefin cable		-				2	-	
Polyurethane (PUR) Cable		-				3	-	
Teflon Leads		-				4L	-	
PEEK Leads						5		
Silicon Cable						6		
Options (may be combined eg -LE)								
1A Switching	ES only	-					-	A
20W Reed	ES only	-					-	B
3A switching N/O	ES only	-					-	C
DPDT		-					-	D
Earth wire		-					-	E
Latching/bi-stable	ES only	-					-	F
Fully Potted		-					-	FP
Line Fault Monitoring (Normally open)		-					-	LFM/LFO
Line Fault Monitoring (Normally closed)		-					-	LFC
Normally Open Form A (2-wire)		-					-	NO
Normally Closed Form B (2-wire)		-					-	NC
5000 psi pressure resistant end cap		-					-	5K
10000 psi pressure resistant end cap		-					-	10K
Side entry teflon leads		-					-	SE
Back wireable (cylindrical only)		-					-	W
Side wireable (cylindrical only)		-					-	WL
Rotatable side wireable (cylindrical only)		-					-	WLR
Twin entry rotatable side wireable (cylindrical only)		-					-	WLRT
Customer requests not affecting certification		-					-	(X…)
Male adaptor thread M20, ½"NPT or ¾"NPT		-					-	(M), (N) or (3N)
Metric micro change connector (* denotes no. of pins)		-					-	V2-*
Imperial micro change connector (* denotes no. of pins)		-					-	V5-*
Mni change connector (* denotes no. of pins)		-					-	V3-*

Part number matrix Non-Metallic switches (Drawing SWM8)

Switch Type/Description	**XX**	**-**	**X**	**X**	**X**	**X**	**-**	**X**
Euroswitch - Resin Series	RS	-					-	
65 x 15 x 25 rectangular switch		-	V1				-	
ATEX/IECEx Markings		-		2			-	
Multiple Certification Markings (Exia only)		-		E			-	
Other regional Exia certification		-		F - Z			-	
Plastic housing		-			0			
PVC cable		-				1	-	
PVC Leads		-				1L	-	
Polyolefin cable		-				2	-	
Options (may be combined eg -DF)								
Double pole changeover		-					-	D
Latching/bi-stable		-					-	F
Metric micro change connector		-					-	V2-*

(* denotes no. of pins)								
Imperial micro change connector (* denotes no. of pins)		-					-	V5-*
Single pole normally open		-					-	NO
Customer requests not affecting certification		-					-	(X…)

Euroswitch - Resin Series	RS	-					-	
28 x 9 x 16 rectangular switch		-	V3				-	
ATEX/IECEx Markings		-		2			-	
Multiple Certification Markings (Exia only)		-		E			-	
Other regional Exia certification		-		F - Z			-	
Plastic housing		-			0		-	
PVC cable		-				1	-	
PVC Leads		-				1L	-	
Options								
Single pole normally open		-					-	NO
Customer requests not affecting certification		-					-	(X…)

Euroswitch - Resin Series	RS	-					-	
M12 x 1 x 60mm cylinrical switch			M12					
M18 x 1 x 60 cylindrical switch		-	M18				-	
ATEX/IECEx Markings		-		2			-	
Multiple Certification Markings (Exia only)		-		E			-	
Other regional Exia certification		-		F - Z			-	
Plastic housing					0		-	
PVC cable		-				1	-	
PVC Leads		-				1L	-	
Polyolefin cable		-				2	-	
Options								
Single pole normally open		-					-	NO
Short housing		-					-	K40
Double pole changeover		-					-	D
Metric micro change connector (* denotes no. of pins)		-					-	V2-*
Imperial micro change connector (* denotes no. of pins)		-					-	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

GB/BAS/ExTR21.0204/00

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.

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:

Notes	**Number**	**Sheet**	**Issue**	**Date**	**Description**
	ENG002	1 of 1	14	14.09.21	Marking Detail for Metal Exia Euroswitch
	ENG005	1 of 1	2	01.11.21	Marking Details for Non Metallic Exia Euroswitches
	SWM5	1 of 1	D	11/11/21	Baseefa14ATEX0013X Part Number Matrix Metallic Switches

Current drawings which remain unaffected by this issue:

Notes	Number	Sheet	Issue	Date	Description
	10-106		A	20/11/2015	10-601 CS-601 Body
	10-138		A	17/01/2018	ES-5-M20 BODY TUBE
	10-139		A	17/01/2018	ES-6 BODY TUBE
	10-140		A	17/01/2018	FS-6-NPT BODY TUBE
	50-000		A	30/01/1018	FS MINI-SPDT Proximity Switch
	60-102		A	01/10/2019	MA3 Magnet Body & ES45 (XES14), Stainless Steel.
	70-503		A	17/01/2018	FS-C BODY TUBE
	70-512		3	08/01/2014	Boss for side entry Wireable series metric
*******	70-519		A	16/11/2019	ES-0 and FS-Z Housing
*	70-523		1	28/01/2014	70-523 FS-D-WLR
*	70-524		6	18/09/2014	70-524 FS-F-WLR-SWITCH
*	70-525		2	22/01/2014	70-525 WLR INTERNAL PLATE
*	70-526		2	02/04/2014	ES-VDHA-1035 BODY
	70-529		2	09/01/2014	Switch body FS-G series
*	70-531		2	02/04/2014	ES-VDHA-700 BODY
*	70-532		2	02/04/2014	ES-VDHA-450 BODY
	70-533		A	17/01/2018	FS-H Body Tube
	70-539		A	16/01/2018	PCB TRAY – WLRT
	70-540		C	28/02/2018	FS-L Body Tube
	70-547		A	17/01/2018	FS-J Body Tube
	70-549		A	17/01/2018	FS-K Body Tube
	70-554		A	17/01/2018	FS-J-SE Body Tube
	70-555		A	17/01/2018	FSK-SE Body Tube
	70-556		B	19/02/2018	Cyl Switch Flange plate.
	70-559		A	17/01/2018	FS-C-NPT BODY TUBE
	70-562		A	16/11/2017	FS-N Body Tube
	70-563		A	16/11/2017	FS-N (+M20 Entry) Body Tube
	70-564		A	16/11/2017	FS-O Body Tube
	70-565		A	16/11/2017	FS-O-NPT Body Tube
	70-566		A	16/11/2017	FS-P Body Tube
	70-567		A	16/11/2017	FS-Q Body Tube
	70-574		A	16/01/2018	WLRT HEAD (NPT)
	70-575		A	16/01/2018	WLRT HEAD (NPT + EARTH)
	70-576		A	16/01/2018	W HEAD 49.5
	70-577		A	17/01/2018	FS-M Body Tube
	70-579		A	17/01/2018	FS-I-NPT Body Tube
	70-581		A	23/01/2018	FS-CYL-B-P1.025 Body Tube
	70-582		A	23/01/2018	FS-CYL-B-P1.25 Body Tube
	70-583		A	23/01/2018	FS-CYL-C-P1.025 Body Tube
	70-584		A	23/01/2018	FS-CYL-C-P1.25 Body Tube
	70-585		A	19/02/2018	FS-CYL-WLR Body Tube

Notes	Number	Sheet	Issue	Date	Description
	70-587		A	28/02/2018	FS-L-SE Body Tube
	70-588		A	17/01/2018	FS-M-SE Body Tube
	70-589		A	16/11/2017	FS-P-SE Body Tube
	70-590		A	16/11/2017	FS-Q-SE Body Tube
*	70-609		1	14/07/2014	70-609 PCB 24 for WLR Series with Earth
*	70-610		1	10/07/2014	70-610 PCB 25 for WL Series with Earth
	70-816		A	08/03/2017	M12 Connector – M14x1.0 Mounting
	80-209		B	23/01/2018	05NPT-05NPT M-M NIPPLE
	80-211		B	23/01/2018	05NPT-M20 M-M NIPPLE
	80-212		B	23/01/2018	05NPT-075NPT M-M NIPPLE
	80-213		B	23/01/2018	M20-M20 M-M NIPPLE
	80-215		B	23/01/2018	M20 – 0.75NPT M-M NIPPLE
	90-000		B	09/05/2017	FS SERIES DPDT PROXIMITY SWITCH
	90-504		E	03/01/2018	FS-B-D DPDT BODY
	90-511		C	03/01/2018	FS-C-D DPDT BODY
	90-515		A	23/01/2018	FS-B-D-M20 DPDT BODY TUBE
	90-516		A	23/01/2018	FS-C-D-NPT DPDT BODY TUBE
	90-518		A	23/01/2018	FS-J-D DPDT Body Tube
	90-519		A	23/01/2018	FS-K-D DPDT Body Tube
	BOD 1		1	11/01/2005	Outline dimensions for M-VIP-M
	CS 101		C	08/01/2014	1000 Series body
	CS 201		C	08/01/2014	2000 & 6000 Series body
	CS 301		3	08/01/2014	3000 Series body
	CS-301W		3	08/01/2014	ES-3000W Housing (CS-301W)
	CS-401		3	08/01/2014	4000 Series body
	CS-401W		3	08/01/2014	ES-4000W Housing (CS-401W)
	CS 4401		B	08/01/2014	44000 Series body
	CS-501		4	09/01/2014	CS-501 Body
	CS-501W		4	21/01/2014	ES-5000W Housing (CS-501W)
	CS-8000		1	22/11/2013	Euroswitch CS-8000
	CS-A01		2	08/01/2014	Ferrous sensor FS-A series body
	CS-B01		2	08/01/2014	Ferrous sensor FS-B series body
	CS-BZ18		2	08/01/2014	Latching switch
	CS-D01		2	08/01/2014	Ferrous sensor FS-D series body
	CS-E01		2	08/01/2014	Ferrous sensor FS-E series body
	CS-F01		2	08/01/2014	Ferrous sensor FS-F series body
	CS-M2		2	08/01/2014	ES-2S Body
**	CS-SS		8	20/01/2014	Euroswitch Model: ESI-SS221
	CS-V3		1	11/11/2013	V3 series body
*	ESCR001		A	15/07/2016	Euroswitch certification cross reference
**	FA05		7	13/01/2014	Final assembly drawing for ES1000 & 3000 PVC cable
**	FA06		6	13/01/2014	Final assembly drawing for ES2000 & 4000 PVC cable

Notes	Number	Sheet	Issue	Date	Description
**	FA07		8	13/01/2014	Final assembly drawing for ES1000 & 3000 Polyolefin cable
**	FA08		8	13/01/2014	Final assembly drawing for ES2000 & 4000 Polyolefin cable
**	FA09		7	13/01/2014	Final assembly drawing for ES5000 PVC & Polyolefin cable
**	FA15		7	13/01/2014	Final assembly drawing for ES6000 & 1000D
	FA17		1	10/05/2006	Final Assembly for M-VIP-M
**	FA39A		4	13/01/2014	Final assembly drawing for FS-B & FS-C PVC & Polyolefin cable
**	FA40A		4	13/01/2014	Final assembly drawing for FS-B & FS-C PVC leads
*******	FA41A		4	18.09.19	Final Assembly Drawing for FS-D-FS-E, ES-A and ES-8 PVC, Polyolefin & UL Cable
*******	FA42A		4	18/09/2019	Final Assembly Drawing for FS-D, FS-E, ES-7 & ES-8 PVC Leads
**	FA43		6	02/04/2014	Final assembly drawing for ES-3000-D PVC & Polyolefin cable
**	FA44		6	02/04/2014	Final assembly drawing for ES-5000-D PVC & Polyolefin cable
	FA45A		4	24/03/2014	Final assembly drawing for FS-F PVC & Polyolefin cable
**	FA46A		3	13/01/2014	Final assembly drawing for FS-F PVC leads
**	FA47		6	02/04/2014	Final assembly drawing for ES-4000-D PVC & Polyolefin cable
	FA49		2	11/11/2013	Final assembly drawing for MS-VIP
	FA-50		2	26/11/2013	Final assembly drawing for MODEL – EZ-BZ18
*	FA-53		6	10/07/2014	Final Assembly for ES-WL / FS-WL Series
*	FA-54		5	10/07/2014	Final Assembly for ES-W / FS-W Series
	FA55		1	11/11/2013	Final assembly drawing for ESI-V3 series
	FA56		1	11/11/2013	Final assembly drawing for ESI-M12 series
	FA57		1	23/11/2013	Final assembly drawing for ES8000 series
	FA59		1	27/11/2013	Final assembly drawing for ESI-M18, ESI-M18-K40, ESI-M18-DPDT
*	FA61		2	10/07/2014	Final Assembly Drawing for FS-A-WLR & FS-B-WLR
	GA004		C	03/01/2018	FS-B-D & FS-C-D ASSY
	GA-019		A	19/10/2017	FS-CLY HW Enclosure
*******	GA-033		A1	19/09/2019	FS-J, K, L, M, P, Q Assys
	GA-037		A	28/02/2018	FS-J,K,L,M,P,Q Assys: Side entry leads.
*******	GA-038		A1	18/09/2019	FS-N, FS-O and ES-13, ES-14
****	HSRS 1		4	08/01/2014	Reed switch for ES1000(D), 3000(D), 5000(D) & BZ18 and ESI-M12, M18 & 8000 series
****	HSRS 2		4	08/01/2014	Reed switch for ES2000, 4000, 6000, 1000-B, 3000-B, 5000-B & ESI-M12PCR-K40, M18PCR-K40, 8201-D & V3-CR
	IBT/IBT2		1	22/11/2013	Body tubes for ES switches & ESI-M12 series
	LFMC		1	03/07/2015	Line Fault Monitoring Circuit

Notes	Number	Sheet	Issue	Date	Description
	M18		1	27/11/2013	M18 Body tube
	MS-VIP		3	09/01/2014	MS-VIP Housing (EExd)
	PCB 010		2	07/01/2014	PCB for MS-VIP & M-VIP
****	PCB 04		3	07/01/2014	PCB for ES1000, 3000 & 5000 series
	PCB040		A	16/01/2018	PCB040-WLRT_6P_SCREWDOWN
****	PCB 05		3	07/01/2014	PCB for ES1000-B, 2000, 4000 & 44000 series
****	PCB 06		4	07/01/2014	PCB for ES1000-B, 4000 & 44000 series
	PCB 11		1	19/04/2006	PCB for Line Fault Monitoring
	PCB 19		2	23/01/2014	PCB 19 for Wireable series proximity switch
	PCB 21		3	23/01/2014	PCB 21 for Wireable series proximity switch
**	PRC 5		5	05/03/2014	PVC cable for ES1000, 3000 & 5000 series
**	PRC 6		6	05/03/2014	PVC cable for ES2000, 4000 series, FS series & MS-VIP
**	PRC 7		6	09/03/2016	Polyolefin cable for ES1000, 3000 & 5000 series
**	PRC 8		8	09/03/2016	Polyolefin cable for ES2000, 4000 series, FS series & MS-VIP
**	PRC 9		3	09/01/2014	Single PVC leads for ES6000 series switches & other double pole changeover switches
	PRC 12		1	15/05/2006	Thermorad cable for M-VIP-MA
	RS 2		1	08/01/2014	Reed switch
	S1731		3	08/01/2014	Reed switch for MS-VIP, MS-VIP-1 & MS-VIP-4
	SPN01		1	11/11/2013	Non metallic part numbers
	SWM8		A	30/10/2019	Baseefa14ATEX0013X Part number matrix Non-Metallic Switches
	WJ004		A	08/03/2017	6 CORE PVC CABLE
	WJ005		A	08/03/2017	7 CORE PVC CABLE
	WJ007		A	08/03/2017	PVC 18 AWG SINGLE CORE LEADS
	WF017		A	15/01/2018	LM 5.08/06/90 3.5SN OR BX 9994150000
	WJ018		B	10/05/2017	6 CORE POLYOLEFIN CABLE
	WJ019		B	10/05/2017	7 CORE POLYOLEFIN CABLE
	WJ021		A	08/03/2017	PTFE/TEFLON 18 AWG SINGLE CORE LEADS
	WJ030		B	18/05/2020	PEEK 18AWG Single Core Leads
	WJ031		A	13/05/2020	2 Core Silicone Cable
	WJ032		B	15/05/2020	3 Core Silicone Cable
	WJ033		C	15/05/2020	6 Core Silicone Cable
	WJ034		A	15/05/2020	4 Core Silicone Cable
	WJ076		A	13/05/2020	2 Core PUR Cable
	WJ077		A	13/05/2020	3 Core PUR Cable
	WJ078		A	13/05/2020	4 Core PUR Cable
	WJ079		A	13/05/2020	6 Core PUR Cable
*****	70-507		B	11/02/2020	W Switch body - Metric
	70-508		I	13/12/2019	Wireable W Head lid – M20
*****	70-509		B	14/02/2020	W Switch body – Metric long
*****	70-509A		B	14/02/2020	W Switch body – Imperial long

Notes	Number	Sheet	Issue	Date	Description
*****	70-510		B	11/02/2020	WL Switch body - Metric
	70-511		I	13/12/2019	Wireable WL Head lid
*****	70-513		B	11/02/2020	WL Switch body – Imperial
*****	70-513A		B	11/02/2020	WL Switch body – Metric
*****	70-517		B	14/02/2020	W Switch body – Imperial
*****	70-518		B	11/02/2020	WL Switch body – Imperial
*	70-520		I	24/02/2019	WLR Head M20
*****	70-536		B	11/02/2020	FS-F-WL Switch body
*****	70-537		B	18/02/2020	FS-F-W-Switch body
*****	70-542		B	11/02/2020	FS-B-WL Switch body – Special
*	70-552		C	24/02/2020	WLR Head NPT
*	70-569		B	24/02/2020	WLR Head M20 + Earth
*	70-570		B	24/02/2020	WLR Head NPT + Earth
*	70-571		B	24/02/2020	W Head
*	70-572		B	25/02/2020	WLRT Head M20
*	70-573		B	25/02/2020	WLRT Head (M20 + Earth)
*	70-574		B	25/02/2020	WLRT Head (NPT)
*	70-575		B	25/02/2020	WLRT Head (NPT + Earth)
*	70-576		B	25/02/2020	W Head 49.5
*****	FL-201		C	12/12/2019	Head body (NPT)
*****	FL-202		B	12/12/2019	FL Lid WL 49.5
*****	FL-203		C	26/02/2020	DPDT W Head lid (M20)
*****	FL-204		C	26/02/2020	DPDT W Head lid (NPT)
*****	FL-205		B	12/12/2019	W Head body 49.5
*****	FL-206		B	12/12/2019	Head body (M20)
*****	GA-001		C	02/03/2020	FS-B-D-W/WL/WLR Assy
*****	GA-002		C	03/03/2020	FS-C-D-W/WL/WLR Assy
	GA020		B	03/03/2020	FS-CYL-Wireable GA
*****	GA022		D	04/03/2020	FS/ES Wireable GA: W/WL/WLR

All drawings are common to and held with IECEx BAS 14.0003X with the exception of those marked with special codes below.

******* These drawings are common to IECEx BAS 14.0003X & Baseefa14ATEX0013X and also IECEx BAS 14.0121X & Baseefa14ATEX0256X They are held with IECEx BAS 14.0003X and may also be held as applicable with IECEx BAS 14.0121X

******* These drawings are common to IECEx BAS 14.0003X & Baseefa14ATEX0013X and also IECEx BAS 14.0121X & Baseefa14ATEX0256X They are held with IECEx BAS 14.0003X and may also be held as applicable with IECEx BAS 14.0121X

***** These drawings are common to IECEx BAS 14.0003X & Baseefa14ATEX0013X and also IECEx BAS 14.0056X & Baseefa14ATEX0119X. They are held with IECEx BAS 14.0003X and may also be held as applicable with IECEx BAS 14.0056X

****These drawings are also common to Baseefa14ATEX0119X & IECEx BAS 14.0056X and Baseefa14ATEX0256X & IECEx BAS 14.0121X and held with the latter.

**These drawings are also common to Baseefa14ATEX0256X & IECEx BAS 14.0121X and held with the latter.

***** These drawings are also common to Baseefa14ATEX0119X & IECEx BAS 14.0056X and held with the latter.

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