

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS21UKEX0626X Issue 3**

4 Product: **Euroswitch**

5 Manufacturer: **Longvale Limited**

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

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the change of entity to SGS United Kingdom Limited. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 Customer Reference No. **5323**

Project File No. **25/0276**

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0191



Authorised Signatory

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## Schedule

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Certificate Number BAS21UKEX0626X – Issue 3

### 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  $\leq 120$  pF/m and  $\leq 0.7$   $\mu$ H/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**:

U <sub>i</sub>	= 30V
I <sub>i</sub>	= 250 mA
P <sub>i</sub>	= 1.3 W
C <sub>i</sub>	= 0 or 120 pF/m of cable for non-wireable types
L <sub>i</sub>	= 0 or 0.7 $\mu$ H/m of cable for non-wireable types
<b>The Wireable types shall be marked (metallic IP66/67/68 enclosures only)</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with PVC integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Polyolefin integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Teflon integral wiring shall be marked</b>	
⊕ II 1G	⊕ 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)

<b>The Non-Wireable types with Silicone integral wiring shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with PEEK integral wiring shall be marked</b>	
⊕ II 1G	⊕ 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
<b>The Wireable types shall be marked (metallic IP66/67 enclosures only)</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with PVC integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Polyolefin integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Silicone integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with PEEK integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)

<b>The Non-Wireable types with Teflon integral wiring shall be marked</b>	
⊕ II 1G	⊕ 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
<b>The Wireable types shall be marked (metallic IP66/67/68 enclosures only)</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with PVC integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Polyolefin integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Silicone integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with PEEK integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Non-Wireable types with Teflon integral wiring shall be marked</b>	
⊕ II 1G	⊕ 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
<b>The Connector types shall be marked</b>	
⊕ II 1G	⊕ 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)
<b>The Connector type LFM versions shall be marked:</b>	
⊕ II 1G	⊕ 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
<b>The Non-Wireable types with PVC integral cable types shall be marked</b>	
⊕ II 1G	⊕ II 1D
Ex ia IIC T6 Ga (-20°C ≤ Ta ≤ +80°C)	Ex ia IIIC T75°C IP54 Da (-20°C ≤ Ta ≤ +70°C)
<b>The Non-Wireable types with Polyolefin integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)	
<b>The Non-Wireable types with Silicone integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)	
<b>The Non-Wireable types with Polyurethane (PUR) integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)	
<b>The Non-Wireable types with PEEK integral cable types shall be marked</b>	
⊕ II 1G	⊕ 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)	
<b>The Non-Wireable types with Teflon integral wiring shall be marked</b>	
⊕ II 1G	⊕ 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
<b>Range</b>								
MagnaProx / Euroswitch	ES	-						
FerroProx / FerroSwitch	FS	-						
Safety Switch	ES	-						
<b>Housing Style - MagnaProx</b>								
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					
<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
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					
<b>Approvals</b>								
ATEX/IECEX/UKEX Markings				2				
Multiple Certification Markings (Exia only)				E				
Other Regional Exia Certification Markings				F - Z				
<b>Material</b>								
Stainless Steel Housing					2			
<b>Cable Type</b>								
PVC Cable						1		
PVC Leads						1L		
Polyolefin Cable						2		
Polyurethane (PUR) Cable						3		
Teflon Leads						4L		
PEEK Leads						5		
Silicone Cable						6		
<b>Options (may be combined e.g. -D-E)</b>								
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, 1/2"NPT or 3/4"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
<b>Range</b>	MagnaProx / Euroswitch - Resin Series	RS	-					-	
<b>Housing Style</b>	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				-	
<b>Approvals</b>	ATEX/IECEX/UKEX Markings		-		2			-	
	Multiple Certification Markings (Exia only)		-		E			-	
	Other Regional Exia Certification Markings		-		F - Z			-	
<b>Material</b>	Plastic housing		-			0		-	
<b>Cable Type</b>	PVC cable		-				1	-	
	PVC Leads		-				1L	-	
	Polyolefin cable	Not V3	-				2	-	
<b>Options (may be combined)</b>	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 Item 20 – Certificate History

## 17 Specific Conditions of Use

- Non-metallic proximity sensors may pose an electrostatic risk. This should be taken into account during installation.
- 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.
- 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.
- 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.
- 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.
- 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
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21(1)	External effects
21(2)	Aggressive substances, etc.

**19 Drawings and Documents**

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
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 EUROSITCH

For all other drawings refer to Baseefa14ATEX0013X latest issue

**20 Certificate History**

Certificate No.	Date	Comments
BAS21UKEX0626X	29 November 2021	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0: 2018 and EN 60079-11: 2012 is documented in IECEx ExTR GB/BAS/ExTR21.0204/00 and held with Project No. 21/0381.
BAS21UKEX0626X Issue 1	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.
BAS21UKEX0626X Issue 2	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 atmosphere and configuration has been included in the description.  Report Number: GB/SGS/ExTR25.0148/00 Project Number: 23/0305
BAS21UKEX0626X Issue 3	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.