



防爆合格证

证号: GYJ18.1496X

由 Longvale Limited

制造的产品:

(地址: Lancaster Park, Needwood, Burton-upon-Trent, Staffordshire, DE13 9PD, United Kingdom)

名称 接近开关

型号规格 见附件

防爆标志 Ex d II C T4/T6 Gb, Ex tD A21 IP66/IP67 T85°C/T135°C

产品标准 /

图样编号 FA-53, FA-54, FA61, FA66, 70-000, GA-001, GA-002, GA-020, GA-022, GA-027

经图样及技术文件的审查和样品检验, 确认上述产品符合 GB 3836.1-2010、GB 3836.2-2010、GB 12476.1-2013、标准, GB 12476.5-2013

特颁发此证。

本证书有效期: 2018 年 12 月 7 日至 2023 年 12 月 6 日

- 备注
1. 安全使用注意事项见本证书附件。
 2. 证书编号后缀“X”表明产品具有安全使用特殊条件, 内容见本证书附件。
 3. 型号规格说明见本证书附件。
 4. 本安电气参数见本证书附件。

站长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇一八年十二月七日

本证书仅对与认可文件和样品一致的产品有效。

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EXPLOSION PROTECTION

CERTIFICATE OF CONFORMITY

Cert NO.GYJ18.1496X

This is to certify that the product

Euroswitch

manufactured by Longvale Limited

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

which model is Refer to attachment(s)

Ex marking Ex d IIC T4/T6 Gb, Ex tD A21 IP66/IP67 T85°C/T135°C

product standard /

drawing number FA-53, FA-54, FA61, FA66, 70-000, GA-001, GA-002, GA-020, GA-022, GA-027

has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010,GB 3836.2-2010,GB 12476.1-2013,GB 12476.5-2013

This Approval shall remain in force until 2023.12.06

Remarks

- 1.Conditions for safe use are specified in the attachment(s) to this certificate.
- 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
- 3.Model designation is specified in the attachment(s) to this certificate.
- 4.Intrinsic safety parameters specified in the attachment(s) to this certificate.

Director

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

Issued Date 2018.12.07

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

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国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ18.1496X)

(Attachment I)

GYJ18.1496X防爆合格证附件 I

由Longvale Limited生产的ES系列与FS系列接近开关, 经国家级仪器仪表防爆安全监督检验站(NEPSI)检验, 符合下列标准:

GB 3836.1-2010 爆炸性环境 第1部分: 设备 通用要求

GB 3836.2-2010 爆炸性环境 第2部分: 由隔爆外壳“d”保护的设备

GB 12476.1-2013 可燃性粉尘环境用电气设备 第1部分: 通用要求

GB 12476.5-2013 可燃性粉尘环境用电气设备 第5部分: 外壳保护型“tD”

产品防爆标志为Ex d IIC T4/T6 Gb, Ex tD A21 IP66/67 T85°C/T135°C, 防爆合格证号为GYJ18.1496X。

本证书认可的产品为:

ES *a b c d* - *e*, 其中:

a 可选代码为: 3, 4或5

b 可选代码为: 0, 3, A, B, C, D或F-Z

c 可选代码为: 2

d 可选代码为: 1或2

e 可选代码为: A~F, 5K, 10K, W, WL, WLR, WLRT 或其他与防爆无关代码

FS *a b c d* - *e*, 其中:

a 可选代码为: A~F, CYL-B或CYL-C

b 可选代码为: 0, 3, A, B, C, D或F-Z

c 可选代码为: 2

d 可选代码为: 1或2

e 可选代码为: D, E, 5K, 10K, W, WL, WLR, WLRT 或其他与防爆无关代码

ES - VDHA - *a*, 其中:

a 可选代码为: 1035, 700, 450

一、 产品安全使用特定条件

证书编号后缀“X”表明产品具有安全使用特殊条件:

1. 涉及隔爆接合面的维修须联络产品制造商。

2. 额定耐压1035bar的产品外壳由钛合金制成, 用户须采取有效措施防止产品外壳由于冲击或摩擦引起的点燃危险。

二、 产品使用注意事项

1. 产品使用环境温度范围：-60°C~+120°C。
2. 产品最高使用环境温度与防爆标志关系如下：

最高使用环境温度	防爆标志
+70°C	Ex d IIC T6 Gb, Ex tD A21 IP66/67 T85°C
+120°C	Ex d IIC T4 Gb, Ex tD A21 IP66/67 T135°C

3. 产品型号与电气参数关系如下：

型号	电气参数
ES a b c d - e	60W(24V DC, 2.5A或250V AC, 250mA)
	20W(24V DC, 830mA或250V AC, 80mA)
FS a b c d - e	24V DC, 3A, 110V AC, 4A或240V AC, 2A

4. 当产品安装于爆炸性气体环境时，其电缆引入口须配用经国家授权的检验机构认可的、符合国家标准GB 3836.1-2010和GB 3836.2-2010规定的、防爆等级为Ex d IIC Gb的、螺纹规格为M20×1.5或NPT 1/2的电缆引入装置或封堵件，最小啮合扣数为5扣，方可用于爆炸性危险场所。

5. 当产品安装于可燃性粉尘环境时，其电缆引入口须配用经国家授权的检验机构认可的、符合国家标准GB 12476.1-2013和GB 12476.5-2013规定、防爆等级为Ex tD A21、外壳防护等级为IP66/IP67的电缆引入装置或封堵件，方可用于爆炸性危险场所。

6. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

7. 用户在安装、使用和维护防爆终端盒时，须同时严格遵守产品使用说明书和下列标准：

GB3836.13-2013 爆炸性环境 第13部分：设备的修理、检修、修复和改造

GB/T3836.15-2017 爆炸性环境 第15部分：电气装置的设计、选型和安装

GB/T3836.16-2017 爆炸性环境 第16部分：电气装置的检查与维护

GB50257-2014 电气装置安装工程爆炸和火灾危险环境电气装置施工及验收规范

GB15577-2007 粉尘防爆安全规程

三、 制造厂责任

1. 制造厂必须将上述使用注意事项纳入产品的使用说明书中。
2. 制造厂必须严格按照NEPSI认可的文件资料生产。
3. 涉及产品防爆性能和温度的更改和维修，需提交NEPSI重新检验认可。
4. 产品铭牌中应至少包括下列内容：

a) NEPSI认可标志



b) 产品防爆标志

- c) 防爆合格证号
- d) 使用环境温度范围

国家级仪器仪表防爆安全监督检验站

二〇一八年十二月七日



Ex
NEPSI

国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ18.1496X)

(Attachment I)

Attachment I to GYJ18.1496X

Euroswitch types ES series and FS series manufactured by Longvale Limited has been certified by National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI), this product accords with following standards:

GB 3836.1-2010 Explosive atmospheres-Part 1: Equipment-General Requirements

GB 3836.2-2010 Explosive atmospheres-Part 2: Equipment protection by flameproof enclosures "d"

GB 12476.1-2013 Electrical apparatus for use in the presence of combustible dust-Part 1: General requirements

GB 12476.5-2013 Electrical apparatus for use in the presence of combustible dust-Part 1: Protection by enclosures "tD"

The Ex marking is Ex d IIC T4/T6 Gb, Ex tD A21 IP66/67 T85°C/T135°C. The certificate number is GYJ18.1496X.

Type designation:

ES *a b c d - e*:

a: 3, 4 or 5

b: 0, 3, A, B, C, D or F-Z

c: 2

d: 1 or 2

e: A~F, 5K, 10K, W, WL, WLR, WLRT or other Non-Ex related codes

FS *a b c d - e*:

a: A~F, CYL-B or CYL-C

b: 0, 3, A, B, C, D or F-Z

c: 2

d: 1 or 2

e: D, E, 5K, 10K, W, WL, WLR, WLRT or other Non-Ex related codes

ES - VDHA - *a*:

a: 1035, 700 or 450

1. Special condition for safe use

Suffix "X" denotes special condition for safe use:

- 1.1 Contact the original manufacturer for information on the dimensions of the flameproof joints.
 1.2 The 1035bar rated pressure sensing/switching element is manufactured from Titanium and must be physically protected from impact and friction (ignition hazard).

2. Condition for safe use

2.1 The ambient temperature: $-60^{\circ}\text{C}\sim+120^{\circ}\text{C}$.

2.2 The relation between the maximum ambient temperature and Ex marking as following:

Maximum ambient temperature	Ex marking
+70°C	Ex d IIC T6 Gb, Ex tD A21 IP66/67 T85°C
+120°C	Ex d IIC T4 Gb, Ex tD A21 IP66/67 T135°C

2.3 The relation between model and electrical parameters as following:

Model	Electrical parameters
ES <i>a b c d - e</i>	60W(24V DC, 2.5A or 250V AC, 250mA) 20W(24V DC, 830mA or 250V AC, 80mA)
FS <i>a b c d - e</i>	24V DC, 3A, 110V AC, 4A or 240V AC, 2A

2.4 When the products installed in the explosive gas atmosphere, the cable entries shall be fitted with suitable certified cable gland or blanking elements fulfills requirements of GB 3836.1-2010 and GB 3836.2-2010, with Ex marking of Ex d IIC Gb and thread type of $\text{M20}\times 1.5$ or NPT 1/2 with minimum 5 engaged threads.

2.5 When the products installed in the atmosphere of combustible dust, the cable entries shall be fitted with suitable certified cable gland or blanking elements fulfills requirements of GB 12476.1-2013 and GB 12476.5-2013, with Ex marking of Ex tD A21 and ingress protection IP66/67.

2.6 In order to avoid damage to the product, the user shall not change any parts of the product and the manufacturer shall be consulted when there is any problem during the usage.

2.7 During the installation, using and maintenance, the user shall following the instruction and following standards:

GB3836.13-2013 Explosive atmospheres-Part 13: Equipment repair, overhaul and reclamation

GB/T3836.15-2017 Explosive atmospheres-Part 15: Electrical installations design, selection and erection

GB/T3836.16-2017 Explosive atmospheres-Part 16: Electrical installations inspection and maintenance

GB50257-2014 Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering



GB15577-2007 Safety regulations for dust explosion prevention and protection

3. Manufacturer's Responsibility

3.1 Special condition for safe use specified above should be included in the instruction manual.

3.2 Manufacturing should be done according to the documentation approved by NEPSI.

3.3 Any modification with influence on the type of protection should be submitted to NEPSI before application.

3.4 Following items should be added to the nameplate

3.4.1 NEPSI logo



3.4.2 Ex marking

3.4.3 Number of certificate

3.4.4 Ambient temperature range

**National Supervision and Inspection Center
for Explosion Protection and Safety of Instrumentation**

December 7th, 2018