



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/21/CA/00001X

Contract Number: 801202
Certificate Project Number: BAS-CERT210100002

Certified Product: Fortress' EXP Ex Rated Interlock Products
Trademarks: EXPXL411: Fortress' Alfred; EXPXL416, EXPKL461, EXPXL471, EXPXT401: -
Model(s): EXPXL411, EXPXL416, EXPKL461, EXPXL471, EXPXT401
Technical Data:

Certificate Holder: Fortress Interlocks Ltd
2 Inverclyde Drive, Wolverhampton, WV4 6FB

This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at www.sgs.com or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:

CAN/CSA C22.2 No. 60079-0:19
CAN/CSA C22.2 No. 60079-1:16
CAN/CSA C22.2 No. 60079-31:2015, 2nd Ed.
UL 60079-0, 7th Ed. Rev. March 26, 2019
UL 60079-1, 7th Ed. Rev. September 18, 2015
UL 60079-31, 2nd Ed. June 12, 2015

Authorized by:

Effective date: 16 November 2021



Ron Sinclair
Certifier



Certification Body

Consumer and Retail Services, a division of SGS North America Inc.
620 Old Peachtree Road, Ste. 100, Suwanee, GA 30024, USA
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Product description

Fortress' EXP Ex rated interlock products are a range of electromechanical Solenoid Controlled Guard Locking Devices and Interlocking Devices that can be used to add electronic locking control and monitoring to a variety of machine guarding and key interlocking applications for use in hazardous areas. All products will have the part number prefix 'EXP' and can be defined using the following part number structure:

Ex Rated Solenoid Controlled Guard Locking or Key Interlocking Devices;

- Part Number; EXP z XL y x

Ex Rated Interlocking Switch Devices;

- Part Number; EXP z XT w x

Where;

z = Mechanical modules from Fortress' Alfred product range or Fortress' amGardpro product range.

y = Switching and Solenoid information for Fortress Alfred Ex Rated Solenoid Module.

x = Optional mounting plate assembly.

w = Switching information for Fortress Alfred Ex Rated Safety Switch Module.

All product types listed above are rated at 24V DC and 350mA and contain either an Ex Rated Solenoid Module or Ex Rated Safety Switch Module housed within a stainless steel flameproof 'db' type enclosure.

The Fortress Ex Rated Solenoid Module comprises of a stainless steel enclosure and lid assembly. Internally the Solenoid Modules are fitted with a PCB, solenoid sub assembly, switchbank sub assembly and an actuator sub assembly which contains a plunger which forms a cylindrical joint with the enclosure body. The plunger interfaces with the head housing where keys or actuator assemblies are manually operated by the end user.

The Solenoid Modules may also be fitted with an optional Auxiliary release/override which forms a cylindrical joint with the enclosure lid, which is manually operated.

The Ex Rated Solenoid Module is available in one of the following variants;

- XL411 – Power-to-Unlock, Safety-On-Guard-Locking
- XL416 – Power-to-Unlock, Safety-On-Guard
- XL471 – Power-to-Lock, Safety-On-Guard-Locking
- XL461 – Power-to-Lock, Safety-On-Guard

The Fortress Ex Rated Safety Switch is also comprised of a stainless steel enclosure and lid. Internally the Safety Switch Module is fitted with a PCB, switchbank sub assembly and an actuator sub assembly which contains a plunger which forms a cylindrical joint with the enclosure body.

The Ex Rated Safety Switch Module is available in the following variant;

- XT401 – 2NC, 1NO Safety Switch

The lids for both the Ex Rated Solenoid and Safety Switch Modules are secured to the enclosure bodies using ten stainless steel button head Torx screws of grade A2-70.

An M20 cable entry hole is provided in the end of each enclosure body opposite to the plunger as specified on the certification drawings for the accommodation of suitable UL2225/C22.2 No 174-18 equipment certified cable entry device.

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Conditions of Acceptability

1. It is the responsibility of the installation engineer to ensure that a suitable Ex db IIC UL2225/C22.2 No 174-18 equipment certified cable gland is installed, which meets the IP rating of IP67, to ensure that this is maintained on the enclosure.
2. Flameproof joints are not intended to be repaired.
3. Replacement fasteners must be identical to those as detailed by the manufacturer. The specification of these are M8 x 14mm, property class of A2-70 with a minimum yield strength of 700 MPa to ISO 3506, ISO 262, ISO 965-1 and ISO 965-3.
4. When used in a potentially explosive dust atmosphere, the adhesive labels and non-metallic coatings may store electrostatic charge and become a source of ignition. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the adhesive labels and non-metallic coatings should only be done with a damp cloth.

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