

Certificate



No.: 968/FSA 1155.00/18

Functional Safety Assessment

Certificate Holder

Operational UK Limited
The Innovation Centre, Keckwick Lane
Daresbury, Cheshire, WA4 4FS
United Kingdom

Subject

Documentation of the intended design of the of the Operational LEL System

Type Designation

ExSis Cat
ExSis IR
Series 57 IR
Series 57 Cat

Codes and Standards

EN ISO 13849-1:2015

Scope and Result

The Operational LEL Systems ("Lower Explosive Limit") shall detect hazardous levels of a combustible gas or solvent vapour that can occur in chemical & dryer processes.

Any one or more of the four independent systems ExSis Cat, ExSis IR, Series 57 IR and Series 57 Cat are incorporated in the Operational LEL Systems design as used in solvent monitoring installations. These four systems incorporate 4 different safety loops operating in a high demand mode of operation.

According to the EN 1539:2015 the LEL system shall fulfil the requirements of PL d according to EN ISO 13849-1. A specific category is not required.

The intended designs of the Operational LEL Systems comply with the requirements of PL d acc. to EN ISO 13849-1 and can be used in safety related applications up to this level.

The intended design of the Operational LEL Systems was also reviewed in reference to the requirements of EN 1539 chapter 5.9.2.2.4 and can be used in application as such.

The selected gas monitoring systems are type approved by a notified body according to EN 60079-29-1 as required by EN 1539 chapter 5.9.2.2.3.

Specific Provisions

The instructions of the associated Installation, Operating and Safety Manuals of the devices shall be considered.

Valid until 2023-08-31

The assessment report-no.: 968/FSA 1155.00/18 dated 2018-08-31 is an integral part of the certificate. This certificate is specifically valid for the above mentioned system/subsystem/safety function only. It becomes invalid, if any unapproved changes are implemented without prior assessment/approval by the certification body. Authenticity and validity of this certificate can be verified through the above indicated QR-code or at <http://www.fs-products.com>.

TÜV Rheinland Industrie Service GmbH

Bereich Automation
Funktionale Sicherheit

Am Grauen Stein, 51105 Köln

Köln, 2018-08-31

Certification Body for FS-Applications

Dr.-Ing. Thorsten Gantevoort