



ENGINEERING SAFETY CONSULTANTS

The Global Provider of Functional Safety Expertise and Technical Consultancy

Certificate of Conformity to IEC 61508 Safety Integrity Level (SIL) 2

Functional Safety of Safety-Related Programmable Electronic Systems

Manufacturer: Tyco Fire & Security GmbH (TFSG), Victor Von Bruns-Strasse 21,
8212 Neuhausen am Rheinfall, Schaffhausen, Switzerland

The **TFSG, 850Ex Weatherproof Call Point** has been assessed and is considered capable for use in a low demand Safety Function up to SIL 2 capability with regards to systematic (assessed under the Prior Use route), random failure rates and architectural constraints.

The assessment was based on the assumptions, data provided, and recommendations given in:

- **ESC Ltd Report: J195_SA001 rev. 1.**

The assessment was carried out to determine compliance with IEC 61508 (2010 Edition) with regards to:

- Random Hardware Failure with Predicted PFD $<3.0E-03$ (assuming a 1 year proof test and average repair time of 168 hours);
- Architectural Constraint (Type B, SFF $>90\%$, $<99\%$), HFT = 0;
- Systematic SIL 2 capability against IEC 61511 Prior Use.

IMPORTANT: It should be noted that this assessment does not include confirmation of the response time of the device. For response times (along with any relevant assumptions) reference should be made to the Safety Manual of each device and the total SIF response time **MUST** be compared against the process safety time for the specific application.

Managing Director: Kenneth G L Simpson
Member of the IEC 61508 committee

Assessment Date: February 2020, valid to February 2022

Certificate: J195_CT001 rev. 1

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