



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

The **Apollo Fire Detectors Ltd, Manual Call Points** have been assessed and are considered capable for use in a low demand Safety Function up to SIL 2, in terms of random failure rate and architectural constraints.

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

- **Technis Report No. T662 Issue 1.2;**
- **Renewal Letter from Apollo Fire Detection Ltd, signed by Chris Ellis, Head of Compliance, dated 22nd September 2020.**

The certified devices can only achieve SIL 2 if used in conjunction with a fire alarm control panel that supports all elements of the Apollo protocol, including full fault diagnostic.

Products covered by this certificate should carry the applicable Technic report number.

The system assessed comprises the following modules:

- 55200-940 SIL Intrinsically Safe Call Point
- 58200-951 SIL Isolated Call Point

The assessment was carried out to determine compliance IEC 61508 with regards to:

- Random Hardware Failures (providing a minimum proof test interval of one year and a repair time of a detected failure of 24 hours has a PFD of <1E-04), and;
- Architectural Constraints (Type B, SFF >91%).

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.

Chairman: Kenneth G L Simpson
Member of the IEC 61508 committee
Assessment Date: December 2012

Renewal Date: October 2020, valid to October 2022

Certificate: A191_CT006 rev. 5

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body

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