



# ENGINEERING SAFETY CONSULTANTS

The Global Provider of Functional Safety Expertise and Technical Consultancy

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

### Functional Safety of Safety-Related Programmable Electronic Systems

The **Company Z Ltd, Product Y** has been assessed and is considered capable for use in a low demand Safety Function up to SIL x

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

- Random Hardware Failure (Predicted failure rate per year);
- Architectural Constraint (Type ?, SFF W%)
- Systematic Capability of SC y

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

- **ESC Ltd Report: XX00\_YY00 (rev.0)**

The product was assessed against the following failure modes:

- Failure mode 1
- Failure mode 2
- Failure mode n

The system assessed comprises the following modules/sub-elements:

- Module 1
- Module 2
- Module m

The assessment results are as follows:

Module	Failure mode	Random Hardware Failure	Architectural Constraint	Systematic Capability	SIL Capability
1	Mode 1	PFD/PFH	SFF	SC y	SIL x
2	Mode 2	PFD/PFH	SFF	SC y	SIL x

[SIGNATURE]

Managing Director: Kenneth G L Simpson

Member of the IEC61508 committee

Assessment Date: Month Year, valid to Month Year

Certificate: XX00\_YY00(Rev.0)



Reg:12Q12086

### ENGINEERING SAFETY CONSULTANTS LTD

Tuition House

27-37 St George's Road Wimbledon London SW19 4EU UK

Telephone/Fax: +44 (0)20 8542 2807

E-Mail: [info@esc.uk.net](mailto:info@esc.uk.net) Web: [www.esc.uk.net](http://www.esc.uk.net)

Registered in England and Wales: 7006868

Registered Office: 27-37 St George's Road Wimbledon London SW19 4EU