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**Certificate of Conformity to IEC 61508 / IEC 61511**  
**Assessed in terms of systematic capability for use**  
**in system up to SIL 3.**

**For random integrity the whole final element**  
**configuration must be verified for each application.**

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

The **Matic Camtorc (series) Valve Actuator produced by IMTEX CONTROLS Ltd** has been assessed and is considered capable in terms of systematic capability for use in systems up to SIL 3 low demand safety functions. As this device only forms part of a final element the random failure rate SIL integrity must be verified for each application configuration.

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

- **Technis Report No. T674 Issue 2.0;**
- **ESC assessment report B134\_FSA001\_(5.0).**

The system was assessed against failure mode:

- **Single Solenoid valve, fail to release.**

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

- Random Hardware Failures against IEC61508 (2010 edition);
  - Predicted failure rate  $<0.5E-6$  per hour and;
  - Architectural Constraints Type A
    - No partial stroke test, SFF  $>60 <90\%$  (simplex configuration up to SIL 2);
    - With partial stroke test, SFF  $>90 <99\%$  (simplex configuration up to SIL 3).
- Systematic against IEC 61511, prior use, suitable up to SIL 3.

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Member of the IEC61508 committee  
Renewal Date: December 2016, valid to December 2018  
(B134\_FSA001 assessment conducted in 23/02/2013)  
Certificate: B134\_CT001\_(4.0)



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