In compliance with:

**CEN ISO 13849-1:2015**

Safety of machinery, safety related parts of control systems Part 1: general principles of design

**MTTFd EDIX Series**

**B10d** rating based on the calculated assumptions below is:-

= 1,200,000 cycles


≡ Performance Level d (CEN ISO 13849-1. Table 2)
≡ Safety Integrity Level 2 (CEN ISO 13849-1. Table 3)
≡ MTTFd denotation HIGH (CEN ISO 13849-1. Table 4)

\[ \text{tcycle, mean time between two successive cycles} \]
\[ \text{hop, mean operation in hours per day} \]
\[ \text{dop, mean operation in days per year} \]
\[ \text{nop = (dop x hop x 3600) / tcycle} \]
\[ \text{B10d no. cycles until 10% of components fail dangerously} \]
\[ \text{MTTFd = B10d / (0.1 x nop)} \]
\[ \text{\( \lambda_d = (0.1 \times \text{nop}) / (\text{B10d} \times 220 \times 8) \)} \]

\[ \text{6,818.18 years} \]

\[ \text{8.33 E-08 per operating hour} \]

**Neal Partridge**

Head of Compliance