Reliability Prediction

Typ designation: LBFS Level Switch

Material number: 5550-544
Status: Serie
Operating temperature [°C]: 40
Operating voltage range [VDC]: 12.5 - 36

Calculation base:
Calculation method Part Count
MTTF(d)-Components (Worst Case) Factor 10
50% hazardous failures Factor 0.5
Environment temperature [°C]: 40
Operating conditions Nominal load
MTTF-base values (remaining parts) MIL-HDBK 217F, Notice 2 / RDF 2000
Environmental conditions Ground fixed, 40°C
Conditions constant failure rate

Total: Worst Case
Mean time to dangerous failure MTTF(d) [year] > 90
Mean time to dangerous failure MTTF(d) [hours, h] > 788'400
Probability of a dangerous failure per hours [1/h] < 1.27E-06

Remarks:
- The values of applicable EN-ISO calculation method refers to worst case conditions, which are improved by factor 2 compared to calculation according to MIL-HDBK-217.
- Typical values by considering of effective applications can be improved up to factor 5.
- The resulting MTTF(d) values judges not the safety of the product. It is a calculation or estimation of the random failures, which causing based on random hardware failures as a result of limited reliability of components.