

Manufacturer's Declaration

Siemens AG Industry Sector Building Technologies Division

Product: Flame detectors QRA50... / QRA51...

Approval: As per EN 298 / EN 230

Use: In connection with Siemens flame safeguards LFE50 for gas- or oil-fired combustion plants.

The flame detectors are suited for use in safety-related systems up to and including SIL3.

The UV cell ARG450240650 used by the QRA51... has a life expectancy of about 10,000 hours (50 °C).

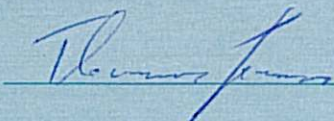
The QRA51... monitor and detect the end of their service life and have a self-critical behavior (self-checking by applying a higher test voltage and by using an alternating shutter).

Characteristics as per EN 13849:MTTF_D = 150 years


$$PFH_D = \lambda_D = 7.61 \cdot 10^{-7}$$

Rastatt,

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i. V. Thomas Gnoss
CPS FDO OEM CCS TS



i. V. Martin Sink
CPS FDO QM