



MTBF for AXIS Q4809-PVE

The calculated MTBF for the AXIS Q4809-PVE is > 150,000h.

The MTBF (Mean Time Between Failures) for this product is equal to the MTTF (Mean Time To First Failure) which is a theoretical estimate, calculated according to the formula below. The figure is valid at an operating temperature of +25°C:

$$\text{MTBF} = 1 / (\sum n_i \times \text{FR}_i)$$

where n_i = Total number of components of type 'i'
 FR_i = Failure rate (number of failures per hour) specified for component 'i'.

Lund, 2024-12-03

Jimmy Loven
 Axis Communications AB

Lifetime of specific components for AXIS Q4809-PVE

Timekeeping battery: Expected to last at least 5 years. When the product is in use (i.e. connected to power) expected lifetime is more than 10 years.

Mechanics:

PTR motors: 200 cycles

SD card holder: 5000 insertion/removal cycles

RJ45 connector: 750 mating cycles


Audio connector: 5000 mating cycles

I/O connector: 10 mating cycles

Control button: 1 000 000 cycles

Fan: 70 000 hrs

Lund, 2024-12-03



Jimmy Loven
Axis Communications AB