MTBF for AXIS Q3546-LVE 51MM Q3556-LVE 51MM

The calculated MTBF for the AXIS Q3546-LVE 51MM is > 150,000h.
The calculated MTBF for the AXIS Q3556-LVE 51MM is > 150,000h.

The MTBF (Mean Time Between Failures) for this product is equal to the MTTFF (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:

$MTBF = 1 / (\Sigma n_i \times FR_i)$

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

Lund, 2025-02-07

Jon Wicksell
Axis Communications AB

Lifetime of specific components

for

AXIS Q3546-LVE 51MM

AXIS Q3556-LVE 51MM

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:	SD card holder: 5000 insertion/removal cycles RJ45 connector: 750 insertion/removal cycles Button: 200 000 pushes
Optics package:	Focus motor: 1 000 000 cycles Zoom motor: 1 000 000 cycles Iris motor: 500 000 cycles IR cut filter: 100 000 cycles
IR illumination:	43 000 hrs
Fan:	30 000 hrs

Lund, 2025-02-07

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