Improved Resiliency of Contact Inputs

The following safeguards have been implemented to improve the resiliency of the contact inputs in noisy environments and to guard against contact degradation:

Debouncing and Filtering

A filter is used to reliably remove ringing (contact bounce during opening or closing of mechanical switches or relays) and eliminate any AC power artifacts that might be present.

Qualification Period

Attaching a qualification timer to each contact input ensures that a valid and stable signal is present for a preset amount of time before the input transitions in and out of alarm state.
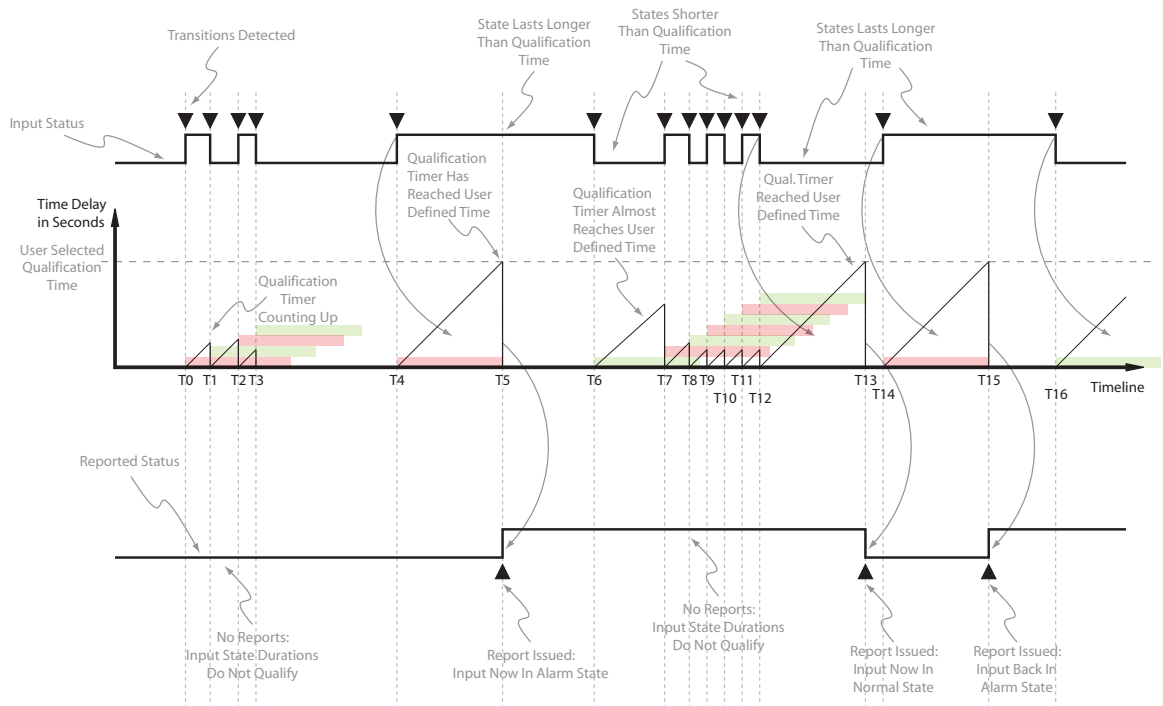

Figure 1.2   Qualification Timer