

E.8 Timer

The symbol for timer is shown in Figure E.10

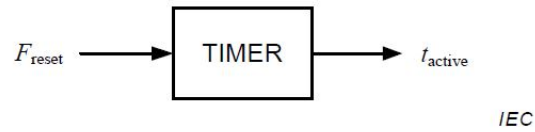


Figure E.10 – Block symbol for timer

The function of the timer is illustrated in Figure E.11. The output time t_{active} is reset to 0 whenever the input flag F_{reset} is 1 (TRUE), and updated whenever F_{reset} is 0 (FALSE).

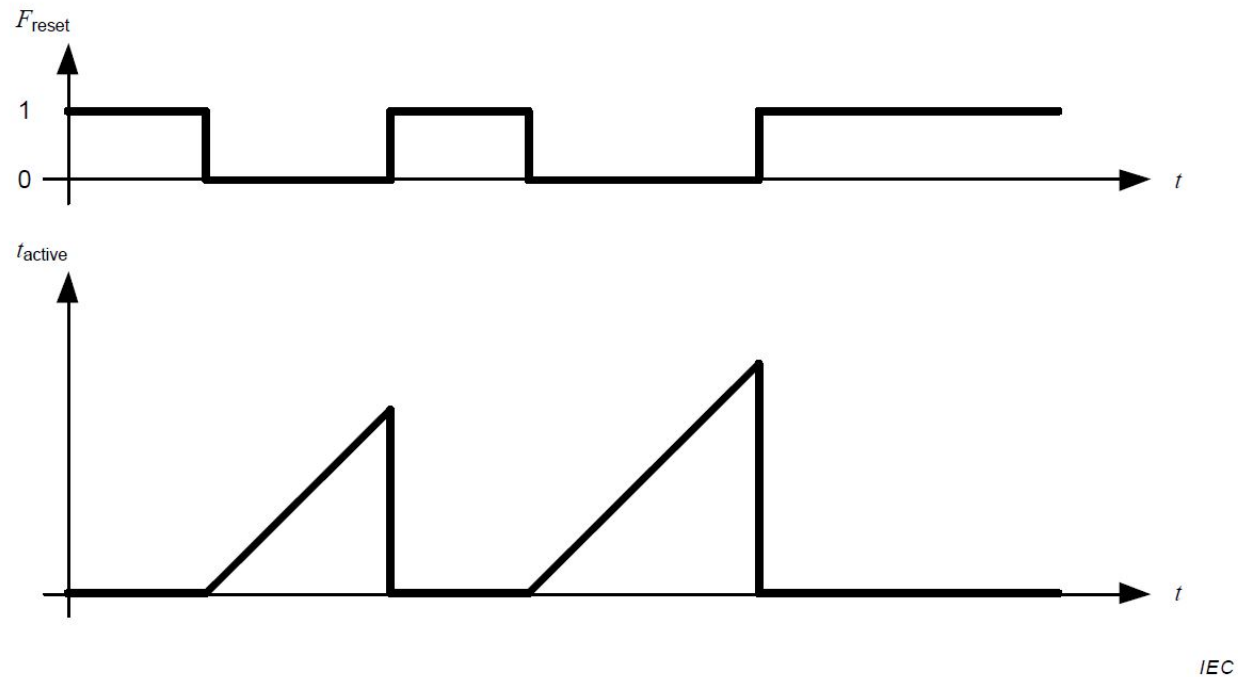


Figure E.11 – Function of timer

Formally, this timer calculates the time t_{active} according to (E.3).

$$t_{\text{active}} = t - t_{\text{reset}} \quad (\text{E.3})$$