



Timer SMR - Multi-function with 1 Changeover 11.25mm housing

Application

Time control

Description

The **SMR Multi-function timer** offers 6 selectable timing functions and 8 different timing intervals in one unit. The function and timing intervals can be adjusted with DIP switches on the front panel of the relay. The multi-function timer can operate on either AC or DC voltage using two separate connections. To connect to 230V AC the terminals A1 and A2 are used. For a connection with 24V DC use the terminals A3 and A2. The green LED indicates the connection to the power supply. Timing commences with the connection of the power supply or with a potential-free control contact connected to the terminals B1 and B2.

Function

Delay-on operate: Timing begins with the connection of the power supply. After the set time has elapsed, the output relay is energized. The red LED indicates the working position of the output contact. If the supply voltage is disconnected, the output relay resets and the elapsed time is cancelled. If the supply voltage is disconnected during the reset time, the timer returns to its original state.

Delay-on release: Continuous presence of the power supply connected to the terminals A1 and A2 or A3 and A2 is required for timing. The activation of the timing function is accomplished with a potential-free control contact, which is connected to the terminals B1 and B2.

Part number

011089

SMR Multi-function timer
8 Timing ranges / 1 Changeover

If this control contact is closed then the output relay is energized. With the opening of the control contact, the timer is started, and the set time begins to count down. After the delay time has elapsed, the output relay is de-energized. If during or upon completion of the timing function the control contact is closed and reopened, the timing period begins again. This also applies if the supply is disconnected during the timing period.

Pulse-on operate: The timing begins with the connection of the power supply to the terminals A1 and A2 or A3 and A2. After applying the power supply the output relay is energized without delay and is de-energized after the pulse set time has elapsed. The red LED indicates the working position of the output relay. If the power supply is disconnected before the set pulse time has elapsed, the output relay is de-energized with no delay. This also applies if the supply is disconnected during the timing period.

Pulse-on release: Continuous presence of the power supply connected to the terminals A1 and A2 or A3 and A2 is required for timing. The activation of the timing function is accomplished with a potential-free control contact, which is connected to the terminals B1 and B2. When the power supply is applied, the control contact is opened, the output relay is energized and the timing is started. The output relay stays active for the set pulse time and is de-energized after this time has elapsed. The red LED indicates the working position of the control contact. If during or upon completion of the timing function the control contact is closed and reopened, the timing period begins again. This also applies if the supply is disconnected during the timing period.

Flasher beginning with on: The timing begins with the connection of the power supply to the terminals A1 and A2 or A3 and A2. The timing cycle begins with a pulse. After completion of the selected delay time the output relay switches to its rest position. After renewed completion of the selected timing cycle the relay energizes to its working position. The red LED indicates the selected interval time of the output relay. This cycle repeats as long as the power supply is connected. Should the power supply be disconnected during the reset time, the timer returns to its original state. This also applies if the supply is disconnected during the timing period.

Flasher beginning with off: The timing begins with the connection of the power supply to the terminals A1 and A2 or A3 and A2. The timing cycle begins with a pause. After completion of the selected delay time the output relay is energized. This operation is indicated by the red LED. After completion of the selected timing cycle the relay returns to its rest position. This cycle repeats as long as the power supply is connected. Should the power supply be disconnected during the reset time, the timer returns to its original state. This also applies if the supply is disconnected during the timing period.

Timer
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 11.25mm housing

Options

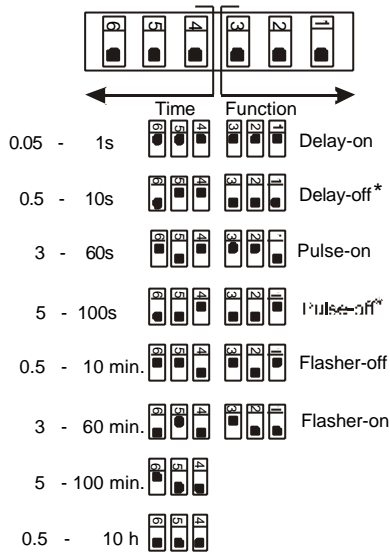
Other timing ranges and voltages available upon request.

Timing ranges

8 timing ranges adjustable with DIP switches

0.05 – 1 s	0.5 – 10 min
0.5 – 10 s	3 – 60 min
3 – 60 s	5 – 100 min
5 – 100 s	0.5 – 10 h

DIP switch adjustments



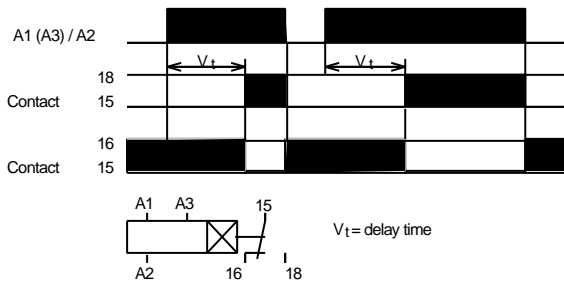
* with potential-free control contact

Approvals

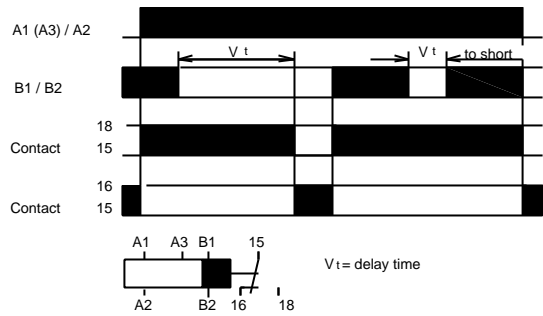


Function diagram

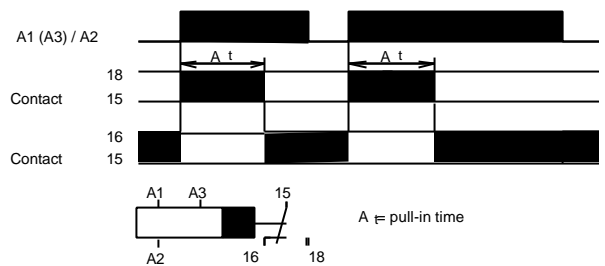
Delay-on operate



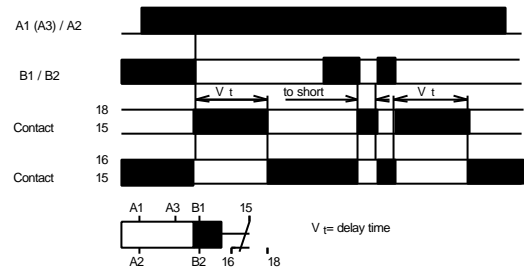
Delay-on release



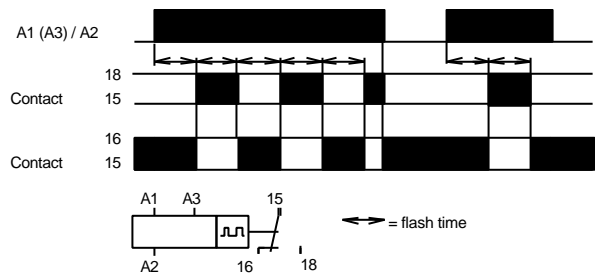
Pulse-on operate



Pulse-on release



Flasher beginning with off



Flasher beginning with on

