

TIMING SWITCH

CS3-16

MULTIFUNCTIONAL FOR HIGHER LOADS

- 8 functions in one connection, period of time in the range from 0.5 s to 20 hours
- switching element is power relay
- mounting under the control element



DESCRIPTION

CS3-16 timing switch is a multifunctional relay with possibility to set eight functions. Switching element is relay 16 A for control bigger loads (see table Specifications).

TIME SETTING

is linear, possible in the range from 0.5 s to 20 hours. The coarse setting is made by miniature switch according to table and fine setting by trimmer with using of a small screwdriver. Thanks to special circuit used, a long-term stability of the time set is ensured, without substantial dependence on time, ambient temperature and supply voltage.

ON OFF



ON OFF



0.5 s - 10 s



1 s - 20 s



10 s - 3 min 20 s



30 s - 10 min

ON OFF



1 min - 20 min



10 min - 3 h 20min



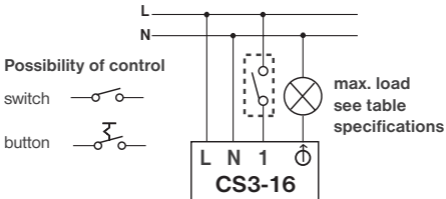
30 min - 10 h



1 h - 20 h

For intervals shorter than 20 s, max. number of switching on amounts to 3/min.

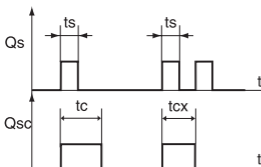
WIRING DIAGRAM



SETTING THE FUNCTION

1. Timing relay with interrupt option

the load is activated on and the timing starts immediately after pushing the button. Further pushing the button in the course of timing deactivates the load.



t_s = interval of switching on
 t_c = the time set on CS3-16
 t_{cx} = interrupt ($t_{cx} < t_c$)

ON OFF

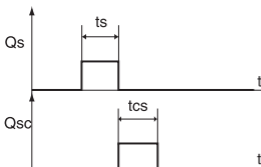


Position of switch

E.g.: staircase time-switch

2. Delayed switching off

the load is activated at the moment of button disconnection, after timing the load is deactivated (**similar to CS3-1**).



t_s = interval of switching on
 t_{cs} = interval of appliance running

ON OFF

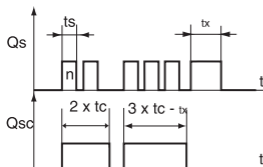


Position of switch

E.g.: bathrooms, toilets

3. Multi-timing relay with blocking

the number of pushing the button (max. for 5 times) increases the time interval set. The sixth pressing zeroes the interval. If you press the button for approx. 3 s in the course of timing, the load is deactivated.



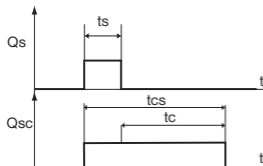
- t_s = interval of switching on
- t_x = interrupt ($t_s=3s$)
- t_c = the time set on CS3-16
- $t_{cx} = n \times t_c$ ($n < 5$)



E.g.: staircase time-switch

4. Delayed switching off without blocking

the load is activated on immediately after pushing the button, but the timing starts after button is disconnection (**similat to CS3-4**).



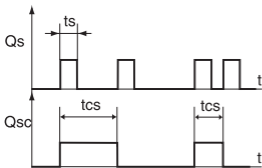
- t_s = interval of switching on
- t_c = the time set on CS3-16
- $t_{cx} = t_c$



E.g.: staircase time-switch

5. Impulse relay (controlled from more locations)

pressing the button activates the load, further pressing the button deactivates the load. It is not important, how long the button is pressed..



t_s = interval of switching on
 t_{cs} = interval of appliance running

ON OFF

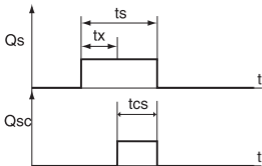


Position of switch

E.g.: the load is controlled from more locations

6. Delayed switching on

when the button is pressed, it times the set time (delay), afterwards activates the load that is activated up to button disconnecting.



t_s = interval of switching on
 t_x = the delay set on CS3-16
 t_{cs} = interval of appliance running

ON OFF

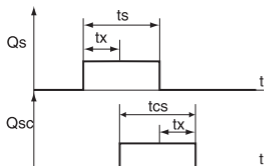


Position of switch

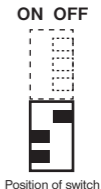
E.g.: bathrooms, toilets

7. Delayed switching on and off

when the button is pressed, it times the set time (delay), afterwards the load is activated. After button disconnecting, the load is deactivated with the same delay as set. If is button disconnecting during first delay then function is not canceled and timing is same as set.



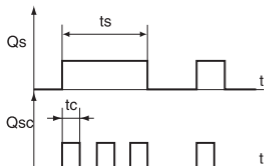
t_s = interval of switching on
 t_x = the delay set on CS3-16
 t_{cs} = interval of appliance running



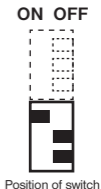
E.g.: bathrooms, toilets

8. Flasher

when the button is switched on permanently, it activates the load in time intervals set 1:1.



t_s = interval of switching on
 t_c = the time set on CS3-16



E.g.: illuminated advertisements, warning lights

SPECIFICATIONS

Power supply	230 V/ 50 Hz
Switching element	relay, 16 A
Lamp	2000 W
Fluorescent lamp	750 W (max.5 PCS)
Economy lamp	max. 5 PCS
Squirrel cage motor	450 VA
Max. cross sect. area of inst. Cu cond.	0,5 mm ²
Protection	IP20 and higher according to the mounting
Working temperature	0°C to +35°C

Setting the time and installation should be performed on system that is not live and by a person with appropriate qualification in electrical engineering.

Summary of produced types

- CS3-1** activates the ventilator after switching the light off.
- CS3-1B** activates the ventilator in setting time after switching the light on and deactivates in setting time after switching the light off.
- CS3-2** timing switch for lighting.
- CS3-4** is switched on immediately after pushing the button, but the timing itself starts only after disconnecting - connection without neutral lead.
- CS3-4B** similar to CS3-1B, connection without neutral lead.
- CS3-4M** multifunctional timing switch - connection without neutral lead.

CERTIFICATE OF GUARANTEE (guarantee period for the product amounts to 2 years)	
product No.:	date of sale:
examined by:	stamp of shop:

Send the timing switch for guarantee and after-guarantee service to manufacturer's address.

TIMING SWITCH

CS3-16

MULTIFUNCTIONAL FOR HIGHER LOADS

The possibility to set 8 functions:

- **Timing relay with interrupt option** - the load is activated on and the timing starts immediately after pushing the button. Further pushing the button in the course of timing deactivates the load.
- **Delayed switching off (similar to CS3-1)** - the load is activated at the moment of button disconnection, after timing the load is deactivated.
- **Multi-timing relay with blocking** - the number of pushing the button increases the time interval set. If you press the button for approx. 3 s in the course of timing, the load is deactivated.
- **Delayed switching off without blocking** - the load is activated on immediately after pushing the button, but the timing starts after button is disconnection.
- **Impulse relay (controlled from more locations)** - pressing the button activates the load, further pressing the button deactivates the load.
- **Delayed switching on** - when the button is pressed, it times the set time (delay). Afterwards it activates the load that is activated up to button disconnecting.
- **Delayed switching on and off** - when the button is pressed, it times the set time (delay), afterwards the load is activated. After button disconnecting, the load is deactivated with the same delay.
- **Flasher** - when the button is switched on permanently, it activates the load in time intervals set 1:1 (illuminated advertisements etc.).



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