

Front Panel Analog Timers TMR48

48x48 mm

TMR48 U, TMR48 L, TMR48 X, TMR48 A Series



12-240 VDC /
24-240 VAC



IP40



11 Pins



8 Pins

Electrical Control & Protection > Timer Relays > Front Panel > **Analog**

Highlights

- Multifunction or mono-function
- Multi-range 0.02 s - 300 h
- Multi-voltage 12-240 VDC / 24-240 V AC
- Time setting displayed on dial
- 2 changeover relays 5 A / 250 VAC
- Display of power and output states by 2 LEDs
- Housing 48x48 mm
- Nominal rating: 2x5 A

Part Numbers

88886016



Functions: A - Ac - B - Bw - C
- G - W

Series: TMR 48 U

88886516



Functions: G - Gi - L - Li

Series: TMR 48 L

88886116



Functions: A1 - A2 - D/Di - H1
- H2 - Q1 - Q2

Series: TMR 48 X

88886106



Functions A

Series: TMR 48 A

More info.

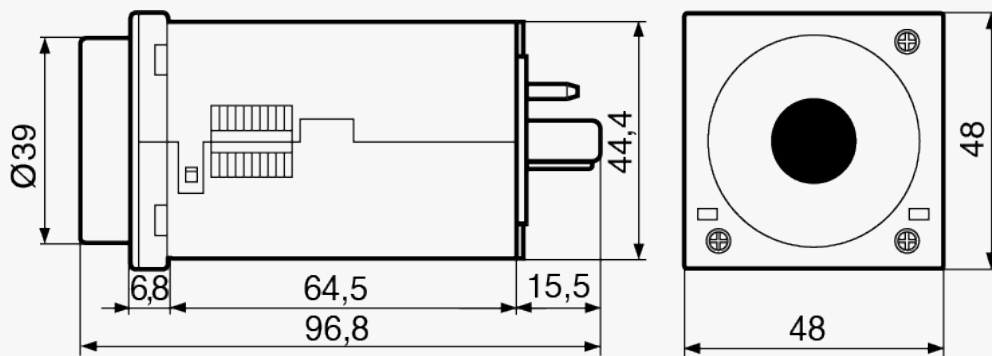


Specifications

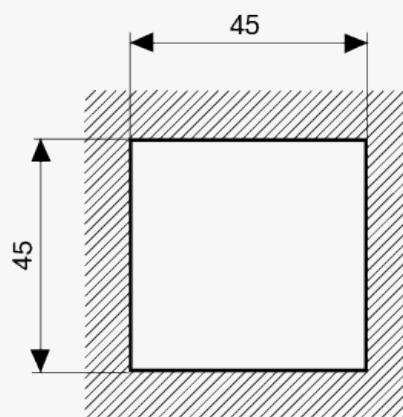
Specifications		88886016	88886516	88886116	88886106
Inputs					
Supply voltage		12-240 VDC / 24-240 VAC			
Voltage supply tolerance		± 10% DC supply -15% / +10% AC supply			
AC supply voltage frequency		50/60 Hz			
Max power consumption at Un		4.8 VA / 230 VAC 2.5 VA / 110 VAC 1.1 VA / 24 VAC 0.5 W / 24 VDC 0.8 W / 12 VDC			
Timing					
Timing ranges		0.02 s - 1.2 s, 0.05 s - 3 s, 0.2 s - 12 s, 0.5 s - 30 s, 2 s - 120 s, 5 s - 300 s, 0.2 min - 12 min, 0.5 min - 30 min, 2min - 120 min, 5 min - 300 min, 0.2 h - 12 h, 0.5 h - 30 h, 2 h - 120 h, 5 h - 300 h			
Minimum control pulse duration		START: 25 ms GATE: 60 ms RESET: 60 ms			
Recovery time (after by de-energization)		50 ms			
Setting accuracy (full range)		± 0.5% of full scale at 25°C (typical with constant parameters)			
Drift temperature		± 0.05% of full scale			
Outputs					
Outputs configuration		2 timed changeover relays	2 changeover relays or 1 timed and 1 instantaneous	2 timed changeover relays	
Maximum switching voltage		5 A / 250 VAC			
Electrical life (operations)		10 ⁵ cycles			
Minimum breaking current		10 mA			
Mechanical life (operations)		30x10 ⁶ cycles			
Rated power		2000 VA			
Insulation					
Rated insulation voltage		250 VAC			
Dielectric strength		2 kV			
General characteristics					
Display		No, but status indicator. Green: power ON Flashing during timing Yellow: ON output ON OFF output OFF			
Display accuracy		± 5% of full scale at 25°C			
Casing		48x48 mm (1/16 DIN)			
Mounting		Panel-mounted			
Housing material		Self-extinguishing			
Degree of protection		IEC 60529: Front Face IP50 / Housing IP40			
Operating temperature		-20°C to +55°C			
Storage temperature		-40°C to +70°C			
Weight		140 g			

Dimensions (mm)

Front & side views



Panel cut-out



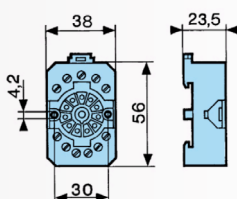
Accessories



Socket for DIN Rail or Panel Mount

Plug-In 8 Pins

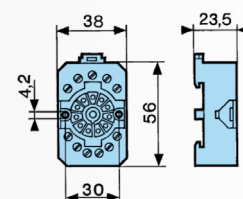
25622130



Socket for DIN Rail or Panel Mount

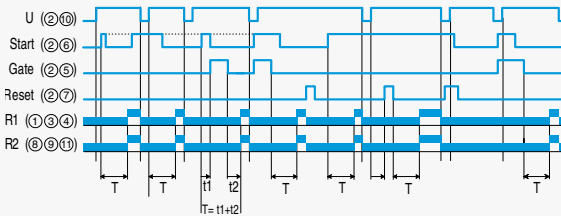
Plug-In 11 Pins

25622080

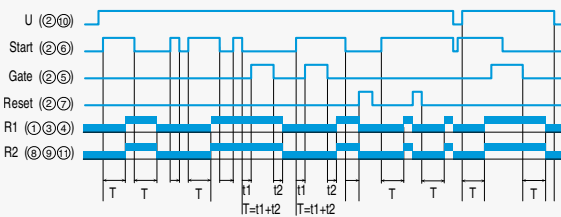


Function diagrams

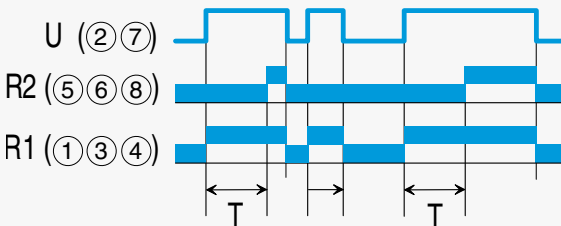
Function A: On-Delay (Delay on make)



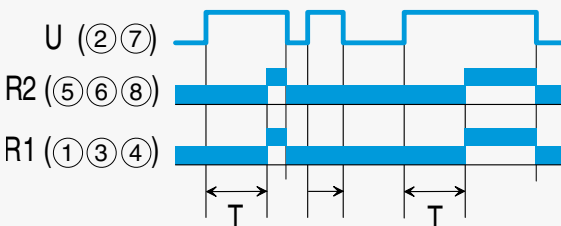
Function Ac: On/Off Delay (Delay on make/break)



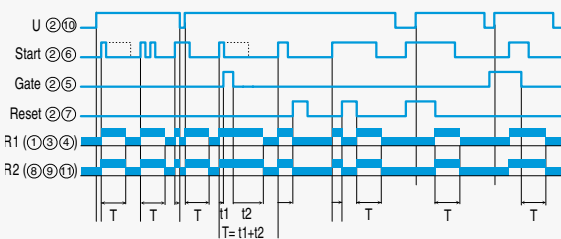
Function A1: On-Delay (Delay on make)



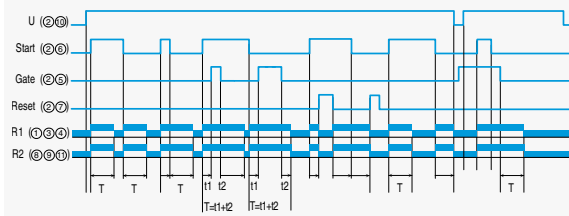
Function A2: On-Delay (Delay on make)



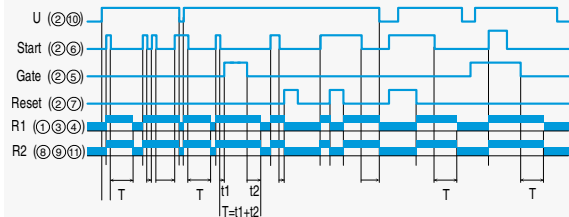
Function B: Single Shot (One Shot)



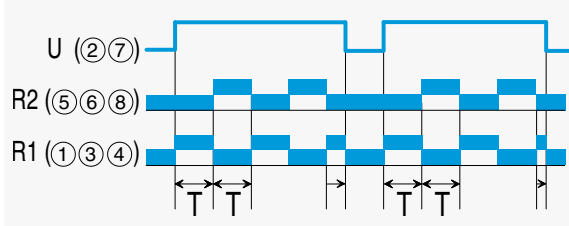
Function Bw: Pulse output



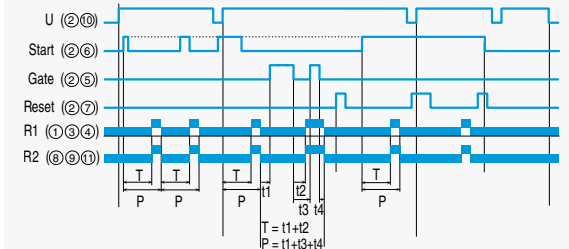
Function C: Off-Delay (Delay on break)



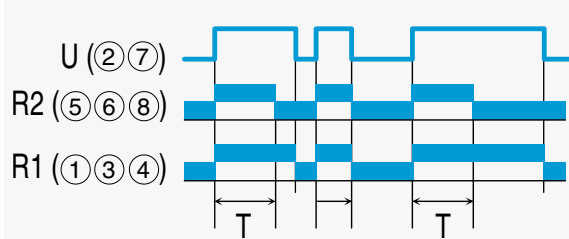
Function D/Di: Flasher (Symmetrical)



Function G: Cyclic function

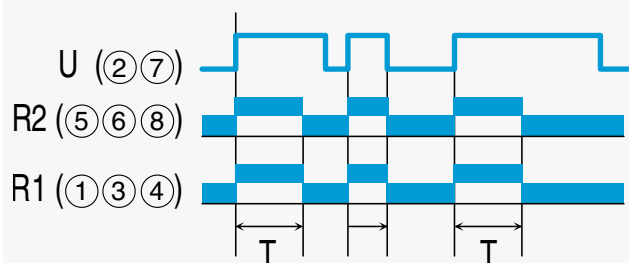


Function H1: Timing on energisation

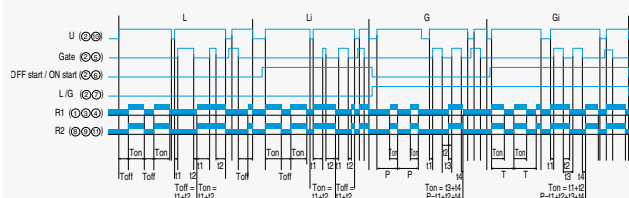


Function diagrams

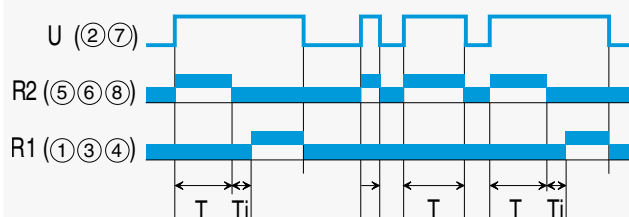
Function H2: Timing on energisation



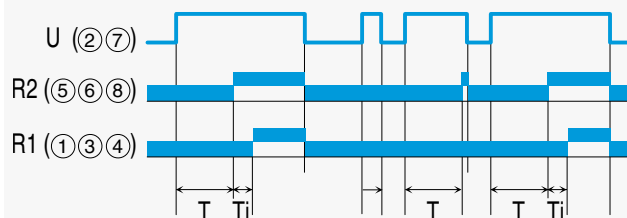
Function L/Li - G/Gi: Repeat Cycle (Asymmetrical)



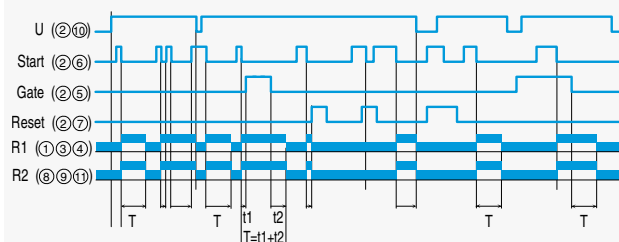
Function Q1: Star-delta



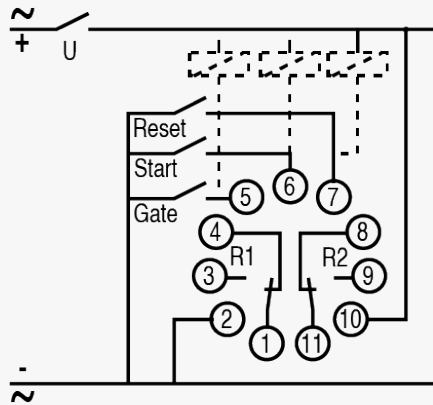
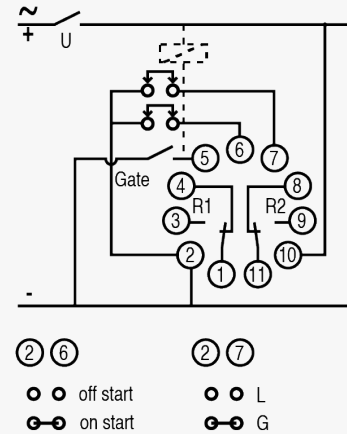
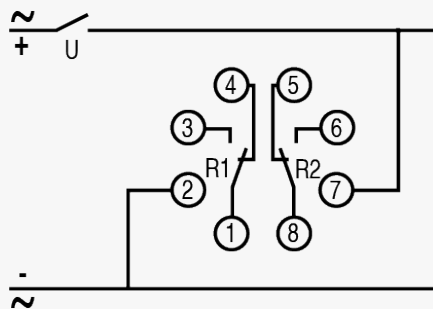
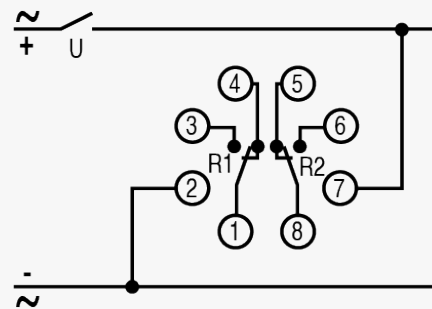
Function Q2: Star-delta 2



Function W: Timing after pulse of control contact



Wiring diagrams

TMR48 U

TMR48 L

TMR48 X

TMR48 A


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