

ERD-48M ENG

DIGITAL TIMER C€

General Specification

- Digital Timer with START/RESET/GATE input and OUT1 & OUT2 outputs
- 2x4 7 Segment LED display
- Selectable 13 different modes
- Counts down hour/minute/second
- Loads Timer value & OUT status at the latest power failure after the first power on
- EEPROM memory to store settings 24VDC inputs (compatible with PNP proximity switch output)
- 48x48mm front panel

Marning:

- Use twisted pair and shielded signal cables. Connect shield to ground from the device side. Keep all signal cables away from circuit breakers, devices/cables emitting electrical noise and power cables.
- Take precauitons against environmental conditions like humidity, vibration, pollution and high/low temperature during
- Use a fuse (slow 250mA 250VAC) on supply input of the device. Use appropriate cables for supply connections. Apply safety regulations during installation.

Technical Specification

: 44x44mm Panel Hole Size

: 2x4 Digit 7 Segment display Display

: START/RESET/GATE Inputs 3x max. 32VDC (OFF:0....2VDC, ON:7....32VDC)

: Inhibits count-down when GATE is ON. : Out Relay (NO-0-NC), 250VAC, 2A, Resistive load • Gate Input Output • Time base : Selectable; 99:59 hours / 99:59 minutes / 599.9 seconds

Selectable 13 different modes Modes

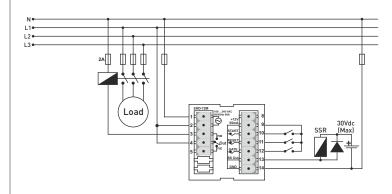
• Sensor Supply Out: 12VDC, 50mA max. : 100....240VAC, 50-60Hz Supply Voltage

Pow. Consump. : < 8VA Operating Temp. : -20 °C....55 °C • Operating Altitude : < 2000m

MADE IN TURKEY

Front Panel RESET:

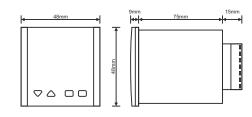
Connection



Notes:

- "SS Out" return should directly connected to "GND pin"
- Use free-wheeling diode to protect "SS Out

Dimensions: ..



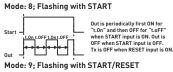
Programming Parameter:

Programming Timer SET Value: Press for 3 sec. Upper Display Second : 000.0....599.9 Minute : 00.00....99.59 Hours : 00.00....99.59 Set Value t.SEt Prog. end Out = 8, 9, 10 Enter t.On / t.A; Second : 000.0....599.9 Upper Display Minute : 00.00....99.59 Hours : 00.00....99.59 Lower Display t.on / t.A Set Value t.oFF / t.B Second : 000.0....599.9 Minute : 00.00....99.59 Hours : 00.00....99.59 Set Value

1

Modes of Operation:

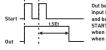




Mode: 7; One Shot after ON and OFF

Mode: 2; Re-triggerable On Shot

Mode: 3: Non-retiggerable One Shot



t.SEt

Out becomes ON when START input is triggered (OFF \rightarrow ON) and becomes OFF after "t.SEt START input can re-trigger when Out is ON. Out is OFF when RESET input in ON.

Out becomes ON when START input is triggered (0FF \Rightarrow ON) and becomes OFF after "t.SEt" START input can not re-trigger when Out is ON. Out is OFF whe RESET input is ON.

Out becomes ON "t.SEt" after START input is triggered (OFF \rightarrow ON). START input can not re-trigger timer until it is reset with RESET input.

Out is OFF when RESET input

t.On t.OFF t.Ont.OFF Mode: 10; Delayed One Shot after OFF

Л

Mode: 11; Chronometer - Count with START

Mode: 12; Chronometer - Count with START, Reset with RESET



Out is first ON after "tA" and then OFF after "tB" when START is triggered (ON \rightarrow OFF). START input does not-retrigger before "tB" elapses. Out is OFF when RESET input is ON.

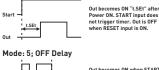
Out is ON and timer counts up when START in ON. Timer freezes when START is OFF. Timer resets when START is OF if timer has elapsed "t.SE!" time. Out is OFF when RESET input is ON.

Out is periodically first ON for "t.On" and then OFF for "t.oFF"

after START input is triggered (OFF → ON). Out is OFF when RESET input is ON.

Out becomes ON when START input is triggered (DFF → ON) or (ON → OFF) and becomes OFF after "t.SEt". START input can re-trigger when Out is ON. Out is OFF when RESET input is ON.

Mode: 4; Delay after Power ON



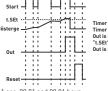


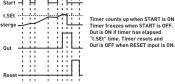
t.SEt

Out becomes ON when START input is ON. Out becomes OFF "t.SEt" after START input is triggered (ON → OFF). Out is OFF when RESET input is ON.

Out becomes ON when START input is triggered (ON → OFF) and becomes OFF after "t.SEt" Out is OFF when START is ON. Tx is OFF when RESET is ON.

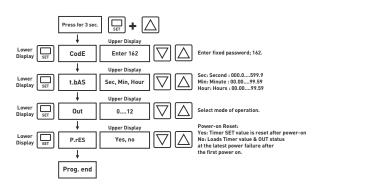
t.SEt





Selecting Time Base & Modes: ...

Prog. end



Out

- For modes 8 & 9: t.On and t.oFF are accepted as min. 000.1 sec. 00.01 and 00.01 hou
- Timer counts up for mode 11 & 12, and down for other modes.
- For all modes; counting is inhibited (or frozen) when GATE is ON.