021 088 97399
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Multifunction Process Timer 2C/O

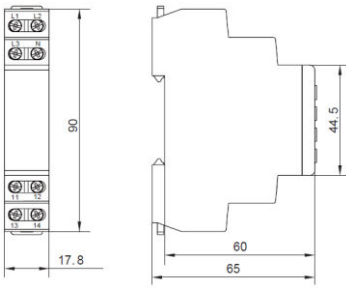
RS-TM24

RELETEK

Features

- 10 Functions
- 10 Time Ranges 0.1s~240Hrs
- Microcontroller based
- 2 Changeover contacts 16A 250VAC AC-1
- LED indication for supply and output state
- 1 module Din-rail mounting (18mm)
- 2 Years (return to supplier) warranty
- Repetition accuracy ≤0.2%
- Multi-Voltage 12-240VAC/DC

Dimensions



Description

- One module width (18mm wide) DIN rail mount process timer, multi-voltage & multi-function with 2 Changeover output contacts 16A 250VAC AC-1
- Highly flexible solution for control projects and maintenance applications

Applications

- Fans
- Lights
- Pumps
- Air conditioning
- Heaters
- Alarms

Technical Data

Functions	A	Switch On Delay	Time deviation	10% of mechanical setting
	B	Switch Off Delay	Repeat Accuracy	0.2% set value stability
	C	Flashing Starting with Off	Output	1% x scale value
	D	Flashing Starting with On	Current Rating	415V
	E	Delay Impulse Generation	Switching Voltage	1% x scale value
	F	Time Impulse Released by Rising Edge	Min. Breaking Capacity DC	415V
	G	Time Impulse Released by Falling Edge	Output Indication	1NO+1NC
	H	Switch On/Off Delay	Mechanical Life	8A/250V AC-1
	I	Latching Relay	Electrical Life (AC-1)	-20 ~ +50°C
	J	Time Impulse Released by Rising Edge with Switch Off Delay	Reset Time	Max. 200ms
			Operating Temperature	-20 ~ +55°C
Supply Terminals		A1 - A2	Mounting	TS35 Din rail (EN60715)
Voltage Range		12 ~ 240VAC/DC 50/60Hz	Protection Degree	IP40 front panel / IP20 terminals
Burden		AC:0.09 to 3VA/DC:0.05 to 1.7W	Operating Position	Any
Power Input		AC max.6VA/1.9W	Overvoltage Category	III
Supply Voltage Tolerance		-15 ~ +10%	Max Cable Size	solid wire max.1×2.5 or 2×1.5 with sleeve max.1×2.5(AWG 12)
Supply Indication		Green LED	Dimensions	90 x 18 x 64mm
Time Ranges		0.1s ~ 240Hrs, ON, OFF	Weight	82g
Time Setting		Potentiometer	Standards	EN61812-1 / IEC60947-5-1

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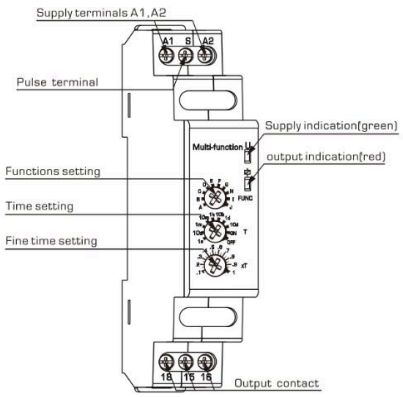
Safety Precautions

- The device must be installed by a qualified person
- Disconnect all power before working on the device
- Don't touch any of the terminals when the power is on
- Verify correct terminal connection when wiring
- Do not dismantle or repair the device otherwise no responsibility is assumed by the manufacturer, or AES Components Ltd
- This device must be mounted in an appropriately rated enclosure, distribution board or switchboard for the environment
- The device can be cleaned with a dry cloth
- Failure to follow these instructions may result in serious injury

Adjustment & Indication



Installation

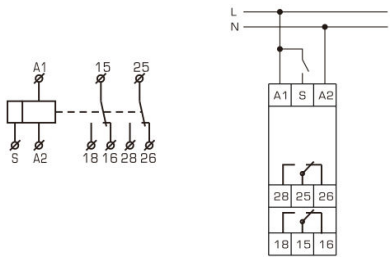
Isolate the supply before installation
Connect the unit as required
Set the time range and function
Apply power and the green LED will illuminate

Time Range Setting

0.1-1s		1-10s	
0.1-1min		1-10min	
0.1-1h		1-10h	
0.1-1days		1-10days	
ON		OFF	

T	xT	**Time adjustment:** t=10m x 0.3=3min
T	xT	**Time adjustment:** t=1d x 0.7=0.7day

Wiring Diagram



Disposal

Disposal of Electrical Waste
All electrical waste should be disposed of in compliance with current WEEE regulations.

Warranty

2 Years from date of purchase - return to supplier

Manufacturer & importers liability is limited to the replacement value of the device only

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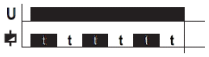
Functions

A			***SWITCH ON DELAY*** - after the supply voltage has been applied the time t measurement starts. After the time is over the relay switches on (pos.15-18). The next switch on interval appears after power supply voltage reset
B			***SWITCH OFF DELAY*** - after the supply voltage has been applied, the relay switches on immediately (pos.15-18), and the preset time t is measured. After the preset time t has been measured, the output relay returns to the initial state (pos.15-16)
C			***FLASHER STARTING WITH OFF*** - (Starting from the switch off position). After the supply voltage has been applied, the preset time t is measured. After the time t is over, the relay switches on (pos.15-18) and the preset time t is measured once more. After the preset time t is over, the output relay returns to the initial state (pos.15-16), and the next operating cycle of the relay starts. The relay operates until the supply voltage is removed
D			***FLASHER STARTING WITH ON*** - (Starting from the switch on position). After the supply voltage has been applied, the relay is switched on immediately (pos.15-18) and the preset time t is measured. After the time t is over, the relay switches off (pos.15-16) and the preset time t is measured once more. After the preset time t is over, the relay R returns to the initial state, and the next operating cycle of the relay starts. The relay operates until the supply voltage is removed
E			***OFF DELAY (S BREAK)*** - Input voltage U must be applied continuously. When trigger switch S is closed, relay contacts R change state. When trigger switch S is opened, delay t begins. When delay t is complete, contacts R return to their shelf state. If trigger switch S is closed before time delay begins again, and relay contacts R remain in their energized state. If input voltage U is removed, relay contacts R return to their shelf state
F			***TIME IMPULSE RELEASED BY RISING EDGE*** - after the impulse release has been applied to the powered system (rising edge) it switches on the relay (pos. 15-18), and starts to measure the preset time. After the time t is over the relay switches off (pos.15-16). Impulse time duration is not important here
G			***TIME IMPULSE RELEASED BY FALLING EDGE*** - powered system switches on the relay after impulse release fades (falling edge)(pos. 15-18) and time measurement starts. The relay is switched off after time t is over. The following impulse release fades during time measurement does not cause time measure from the beginning (non-retriggerable)
H			***SWITCH ON/OFF DELAY*** - after the impulse release has been applied to the powered system (rising edge) let the relay be switched off (pos.15-16), at the same time, starts the preset time t measurement. After the time is over the relay is switched on (pos. 15-18). After the impulse release fade is detected (falling edge), the system starts preset time measurement again after it is over the relay is switched off (pos.15-16). In case the impulse duration is shorter than the preset time t the relay is switched on for the t time only
I			***LATCHING RELAY*** - supply voltage U must be applied continuously. Output changes state with every trigger switch S closure. If supply voltage U is removed, relay contacts return to their shelf state
J			***DELAY IMPULSE GENERATION 0.5s*** - after the supply voltage has been applied the time measure t starts. After the time is over the relay switches on (pos. 15-18) for 0.5s, and switches off (pos.15-16). The next switch on interval appears after power supply voltage reset

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More from AES & Maxge...

Modular Contactors	*22mm Push Buttons & Indicators*	*Motor Control*	
		Circuit Breakers	*Contactors*