

TMC5X High-performance digital time relay.

DIN 48×48mm, International Standard Size

- High contrast LCD liquid crystal display, red yellow and green three different display backlight display, clear and easy to read.
- Adopt each increase / decrease key design, make the setting operation become simple and convenient.
- Removable terminal block protective cover, easy to wire and can prevent electric shock.
- Multi-function timing mode output mode, to meet different industrial applications.
- Safety and Reliability, Power supply circuit and input circuits are isolated for safety.
- Super anti-interference ability design, accurate and reliable Time Counting .

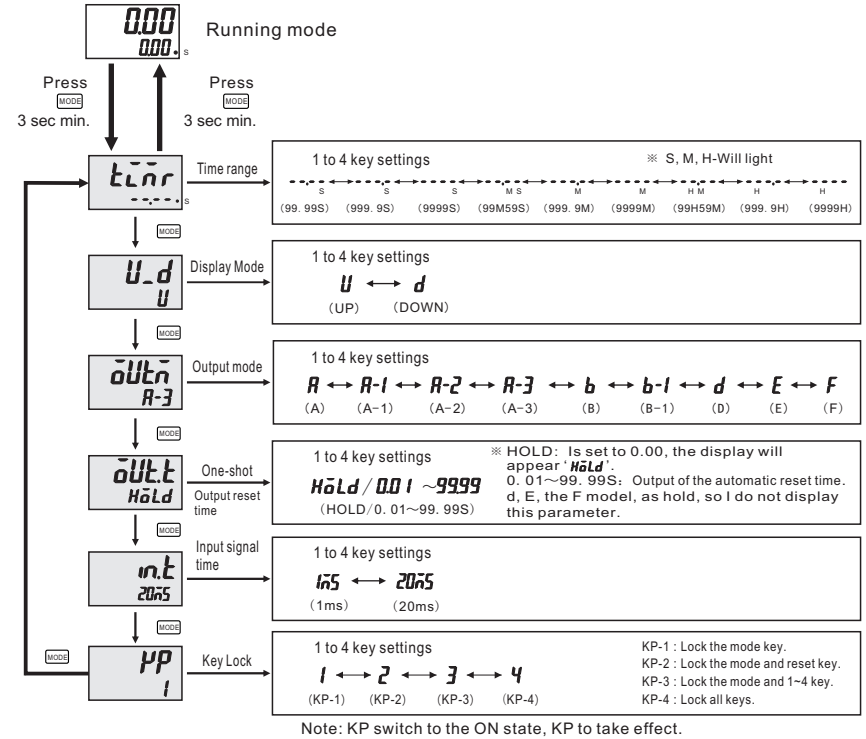


Technical parameters

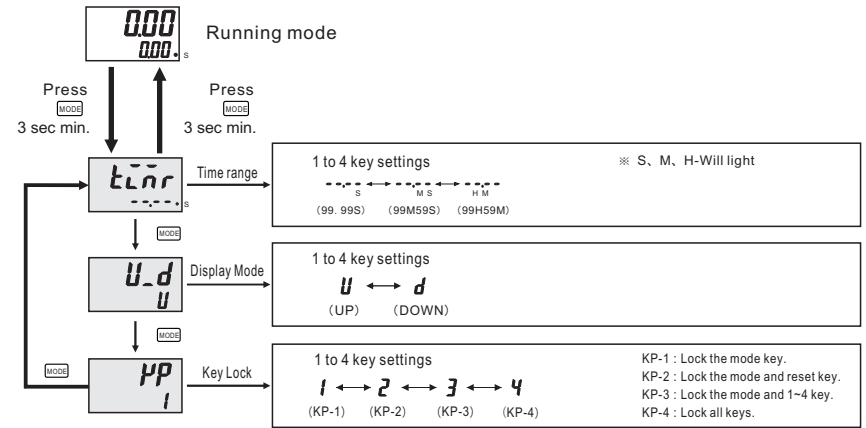
Model	TMC5X-A2	TMC5X-B
Category	Economy model	Multi-function model
Operating voltage range	1:AC100~240V 50/60HZ 2:AC/DC12~24V	
Allows the voltage range	85% to 110% rated supply voltage (12 to 24 VDC: 90% to 110%)	
Power consumption	Approx.5VA (AC240V) , Approx.3. 2VA (DC24V)	
Display method	4-digit LCD display	
Time ranges	99.99s(0.01s~), 999.9s(0.1s~), 9999s(1s~), 99m59s(1m~), 99h59m(1m~)	9999s(1s~), 99m59s(1m~), 999.9m(0.1m~), 9999m(1m~), 99h59m(1m~), 999.9h(0.1h~), 9999h(1h~)
Timer mode	Elapsed time (Up), remaining time (Down) (selectable)	
Input signals	SIGNAL, GATE, RESET	
Input method	NPN No-voltage Input	
Minimum input signal	20ms	1ms/20ms (switchable)
Output modes	A2	A, A1, A2, A3, b, b1, d, E, F
One-shot output time	HOLD	HOLD/0.01s~99.99s
Reset method	Manual reset, the reset signal, Power-off reset	Manual reset, the reset signal, Power-off reset(only:A, A1, A2, b, d, E) , Automatic reset(only:A1, b, b1, d, E)
Memory backup	NO	EEP-ROM data hold more than 10 years
Output power	NO	12VDC ±10% 100mA Max
Precision error	±0.01%±0.05s max.	
Control output	Relay 3A AC250V resistive load	
Insulation	AC2000V 50/60Hz 1min	
Ambient temperature	Operating: -10 to 55°C Storage: -25 to 65°C (with no icing or condensation)	
Ambient humidity	25% to 85%	
Gross weight	Approx. 173 g	

Model parameters Operation Flow Chart

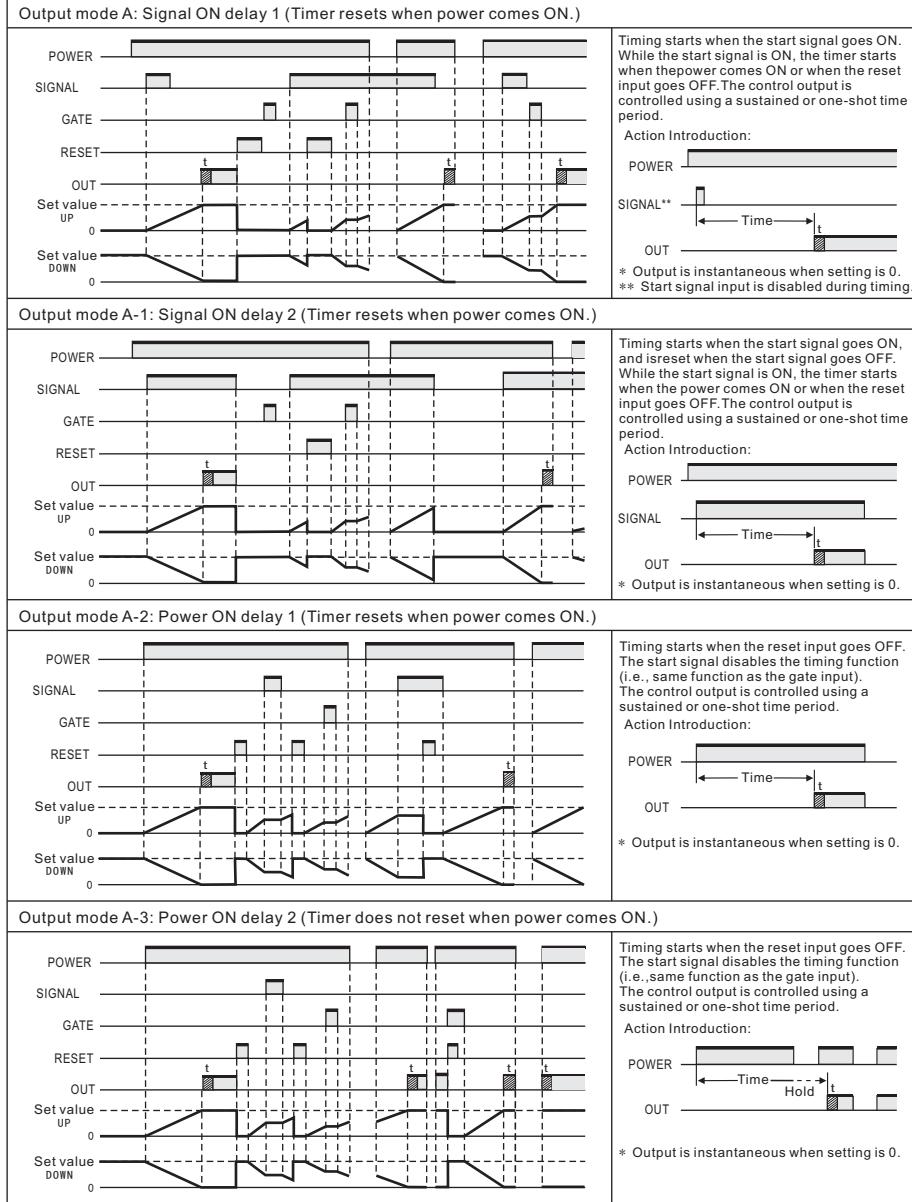
● TMC5X-B:



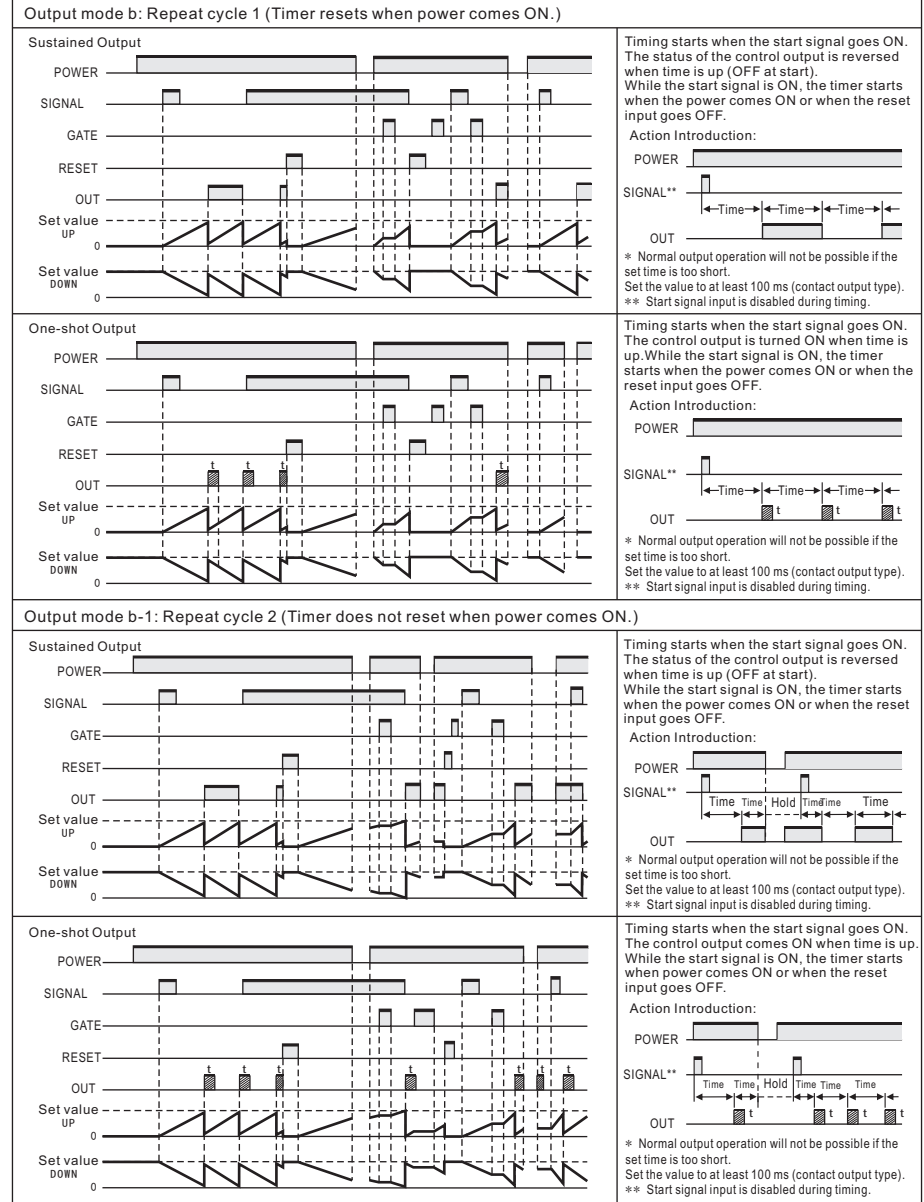
● TMC5X-A2:



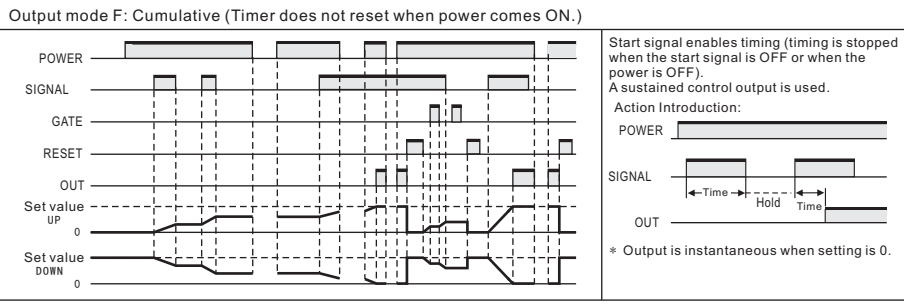
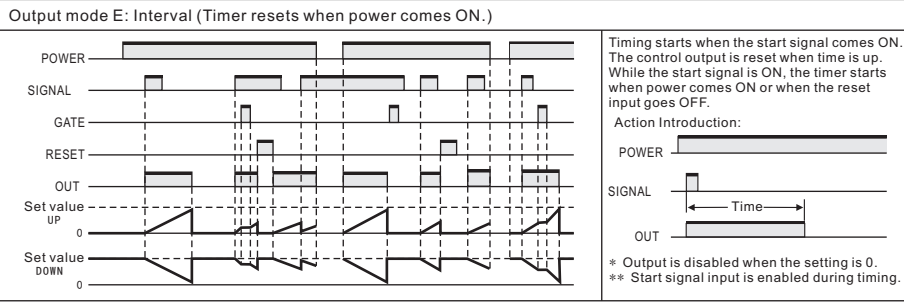
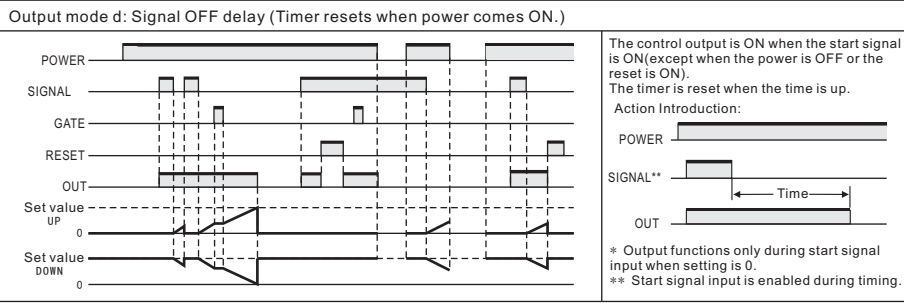
■ Output mode of action Figure



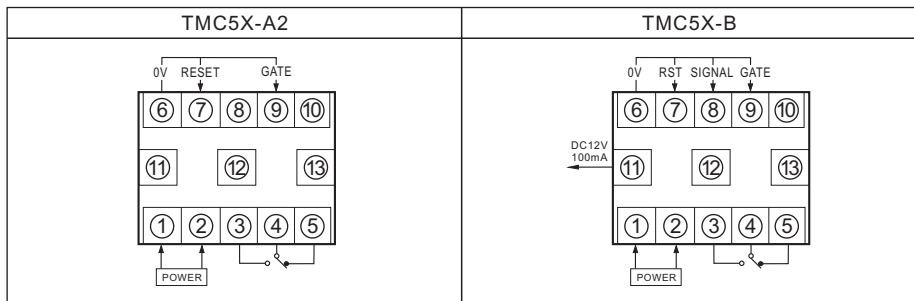
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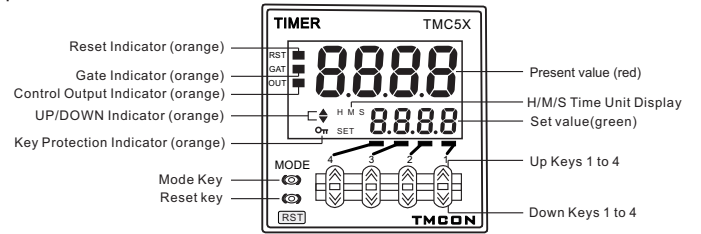
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Wiring diagram



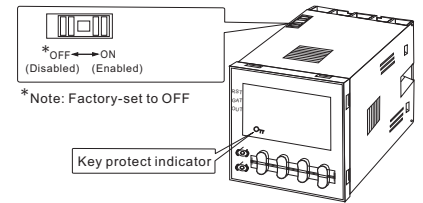
Panel Description



Key Protect Level

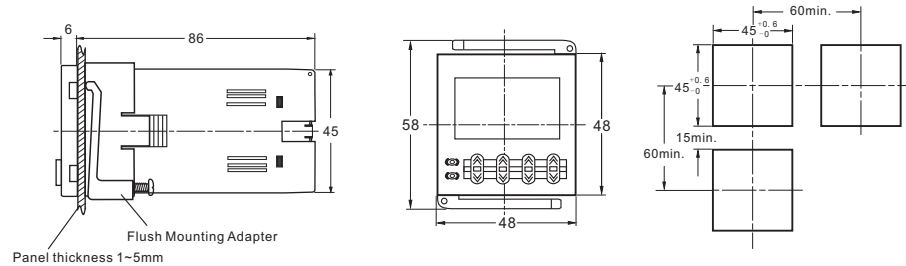
When the key-protect switch is set to ON, it is possible to prevent setting errors by prohibiting the use of certain operation keys by specifying the key protect level (KP-1 to KP-4).

The key protect indicator is lit while the key-protect switch is set to ON.



Dimensions (mm)

Outline dimensions



Note

- 1: before use, make sure that the voltage and connection, to avoid lead to instrument damage due to incorrect wiring.
- 2: Avoid the instrument used in high temperature, flammable, explosive, corrosive, dust, severe shock, humidity, static electricity, oil and other occasions.
- 3: Twist of the instrument signal lines and power lines may cause interference Please try to stay away from these strong electric wires, to conduct an independent wiring, and signal lines as far as possible to shorten the wiring distance.
- 4: More frequent work, please make full use of the reset signal terminal reset, to avoid frequent power on-off, so you can extend the life of the product.
- 5: Output relay, please do not exceed the switching capacity, according to the rated load, otherwise it would contact burned, such as an external high current relay or contactor exceeds its capacity.