

ATE Series

DIN W48×H48mm Solid state ON Delay timer

■ Features

- DIN W48×H48mm
- Easy and simple time setting
- Cost-effective
- Easy time setting
- Wide range of time
- Power supply
- ATE : 110/220VAC 50/60Hz
- ATE1, ATE2 : 110VAC, 220VAC 50/60Hz, 12VDC, 24VDC(option)



⚠ Please read "Caution for your safety" in operation manual before using.

■ Ordering information

| | | | | |
|------|--------|------------|-----------|---|
| ATE | □ | - | 10 | S |
| Item | Output | Time range | Time unit | |
| | | | S | sec.(1, 3, 6, 10, 30, 60) |
| | | | M | min.(3, 6, 10, 30, 60) |
| | | | H | hour(3, 6, 12, 24) |
| | | Number | | Max. time range |
| | | No mark | | Time-limit SPDT(1c), Instantaneous SPST(1a) |
| | | 1 | | Time-limit DPDT(2c) |
| | | 2 | | Time-limit SPDT(1c), Instantaneous SPDT(1c) |
| | | ATE | | ON Delay timer |

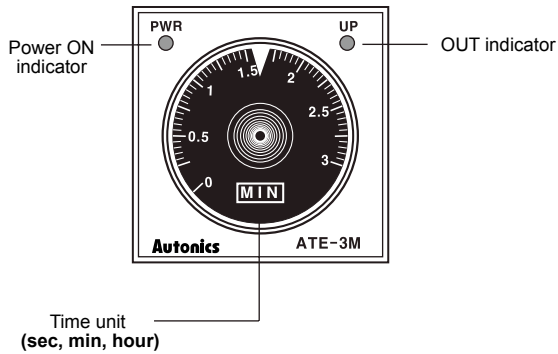
■ Specifications

| | | | | | | |
|----------------------------|---|---|--|--|---|--|
| Model | ATE - | <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> H | ATE1 - | <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> H | ATE2 - | <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> H |
| Function | Power ON Delay | | | | | |
| Control time setting range | sec.(1, 3, 6, 10, 30, 60), min.(3, 6, 10, 30, 60), hour(3, 6, 12, 24) | | | | | |
| Power supply | 110/220VAC 50/60Hz | | 110VAC, 220VAC 50/60Hz, 12VDC, 24VDC(option) | | | |
| Allowable voltage range | 90 to 110% of rated voltage | | | | | |
| Power consumption | Approx. 10VA(240VAC 60Hz), Approx. 2W(24VDC, 12VDC) | | | | | |
| Reset time | Max. 200ms | | | | | |
| Timing operation | Power ON start type | | | | | |
| Control output | Contact type | Time limit SPDT(1c), Instantaneous SPST(1a) | | Time limit DPDT(2c) | Time limit SPDT(1c), Instantaneous SPDT(1c) | |
| | Contact capacity | 250VAC 3A resistive load | | | | |
| Relay life cycle | Mechanical | Min. 10,000,000 operations | | | | |
| | Electrical | Min. 100,000 operations(250VAC 3A resistive load) | | | | |
| Repeat error | Max. ±0.3% | | | | | |
| SET error | Max. ±5% ±0.05sec. | | | | | |
| Voltage error | Max. ±0.5% | | | | | |
| Temperature error | Max. ±2% | | | | | |
| Insulation resistance | 100MΩ(at 500VDC megger) | | | | | |
| Dielectric strength | 2000VAC 50/60Hz for 1 minute | | | | | |
| Noise strength | ±2kV the square wave noise(pulse width : 1μs) by the noise simulator | | | | | |
| Vibration | Mechanical | 0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hours | | | | |
| | Malfunction | 0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 minutes | | | | |
| Shock | Mechanical | 300m/s ² (approx. 30G) in each of X, Y, Z directions for 3 times | | | | |
| | Malfunction | 100m/s ² (approx. 10G) in each of X, Y, Z directions for 3 times | | | | |
| Environ-ment | Ambient temperature | -10 to 55°C, storage: -25 to 65°C | | | | |
| | Ambient humidity | 35 to 80%RH | | | | |
| Unit weight | Approx. 75g | | | | | |

※Environment resistance is rated at no freezing or condensation.

Single Time Range Timer

Parts description



Time setting range

| Max. setting time | Setting range |
|-------------------|---------------|
| 1sec | 0 to 1sec |
| 3sec | 0 to 3sec |
| 6sec | 0 to 6sec |
| 10sec | 0 to 10sec |
| 30sec | 0 to 30sec |
| 60sec | 0 to 60sec |
| 3min | 0 to 3min |
| 6min | 0 to 6min |
| 10min | 0 to 10min |
| 30min | 0 to 30min |
| 60min | 0 to 60min |
| 3hour | 0 to 3hour |
| 6hour | 0 to 6hour |
| 12hour | 0 to 12hour |
| 24hour | 0 to 24hour |

Output operation mode

t : Setting time, Rt : Reset time

| Model | Time chart |
|-------|------------|
| ATE | |
| ATE1 | |
| ATE2 | |

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/Socket

(H) Temp. controller

(I) SSR/Power controller

(J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/Speed/Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controller

(R) Graphic/Logic panel

(S) Field network device

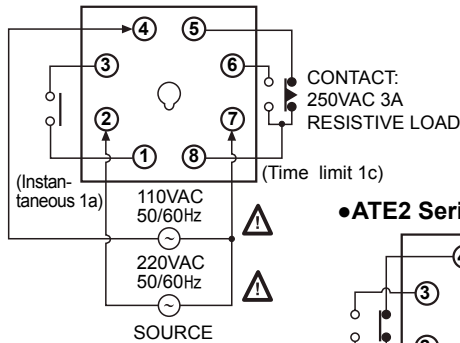
(T) Software

(U) Other

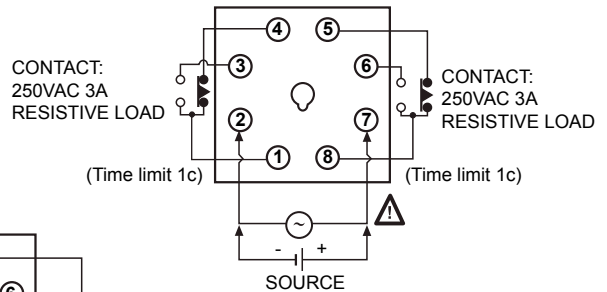
ATE Series

■ Connections

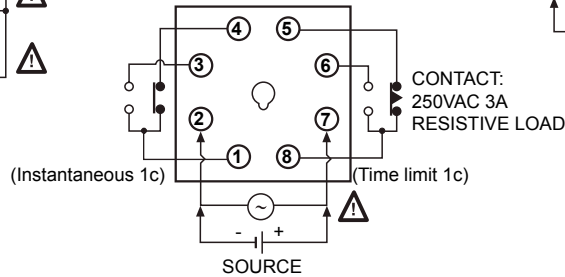
● ATE Series



● ATE1 Series

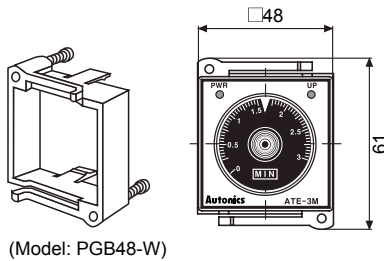


● ATE2 Series

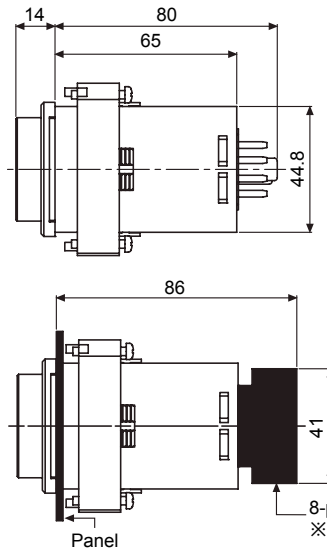


■ Dimensions

● Bracket (sold separately)

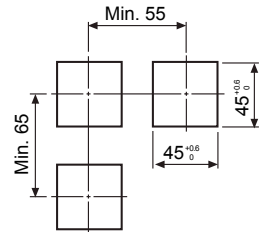


(Model: PGB48-W)



● Panel cut-out

(unit: mm)



8-pin socket : PG-08(sold separately)
※Refer to the G-15 page.

■ Proper usage

○ Environment

Please avoid the following places:

- A place where this product may be damaged by strong impact or vibration.
- A place where corrosive gas or flammable gas and water, oil, dust exist.
- A place where magnetic and electrical noise occur.
- A place where high temperature and humidity are beyond rated specification.
- A place where there are strong alkalis and acids.
- A place where there are direct rays of sun.

○ Noise

- We test 2kV, Pulse width 1 μ s against Impulse voltage between power terminals and 1kV, Pulse width 1 μ s at noise simulator against external noise voltage. Please install MP condenser(0.1 to 1 μ F) or oil condenser between power terminals when over impulse noise voltage occurs.
- When testing dielectric voltage and insulation resistance of the control panel with this unit installed.
- Please isolate this unit from the circuit of control panel.
- Please make all terminals of this unit short-circuited. (It prevents the damage of inner circuit.)