



1-800-633-0405

Instruction Manual
Fuji Timing Relay
Type MS4SM, MS4SA, MS4SC

SAFETY PRECAUTIONS

Before installation, wiring, operation, maintenance, and inspection of the device, be sure to read the operating instructions carefully to ensure proper operation. Care should be taken that the operating instructions will be furnished to the maintenance supervisors of final users.

WARNING :Incorrect handling of the device may result in death or serious injury.
 ● Turn off the power supply prior to installation, removal, wiring, maintenance or inspection to prevent electric shocks and burns due to short-circuit.

CAUTION :Incorrect handling of the device may result in minor injury or physical damage. Even some "Caution" items may also result in a serious accident.

- If the device defect may cause danger to life or damage to property, careful attention must be applied to ensure the operation. It may also be necessary to incorporate fail-safe measures if connected to a critical process or safety application.
- Do not use one found damaged or deformed when unpacked.
- Installation, electric work, maintenance and inspection of the device should be performed by qualified engineers having special knowledge.
- Do not install the device in a place of environment with high temperature, humidity, dust, corrosive gases, excessive vibration, etc. to prevent fire accidents and malfunction of the device.
- Use the device in a range of the rated voltage and current.
- Make connection on the power supply and load in a correct manner. Or, fire accident may be occur.
- Care should be taken to prevent entry of foreign objects such as dust, concrete chips, Iron powder, etc., or it may result in poor contacts, defective release unless it is permitted.
- Make sure that terminals are fully tightened periodically to prevent malfunction.
- Never disassemble, modify or repair the product.
- When the device is to be disposed of, it should be handled as an industrial waste.

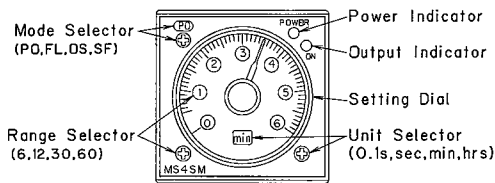
■ Specification

Type	MS4SM	MS4SA	MS4SC
Operation Mode	Multi-mode	On-delay	On-delay
Terminal Form	11-Pin	8-Pin	8-Pin
Timed Contact	DPDT	DPDT	SPDT
Instantaneous Contact	—	—	SPDT
Applicable Socket	TP411X	TP48X	TP48X

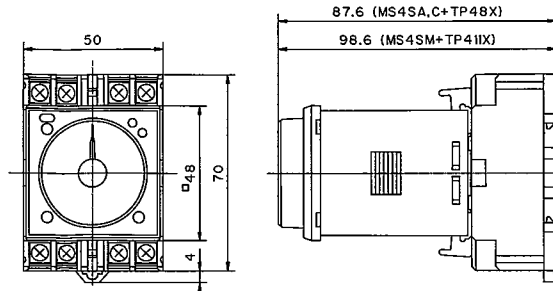
■ Timing Range Chart

Range Selection	Unit Selection			
	× 0.1s	sec	min	hrs
6	0.05-0.6s	0.5-6s	0.5-6min	0.5-6h
12	0.1-1.2s	1-12s	1-12min	1-12h
30	0.25-3s	2.5-30s	2.5-30min	2.5-30h
60	0.5-6s	5-60s	5-60min	5-60h

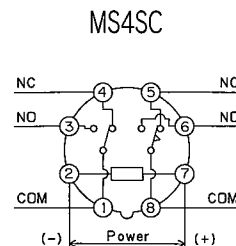
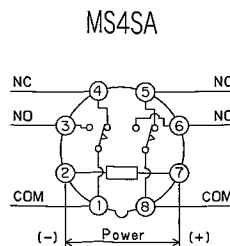
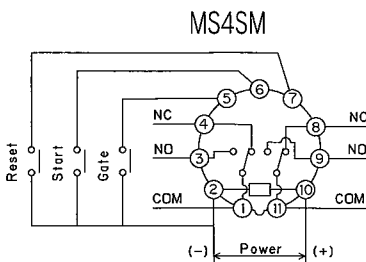
■ Nomenclature



■ Dimensions. mm



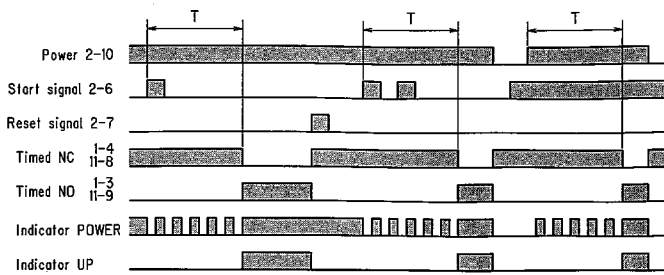
■ Wiring Diagrams



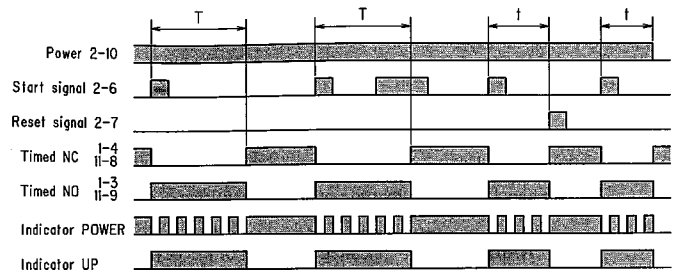
※ When the Gate is input, stops the time count.

■ Timing Diagrams (MS4SM)

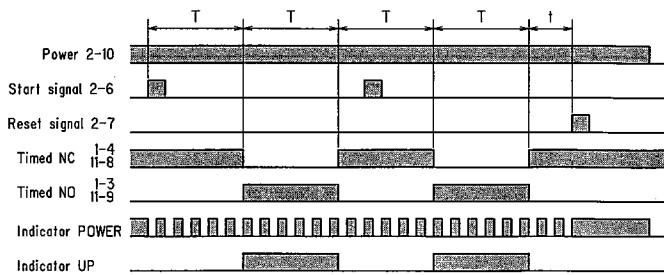
On-delay (PO)



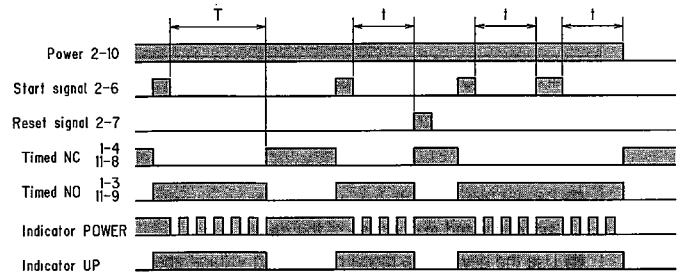
One-shot (OS)



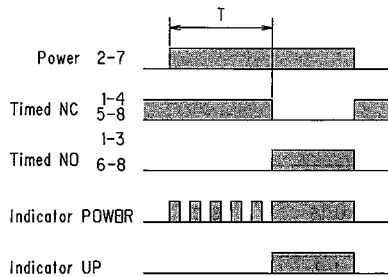
Flicker (FL)



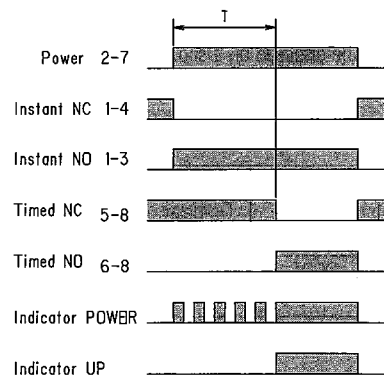
Signal off-delay (SF)



■ Timing Diagrams (MS4SA)



(MS4SC)



■ DC power supply

DC-operated timers are available for use with single-phase full-wave rectification DC power supplies.

■ Others

1. Set the time within the range of the timing scale divisions. To make a timer output a signal as soon as it is power ON, turn the dial fully counterclockwise.
2. The time setting dial can be turned while the timer is operating. However, the time for that operation will be incorrect.
3. Do not try to turn the time setting dial to outside the timing range. Turn it carefully, do not turn forcibly.
4. Do not remove the case of the timer, or operating characteristics will be changed.
5. Keep the timer away from corrosive gas, water, oil, dust, and direct sunlight. Do not use the timer in these circumstances.

6. Do not use the timer where it will be subjected to vibration or shock.

7. The case of the timer can be damaged by organic solvents such as thinner and benzene, and by corrosive substances such as strong acid or alkaloids. Keep the timer away from these substances.

8. The storage temperature must be between -25°C and $+60^{\circ}\text{C}$.

If the timer has been left at -10°C or below, leave it at room temperature for three hours or more before applying power.