Fuji Electric

Innovating Energy Technology

Fuji Time Delay Relays

Super Timers ST7P Series

The ST7P series are compact and highly accurate Super Timers. The ST7P are on-delay operation types.

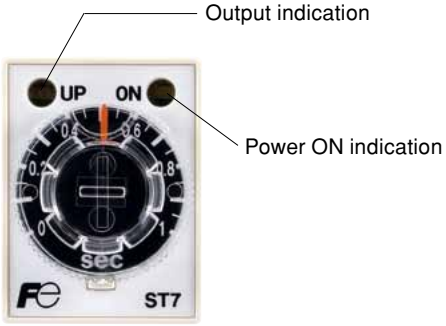


ST7P-4C

Features

- These Super Timers are highly accurate. Their repeat accuracy is less than ±1% at maximum setting time.
- Timing range
  ST7P is the single timing range types; 0.06 sec. to 12 hours.
- Time setting dial is user friendly.
  Easy to check the status of the timer by the LED indicators.
- The ST7P has been approved by the UL, cULus and CCC.

ST7P-2C, -4C



Specifications

Type	Ordering code	Contact	Operation	Input voltage	Code	Time range	Code	Socket
ST7P-2C	MS7P2C-■□	Timed: 2PDT	On-delay	24V AC 50/60Hz	[AE]	0.05-0.5s	[P5]	Screw
				110V AC 50/60Hz	[AH]	0.1-1s	[1S]	
				220V AC 50/60Hz	[AM]	0.5-3s	[3S]	
				240V AC 50/60Hz	[AP]	0.5-5s	[5S]	
				12V DC	[DB]	1-10s	[1T]	
				24V DC	[DE]	3-30s	[3T]	
				48V DC	[DF]	5-60s	[6T]	
ST7P-4C	MS7P4C-■□	Timed: 4PDT		110V DC	[DH]	0.5-3min	[3M]	
						1-10min	[1N]	
						3-30min	[3N]	
						5-60min	[6N]	
						0.2-2h	[2H]	
						0.5-6h	[6H]	
						1-12h	[1J]	

Note: Enter the input voltage code in the ■ mark and timing range code in the □ mark.

Technical data

Repeat accuracy	±1% at max. setting time		
Reset time	0.1s or less		
Max. operating cycle	1800 cycles/h		
Operating temperature range	-10˚C to 50˚C		
Mechanical durability	50 million operations		
Electrical durability		ST7P-2C	ST7P-4C
	Resistive load (AC-12)	200,000 Operations	120,000 Operations
	Inductive load (AC-15)	320,000 Operations	260,000 Operations
	Resistive load (DC-12)	500,000 Operations	260,000 Operations
	Inductive load (DC-13)	150,000 Operations	50,000 Operations
Operating voltage range	0.85 to 1.1 times input voltage		
Contact ratings		ST7P-2C	ST7P-4C
	Resistive load (AC-12)	240V 5A	240V 3A
	Inductive load (AC-15)	220V 1A	220V 0.3A
	Resistive load (DC-12)	110V 0.5A	110V 0.5A
	Inductive load (DC-13)	110V 0.2A	110V 0.2A
Power consumption	1.9VA or less (AC), 1.2W or less (DC)		
Dielectric strength	2000V AC rms. 1min. between current carrying part and non current carrying part 1500V AC rms. 1min. between output contacts and control circuit 1000V AC rms. 1min. between open contacts		
Insulation resistance	100MΩ at 500V DC meger		
Vibration	Durability: 10 to 55Hz,0.5mm double amplitude		
Shock	Durability: 5 x 9.8 m/s^2		

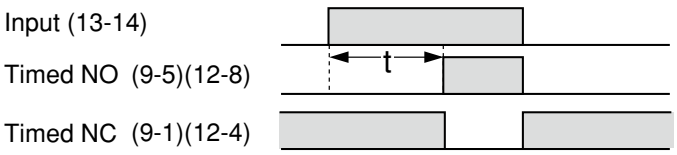
Standard

Type	EU directive	Safety identification standard		CCC certification
	CE mark	UL	CSA	GB
	CE	c UL us		CCC
ST7P-2C **ST7P-4C**	❍	❍	❍	❍

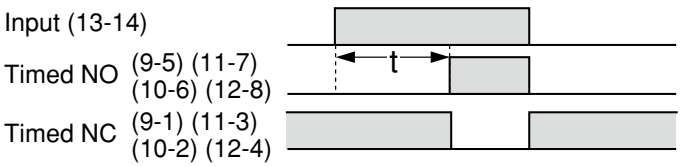
❍: Standard products shall abide by the above standards as well as the obtained certifications.

Timing diagrams

ST7P-2C

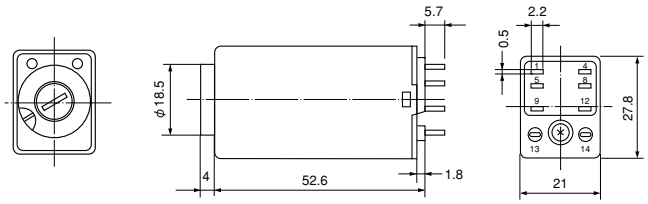
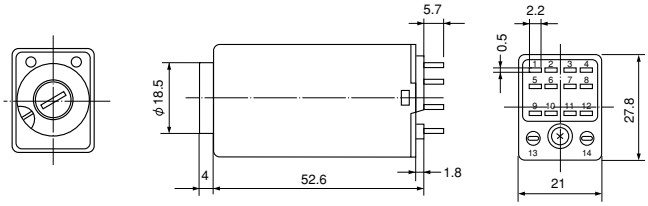


ST7P-4C

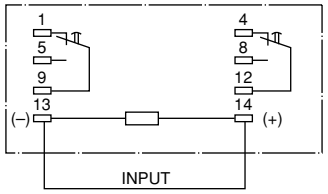
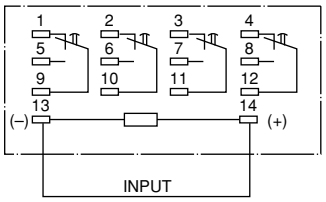


Note : Parentheses indicate terminal numbers.

Dimensions, mm

Type	Appearance, mass	Dimensions, mm
ST7P-2C	 Approx. 45g	
ST7P-4C	 Approx. 45g	

Wiring diagrams

ST7P-2C	ST7P-4C
	

Type number nomenclature

ST 7 P - 2C AC110V 5S

Super Timer

Size

Mounting
P: Plug-in (using sockets)

Contact
2: Timed 2PDT contact (8 terminals)
4: Timed 4PDT contact (14 terminals)

Timing range

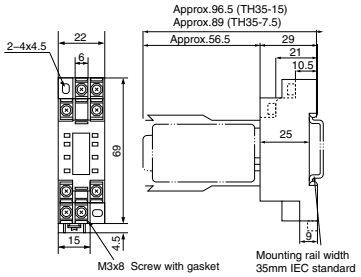
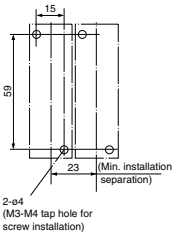
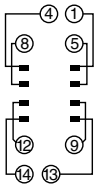
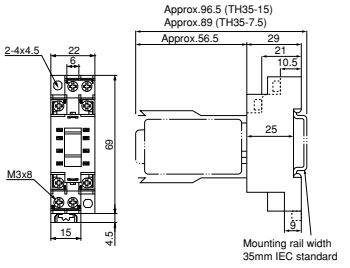
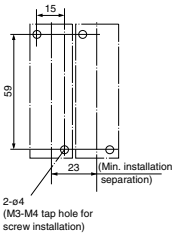
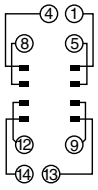
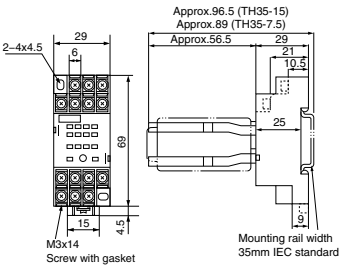
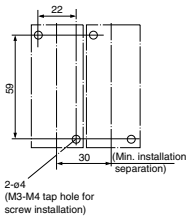
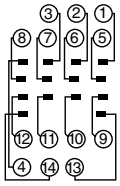
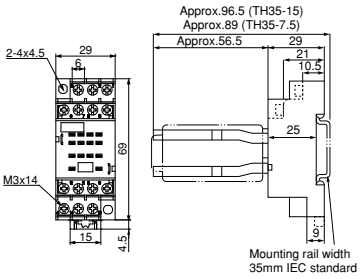
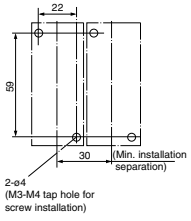
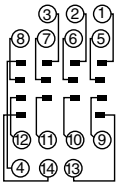
0.5S:	0.05-0.5s	3M:	0.5-3min
1S:	0.1-1s	10M:	1-10min
3S:	0.5-3s	30M:	3-30min
5S:	0.5-5s	60M:	5-60min
10S:	1-10s	2H:	0.2-2h
30S:	3-30s	6H:	0.5-6h
60S:	5-60s	12H:	1-12h

Input voltage
AC24V
AC110V
AC220V
AC240V
DC12V
DC24V
DC48V
DC110V

Ordering information

Specify the following:
1. Ordering code or type number of body (add a suffix of the timing range) and socket. (Socket is sold separately.)

Sockets

Type	Appearance, mass	Applicable time delay relay	Dimensions (mm)	Panel drilling (mm)	Wiring diagrams
TP88X1-C (Screw terminal and rail mounting) * Standard products are provided with vibration resistant metal parts	 Approx. 32g (No.KKD13-269)	ST7P-2C			
TP88X1-EC With finger safety protection (Screw terminal and rail mounting) * Standard products are provided with vibration resistant metal parts	 Approx. 33g (No.KKD13-270)	ST7P-2C			
TP814X1-C (Screw terminal and rail mounting) * Standard products are provided with vibration resistant metal parts	 Approx. 49g (No.KKD13-271)	ST7P-4C			
TP814X1-EC With finger safety protection (Screw terminal and rail mounting) * Standard products are provided with vibration resistant metal parts	 Approx. 50g (No.KKD13-272)	ST7P-4C			

Fuji Electric FA Components & Systems Co., Ltd.

5-7, Nihonbashi Odemma-cho, Chuo-ku, Tokyo, 103-0011, Japan

URL http://www.fujielectric.co.jp/fcs/eng