

■ Timers

Type and rating

Standard	Type	Operation	Mounting	Indication	Contact arrangement	Control output	Input voltage	Power consumption	Timing range
cULus	MS4SM	On-delay Flicker One-shot momentary action Signal off-delay	Surface/ flush	Power-on Time up	Time-limit 2(NO+NC)	See the UL approved type list shown at page 45	100 to 240V AC 50/60Hz 24V AC/DC 48 to 127V DC	Approx. 10VA for AC type. Approx. 1W for DC type.	From 0.6 seconds to 60 hours, 16 changeable ranges  Full scale Unit x 0.1s s min h 6 0.05 to 0.6s 0.5 to 6s 0.5 to 6min 0.5 to 6h 12 0.1 to 1.2s 1 to 12s 1 to 12min 1 to 12h 30 0.25 to 3s 2.5 to 30s 2.5 to 30min 2.5 to 30h 60 0.5 to 6s 5 to 60s 5 to 60min 5 to 60h
	MS4SA	On-delay		Power-on Time up	Time-limit 2(NO+NC)				
	MS4SC	On-delay		Power-on Time up	Time-limit 1(NO+NC) + instantaneous 1(NO+NC)				
	MS4SR	Repeat		Power-on ON	Time-limit 2(NO+NC)				
	MS4SF	Off-delay		Power-on	Time-limit 2(NO+NC)				
	MS4SF-R	Off-delay		Power-on	Time-limit 1(NO+NC) + instantaneous reset				
	MS4SY	∧ - Δ		Electrically reset On-delay	∧ contact input Δ contact output				
MS4SE	∧ → Δ switching time 0.05s 0.1s 0.25s 0.5s	Power-on	Time-limit 1(NO+NC)		Approx. 10VA for AC type.	Full scale Unit s min hrs x 10 h 6 0.5 to 6s 0.5 to 6min 0.5 to 6hrs 5 to 60h 12 1 to 12s 1 to 12min 1 to 12hrs 10 to 120h 60 5 to 60s 5 to 60min 5 to 60hrs 50 to 600h 120 10 to 120s 10 to 120min 10 to 120hrs 100 to 1200h			
ST7P-2	On-delay	Surface	Power-on Time up	Time-limit 2(NO+NC)	240V AC 3A	100V AC 200V AC 24V DC	100V AC approx. 1.2VA 200V AV approx. 1.5VA 24V DC approx. 1.1W	0.06 to 0.5s 0.25 to 3min 0.1 to 1s 1 to 10min 0.3 to 3s 2 to 30min 0.4 to 5s 4 to 60min 1 to 10s 0.2 to 2h 2 to 30s 0.5 to 6h 4 to 60s 1 to 12h	
ST7P-4	On-delay	Surface	Power-on Time up	Time-limit 4(NO+NC)	(Resistive load)				
MD4E	8 operation modes	Surface/ flush	-	Time-limit 1(NO+NC)	250V AC 5A (Resistive load)	100 to 240V AC 50/60Hz 24V AC/DC 50/60Hz	100V AC approx. 1.1VA 200V AV approx. 1.5VA 24V DC approx. 0.8W 24V AC approx. 1.1VA	0.001s to 9999h ( 9.999s 99min 59s 99.99s 99h 59min 999.9s 9999h 9999s )	
MS7S1	On-delay	Surface	Time up	Time-limit 1(NO+NC)	220V AC 1A (Resistive load)				100/200V AC 110/220V AC 50/60Hz Terminal switchover 24V AC, 24V DC

Note: For connection, use a socket applicable to the object type.

● Supertimer

Standard	Type	Operation	Control output	UL File No.
UL	MS4SM	On-delay Flicker One-shot momentary action Signal off-delay	Contact rating: 5A, 250V AC (resistive load)	E44592
	MS4SA	On-delay		
	MS4SC	On-delay	Contact rating: 5A, 240V AC (resistive load)	
	MS4SR	Repeat	Contact rating: 5A, 250V AC (resistive load)	
	MS4SF	Off-delay	Contact rating: 3A, 250V AC (resistive load)	
	MS4SF-R	Off-delay	Contact rating: 5A, 250V AC (resistive load)	
	MS4SY	Star-delta	Contact rating: 5A, 240V AC (resistive load)	
	MS4SE	Electrically reset off-delay	Contact rating: 5A, 250V AC (resistive load)	
	MS7S1	On-delay	Contact rating: 1A, 220V AC (resistive load)	
	ST7P-2	On-delay	Contact rating: 3A, 240V AC (resistive load)	
	ST7P-4	On-delay		

● Digital timer

Standard	Type	Operation	Control output	UL File No.
UL	MD4E	8 modes	Contact rating: 5A, 250V AC (resistive load)	E42419

● Sockets

Standard	Type Standard	Specification	Used with	UL File No.
UL	TP411X	Rail mounting, screw terminal (11-pin)	MS4SM	E195744
	TP411SBA	Flush mounting, screw terminal (11-pin)		
	ATX2NS	Flush mounting, solder terminal (11-pin)		
	TP48X	Rail mounting, screw terminal (8-pin)	MS4SA MS4SC MS4SF MS4SY MS4SE MS4SR MD4E	E90265
	TP48SB	Flush mounting, screw terminal (8-pin)		
	ATX1NS	Flush mounting, solder terminal (8-pin)		
	TP88X1	Rail mounting, screw terminal (8-pin)		
	TP88X2		ST7P-2	E90265
	TP88	Surface mounting, solder terminal (8-pin)		
	TP88R2	Surface mounting, wire wrap (8-pin)		
	TP88B	Surface mounting, PC board (8-pin)		
	TP814X1	Rail mounting, screw terminal (11-pin)	ST7P-4	E90265
	TP814X2			
	TP814	Surface mounting, solder terminal (11-pin)		
	TP814R2	Surface mounting, wire wrap (11-pin)		
	TP814B	Surface mounting, PC board (11-pin)		