






Timers

Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · Δ · Power OFF Delay · General-Purpose Analog Timer

Series	Display Method	Operation Method	Output Operation	Time Operation	Terminal	Power Supply	External Power Supply	Memory Protection
Compact LCD Display Timer (Indicator Only) LE8N Series  W48×H24×L54mm	8-digit 7-segment LCD	Count up	—	POWER ON START	Terminal block	Built-in battery (over 10 years)	—	—
Programmable Timer (Counter) CT4S Series  W48×H48×L90mm	4-digit 7-segment LED	Count up, Count down	SIGNAL ON DELAY, POWER ON DELAY, FLICKER, INTERVAL, SIGNAL OFF DELAY, ON-OFF DELAY, INTEGRATION TIME	POWER ON START, SIGNAL ON START	Terminal block	24VAC, 24-48VDC	Max. 12VDC 100mA	Approx. 10 years
Programmable Timer (Counter) CT6S Series  W48×H48×L90mm	6-digit 7-segment LED	Count up, Count down	SIGNAL ON DELAY, POWER ON DELAY, FLICKER, INTERVAL, SIGNAL OFF DELAY, ON-OFF DELAY, INTEGRATION TIME	POWER ON START, SIGNAL ON START	Terminal block	24VAC, 24-48VDC	Max. 12VDC 100mA	Approx. 10 years
Programmable Timer (Counter) CT6Y Series  W72×H36×L77mm	6-digit 7-segment LED	Count up, Count down	SIGNAL ON DELAY, POWER ON DELAY, FLICKER, INTERVAL, SIGNAL OFF DELAY, ON-OFF DELAY, INTEGRATION TIME	POWER ON START, SIGNAL ON START	Terminal block	24VAC, 24-48VDC	Max. 12VDC 100mA	Approx. 10 years
Programmable Timer (Counter) CT6M Series  W72×H72×L85mm	6-digit 7-segment LED	Count up, Count down	SIGNAL ON DELAY, POWER ON DELAY, FLICKER, INTERVAL, SIGNAL OFF DELAY, ON-OFF DELAY, INTEGRATION TIME	POWER ON START, SIGNAL ON START	Terminal block	24VAC, 24-48VDC	Max. 12VDC 100mA	Approx. 10 years

Setting Range	Input Method		Control Output	Backlight	Protection Structure	Approval	Model
	Signal	Reset					
0.01 sec to 9999 hour 59 min 59 sec, 0.1 min to 99999 hour 59.9 min, 1 min to 999999 hour 59 min, 1 min to 9999 day 23 hour 59 min, 0.1 hour to 9999 day 23.9 hour, 1 sec to 9999999 sec, 0.1 min to 9999 hour 59 min, 1 min to 99999 hour 59 min, 0.1 hour to 999999.9 hour	Free voltage input	No-voltage input (NPN)	Indicator	—	IP66 (front panel)	CE c RU us	LE8N-BF
	No-voltage input (NPN)	No-voltage input (NPN)	Indicator	● —	IP66 (front panel)		LE8N-BN-L LE8N-BN
	Voltage input (PNP)	Voltage input (PNP)	Indicator	● —	IP66 (front panel)		LE8N-BV-L LE8N-BV

Setting Range	Signal Input Method	Control Output			Comm. Output	Protection Structure	Approval	Model
		Type	Relay	NPN Open Collector				
0.001 sec to 9.999 sec, 0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 9999 min, 1 min to 99 hour 59 min, 1 hour to 9999 hour	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 2	1 —	— RS485	IP65 (front panel)	CE c RU us	CT4S-2P2 CT4S-2P2T
		1-stage preset	SPDT (1c): 1	1 —	— RS485			CT4S-1P2 CT4S-1P2T
	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 2	1 —	— RS485	IP65 (front panel)	CE c RU us	CT4S-2P4 CT4S-2P4T
		1-stage preset	SPDT (1c): 1	1 —	— RS485			CT4S-1P4 CT4S-1P4T

0.001 sec to 999.999 sec, 0.01 sec to 9999.99 sec, 0.1 sec to 99999.9 sec, 1 sec to 999999 sec, 0.01 sec to 99 min 59.99 sec, 0.1 sec to 999 min 59.9 sec, 1 sec to 9999 min 59 sec, 0.1 min to 99999.9 min, 1 min to 999999 min, 1 min to 99 hour 59 min 59 sec, 1 min to 9999 hour 59 min, 0.1 hour to 99999.9 hour	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 2	1 —	— RS485	IP65 (front panel)	CE c RU us	CT6S-2P2 CT6S-2P2T
		1-stage preset	SPDT (1c): 1	1 —	— RS485			CT6S-1P2 CT6S-1P2T
		Indicator	—	—	— RS485			CT6S-I2 CT6S-I2T
	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 2	1 —	— RS485	IP65 (front panel)	CE c RU us	CT6S-2P4 CT6S-2P4T
		1-stage preset	SPDT (1c): 1	1 —	— RS485			CT6S-1P4 CT6S-1P4T
		Indicator	—	—	— RS485			CT6S-I4 CT6S-I4T















0.001 sec to 999.999 sec, 0.01 sec to 9999.99 sec, 0.1 sec to 99999.9 sec, 1 sec to 999999 sec, 0.01 sec to 99 min 59.99 sec, 0.1 sec to 999 min 59.9 sec, 1 sec to 9999 min 59 sec, 0.1 min to 99999.9 min, 1 min to 999999 min, 1 min to 99 hour 59 min 59 sec, 1 min to 9999 hour 59 min, 0.1 hour to 99999.9 hour	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 1, SPDT (1c): 1 SPST (1a): 2	1 —	— RS485	IP65 (front panel)	CE c RU us	CT6Y-2P2 CT6Y-2P2T
		1-stage preset	SPDT (1c): 1	1	— RS485			CT6Y-1P2 CT6Y-1P2T
		Indicator	—	—	— RS485			CT6Y-I2 CT6Y-I2T
	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 1, SPDT (1c): 1 SPST (1a): 2	1 —	— RS485	IP65 (front panel)	CE c RU us	CT6Y-2P4 CT6Y-2P4T
		1-stage preset	SPDT (1c): 1	1	— RS485			CT6Y-1P4 CT6Y-1P4T
		Indicator	—	—	— RS485			CT6Y-I4 CT6Y-I4T

0.001 sec to 999.999 sec, 0.01 sec to 9999.99 sec, 0.1 sec to 99999.9 sec, 1 sec to 999999 sec, 0.01 sec to 99 min 59.99 sec, 0.1 sec to 999 min 59.9 sec, 1 sec to 9999 min 59 sec, 0.1 min to 99999.9 min, 1 min to 999999 min, 1 min to 99 hour 59 min 59 sec, 1 min to 9999 hour 59 min, 0.1 hour to 99999.9 hour	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 1, SPDT (1c): 1	3 2	— RS485	IP65 (front panel)	CE c RU us	CT6M-2P2 CT6M-2P2T
		1-stage preset	SPDT (1c): 1	2	— RS485			CT6M-1P2 CT6M-1P2T
		Indicator	—	—	— RS485			CT6M-I2 CT6M-I2T
	Voltage input (PNP), No-voltage input (NPN)	2-stage preset	SPST (1a): 1, SPDT (1c): 1	3 2	— RS485	IP65 (front panel)	CE c RU us	CT6M-2P4 CT6M-2P4T
		1-stage preset	SPDT (1c): 1	2	— RS485			CT6M-1P4 CT6M-1P4T
		Indicator	—	—	— RS485			CT6M-I4 CT6M-I4T

Timers




Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · λ - Δ · Power OFF Delay · General-Purpose Analog Timer

Series	Display Method	Operation Method	Output Operation	Time Operation	Terminal	Power Supply	External Power Supply	Memory Protection	
Timer (Indicator Only) (Counter) FXV Series  W72×H36×L93mm	4-digit 7-segment LED	Count up, Count down	—	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
	6-digit 7-segment LED	Count up, Count down	—	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
Compact, Thumbwheel Switch Setting Type Up-Down Timer (Counter) FXS Series  W48×H48×L91mm	4-digit 7-segment LED	Count up, Count down	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
	5-digit 7-segment LED	Count up, Count down	—	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
Thumbwheel Switch Setting Type Up-Down Timer (Counter) FX Series  W72×H72×L112.3mm	4-digit 7-segment LED	Count up, Count down	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
						100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
	6-digit 7-segment LED	Count up, Count down	—	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years
							100-240VAC	12VDC Max. 50mA	Approx. 10 years
							12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years
							100-240VAC	12VDC Max. 50mA	Approx. 10 years
6-digit 7-segment LED	Count up, Count down	—	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	
6-digit 7-segment LED	Count up, Count down	—	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years	
						12-24VAC, 12-24VDC	12VDC Max. 50mA	Approx. 10 years	


Setting Range	Signal Input Method	Control Output			Protection Structure	Approval	Model
		Type	Relay	NPN Open Collector			
0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 99 hour 59 min, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	No-voltage input (NPN)	Indicator	—	—	—		FX4Y-I
	No-voltage input (NPN)	Indicator	—	—	—		FX4Y-I
0.1 sec to 99999.9 sec, 1 sec to 999999 sec, 0.01 sec to 99 min 59.99 sec, 0.1 sec to 999 min 59.9 sec, 0.1 sec to 99999.9 min, 1 sec to 99 hour 59 min 59 sec, 1 min to 9999 hour 59 min, 0.1 hour to 99999.9 hour	No-voltage input (NPN)	Indicator	—	—	—		FX6Y-I
	No-voltage input (NPN)	Indicator	—	—	—		FX6Y-I
0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 99 hour 59 min, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	Voltage input (PNP) No-voltage input (NPN)	1-stage preset	SPDT (1c): 1	1	—		FX4S
	Voltage input (PNP) No-voltage input (NPN)	1-stage preset	SPDT (1c): 1	1	—		FX4S
0.1 sec to 9999.9 sec, 1 sec to 99999 sec, 0.01 sec to 9 min 59.99 sec, 0.1 sec to 99 min 59.9 sec, 0.1 min to 9999.9 min, 1 sec to 9 hour 59 min 59 sec, 1 min 999 hour 59 min, 0.1 hour to 9999.9 hour	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—		FX5S-I
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—		FX5S-I
0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 99 hour 59 min, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	Voltage input (PNP) No-voltage input (NPN)	2-stage preset	SPDT (1c): 2	2	—		FX4-2P
	Voltage input (PNP) No-voltage input (NPN)	2-stage preset	SPDT (1c): 2	2	—	—	FX4-2P
	Voltage input (PNP) No-voltage input (NPN)	1-stage preset	SPDT (1c): 1	1	—		FX4
	Voltage input (PNP) No-voltage input (NPN)	1-stage preset	SPDT (1c): 1	1	—	—	FX4
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—		FX4-I
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—	—	FX4-I
0.1 sec to 99999.9 sec, 1 sec to 999999 sec, 0.01 sec to 99 min 59.99 sec, 0.1 sec to 999 min 59.9 sec, 0.1 sec to 99999.9 min, 1 sec to 99 hour 59 min 59 sec, 1 min to 9999 hour 59 min, 0.1 hour to 99999.9 hour	Voltage input (PNP) No-voltage input (NPN)	2-stage preset	SPDT (1c): 2	2	—		FX6-2P
	Voltage input (PNP) No-voltage input (NPN)	1-stage preset	SPDT (1c): 1	1	—		FX6
	Voltage input (PNP) No-voltage input (NPN)	1-stage preset	SPDT (1c): 1	1	—	—	FX6
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—		FX6-I
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—	—	FX6-I
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—	—	FX6-I

Timers




Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · Δ · Power OFF Delay · General-Purpose Analog Timer



Series	Display Method	Operation Method	Output Operation	Time Operation	Terminal	Power Supply	External Power Supply	Memory Protection
Thumbwheel Switch Setting Type Up-Down Timer (Counter) FXH Series  W48×H96×L100mm	4-digit 7-segment LED	Count up, Count down	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years
			—	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years
Thumbwheel Switch Setting Type Up-Down Timer (Counter) FXL Series  W144×H72×L112mm	4-digit 7-segment LED	Count up, Count down	POWER ON DELAY, FLICKER	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years
			—	POWER ON START	Terminal block	100-240VAC	12VDC Max. 50mA	Approx. 10 years
Thumbwheel Switch Setting Type 8-Pin Plug Timer FSE Series  W48×H48×L85mm	4-digit 7-segment LED	Count up, Count down	POWER ON DELAY, FLICKER	POWER ON START	8-pin plug	100-240VAC	—	Approx. 10 years
			—	POWER ON START		12-24VAC, 12-24VDC	—	Approx. 10 years
	5-digit 7-segment LED	Count up, Count down	—	POWER ON START	8-pin plug	100-240VAC	—	Approx. 10 years
			—	POWER ON START		12-24VAC, 12-24VDC	—	Approx. 10 years

※Sold separately: 8-pin socket (PG-08, PS-08(N))




Series	Display Method	Operation Method	Output Operation	Time Operation	Terminal	Power Supply	External Power Supply	Memory Protection
Thumbwheel Switch Setting Type LCD Display Timer LE3S Series  W48×H48×L67mm	3-digit 7-segment LCD	Count up, Count down	POWER ON DELAY	POWER ON START	8-pin plug	24-240VAC, 24-240VDC	—	—
			ON DELAY, INTERVAL DELAY, FLICKER, ONE-SHOT OUT FLICKER, ON-OFF DELAY, OFF DELAY, INTEGRATION TIME	SIGNAL ON START	8-pin plug	24-240VAC, 24-240VDC	—	—

※Sold separately: 8-pin socket (PG-08, PS-08(N))

Setting Range	Signal Input Method	Control Output			Protection Structure	Approval	Model
		Type	Relay	NPN Open Collector			
0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 99 hour 59 min, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	Voltage input (PNP) No-voltage input (NPN)	2-stage preset	SPDT (1c): 2	2	—		FX4H-2P
		1-stage preset	SPDT (1c): 1	1	—		FX4H
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—		FX4H-I


0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 99 hour 59 min, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	Voltage input (PNP) No-voltage input (NPN)	2-stage preset	SPDT (1c): 2	2	—		FX4L-2P
0.1 sec to 99999.9 sec, 1 sec to 999999 sec, 0.01 sec to 99 min 59.99 sec, 0.1 sec to 999 min 59.9 sec, 0.1 sec to 99999.9 min, 1 sec to 99 hour 59 min 59 sec, 1 min to 9999 hour 59 min, 0.1 hour to 99999.9 hour	Voltage input (PNP) No-voltage input (NPN)	2-stage preset	SPDT (1c): 2	2	—	—	FX6L-2P
	Voltage input (PNP) No-voltage input (NPN)	Indicator	—	—	—		FX6L-I

0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 99 hour 59 min, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	No-voltage input (NPN)	1-stage preset	Time-limit SPDT (1c): 1	—	—	—	FS4E
	No-voltage input (NPN)	1-stage preset	Time-limit SPDT (1c): 1	—	—	—	FS4E
0.1 sec to 9999.9 sec, 1 sec to 99999 sec, 0.01 sec to 9 min 59.99 sec, 0.1 sec to 99 min 59.9 sec, 0.1 min to 9999.9 min, 1 sec to 9 hour 59 min 59 sec, 1 min to 999 hour 59 min, 0.1 hour to 9999.9 hour	No-voltage input (NPN)	Indicator	—	—	—	—	FS5EI
	No-voltage input (NPN)	Indicator	—	—	—	—	FS5EI


Setting Range	Signal Input Method	Control Output		Backlight	Protection Structure	Approval	Model
		Relay	NPN Open Collector				
0.01 sec to 9.99 sec, 0.1 sec to 99.9 sec, 1 sec to 999 sec, 0.1 min to 99.9 min, 1 min to 999 min, 0.1 hour to 99.9 hour, 1 hour to 999 hour, 10 hour to 9990 hour, 0 min 01 sec to 9 min 59 sec, 0 hour 01 min to 9 hour 59 min	—	Time-limit SPDT (1c): 2	—	—	—		LE3SA
		Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—		LE3SB
	No-voltage input (NPN)	Time-limit SPDT (1c): 1	—	—	—		LE3S


Timers


Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · Δ · Power OFF Delay · General-Purpose Analog Timer

Series	Display Method	Operation Method	Output Operation	Time Operation	Terminal	Power Supply	External Power Supply	Memory Protection
LCD Display Timer LE4S Series  W48×H48×L70mm	4-digit 7-segment LCD	Count up, Count down	ON DELAY, INTERVAL, FLICKER, STAR-DELTA, TWIN	POWER ON START	8-pin plug	24-240VAC, 24-240VDC	—	—
			ON DELAY, INTERVAL, FLICKER, ON-OFF DELAY, OFF DELAY	SIGNAL ON START	8-pin plug	24-240VAC, 24-240VDC	—	—


※Sold separately: 8-pin socket (PG-08, PS-08(N))

Series	Number Of Setting Steps	Operation Method	Output Operation	Terminal	Power Supply	External Power Supply
Weekly/Yearly Timer LE7M-2  W72×H72×L60mm	Weekly 48 steps, Yearly 24 steps	Time setting	ON/OFF, CYCLE, PULSE	Terminal block	100-240VAC	—



Weekly/Yearly Timer LE365S-41  W48×H48×L60mm	Weekly 48 steps, Yearly 24 steps	Time setting	ON/OFF, CYCLE, PULSE	Terminal block	100-240VAC	—
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Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
Miniature Analog Timer ATM Series  W21.5×H28×L59.3mm	Time setting	POWER ON DELAY	POWER ON START	14-pin plug	■: Type 2: 24VDC 5: 220VAC 6: 110VAC

※Sold separately: My socket

Compact Multi-Function Analog Timer ATS8 Series  W38×H42×L83.5mm	Time setting	POWER ON DELAY, FLICKER, INTERVAL	POWER ON START	8-pin plug	12VDC 24VAC, 24VDC 100-240VAC, 24-240VDC 12VDC 24VAC, 24VDC 100-240VAC, 24-240VDC
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※Sold separately: 8-pin socket (PG-08, PS-08(N), MS-08)

Setting Range	Signal Input Method	Control Output		Backlight	Protection Structure	Approval	Model
		Relay	NPN Open Collector				
0.01 sec to 9.999 sec, 0.01 sec to 99.99 sec, 0.1 sec to 999.9 sec, 1 sec to 9999 sec, 0 min 1 sec to 99 min 59 sec, 0.1 min to 999.9 min, 1 min to 9999 min, 0 hour 1 min to 99 hour 59 min, 0.01 hour to 99.99 hour, 0.1 hour to 999.9 hour, 1 hour to 9999 hour	—	Time-limit SPDT (1c): 2 or Time-limit SPDT (1c): 1 + Instantaneous SPDT (1c): 1 depending on output operation mode		●	—	CE  US	LE4SA
	No-voltage input (NPN)	Time-limit SPDT (1c): 1		●	—	CE  US	LE4S

Memory Protection	Signal Input Method	Control Output		Time/Month Deviation	Protection Structure	Approval	Model
		Relay	NPN Open Collector				
Approx. 5 years	—	SPDT (1c): 2	—	±15 sec/month	—	—	LE7M-2

Approx. 5 years	—	SPST (1a): 1	—	±15 sec/month	—	—	LE365S-41
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Setting Range	Signal Input Method	Control Output		Protection Structure	Approval	Model
		Relay	NPN Open Collector			
0.1 to 1 sec	—	SPDT (1c): 4	—	—	CE	ATM4-■1S
0.5 to 5 sec	—	SPDT (1c): 4	—	—	CE	ATM4-■5S
1 to 10 sec	—	SPDT (1c): 4	—	—	CE	ATM4-■10S
3 to 30 sec	—	SPDT (1c): 4	—	—	CE	ATM4-■30S
6 to 60 sec	—	SPDT (1c): 4	—	—	CE	ATM4-■60S
0.3 to 3 min	—	SPDT (1c): 4	—	—	CE	ATM4-■3M
0.5 to 5 min	—	SPDT (1c): 4	—	—	CE	ATM4-■5M
1 to 10 min	—	SPDT (1c): 4	—	—	CE	ATM4-■10M
3 to 30 min	—	SPDT (1c): 4	—	—	CE	ATM4-■30M
6 to 60 min	—	SPDT (1c): 4	—	—	CE	ATM4-■60M
0.3 to 3 hour	—	SPDT (1c): 4	—	—	CE	ATM4-■3H

0.1 to 1 sec, 1 to 10 sec, 0.1 to 1 min, 1 to 10 min, 0.1 to 1 hour, 1 to 10 hour	—	Time-limit SPDT (1c): 2 or Instantaneous SPDT (1c): 1+ Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE  US	ATS8-11
						ATS8-21
						ATS8-41
0.3 to 3 sec, 3 to 30 sec, 0.3 to 3 min, 3 to 30 min, 0.3 to 3 hour, 3 to 30 hour	—	Time-limit SPDT (1c): 2 or Instantaneous SPDT (1c): 1+ Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE  US	ATS8-13
						ATS8-23
						ATS8-43

Timers


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Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
Compact Multi-Function Analog Timer ATS11 Series  W38×H42×L83.5mm	Time setting	SIGNAL ON DELAY, SIGNAL OFF DELAY, SIGNAL ON-OFF DELAY, FLICKER, INTERVAL	SIGNAL ON START	11-pin plug	12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
					12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
					12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
					12VDC
24VAC, 24VDC					
100-240VAC, 24-240VDC					
※Sold separately: 11-pin socket (PG-11, PS-11(N))					
Compact λ-Δ Analog Timer ATS8SD-4  W38×H42×L83.5mm	Time setting	STAR-DELTA	POWER ON START	8-pin plug	100-240VAC, 24-240VDC
					※Sold separately: 8-pin socket (PG-08, PS-08(N))
Compact Power OFF Delay Analog Timer ATS8P Series  W38×H42×L75.5mm	Time setting	POWER OFF DELAY	POWER OFF START	8-pin plug	24VAC, 24VDC
					200-240VAC
					100-120VAC
					24VAC, 24VDC
					200-240VAC
					100-120VAC
※Sold separately: 8-pin socket (PG-08, PS-08(N), MS-08)					
Compact Twin Analog Timer ATS8W Series  W38×H42×L75.5mm	Time setting	FLICKER	POWER ON START	8-pin plug	12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
					12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
※Sold separately: 8-pin socket (PG-08, PS-08(N), MS-08)					
Compact Twin Analog Timer ATS11W Series  W38×H42×L75.5mm	Time setting	FLICKER	POWER ON START	11-pin plug	12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
					12VDC
					24VAC, 24VDC
					100-240VAC, 24-240VDC
※Sold separately: 11-pin socket (PG-11, PS-11(N))					


Setting Range	Signal Input Method	Control Output		Protection Structure	Approval	Model
		Relay	NPN Open Collector			
0.1 to 1 sec, 1 to 10 sec, 0.1 to 1 min, 1 to 10 min, 0.1 to 1 hour, 1 to 10 hour	No-voltage input (NPN)	Time-limit SPDT (1c): 2	—	—	CE  US	ATS11-11D
						ATS11-21D
						ATS11-41D
0.3 to 3 sec, 3 to 30 sec, 0.3 to 3 min, 3 to 30 min, 0.3 to 3 hour, 3 to 30 hour	No-voltage input (NPN)	Time-limit SPDT (1c): 2	—	—	CE  US	ATS11-13D
						ATS11-23D
						ATS11-43D
0.1 to 1 sec, 1 to 10 sec, 0.1 to 1 min, 1 to 10 min, 0.1 to 1 hour, 1 to 10 hour	No-voltage input (NPN)	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	CE  US	ATS11-11E
						ATS11-21E
						ATS11-41E
0.3 to 3 sec, 3 to 30 sec, 0.3 to 3 min, 3 to 30 min, 0.3 to 3 hour, 3 to 30 hour	No-voltage input (NPN)	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	CE  US	ATS11-13E
						ATS11-23E
						ATS11-43E
0.5 to 5 sec, 1 to 10 sec, 5 to 50 sec, 10 to 100 sec	—	STAR contact: SPST (1a): 1, DELTA contact: SPST (1a): 1	—	—	CE  US	ATS8SD-4
0.1 to 1 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8P-2S
0.1 to 1 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8P-5S
0.1 to 1 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8P-6S
0.1 to 1 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8P-2M
0.1 to 1 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8P-5M
0.1 to 1 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8P-6M
0.1 to 1 sec, 1 to 10 sec, 0.1 to 1 min, 1 to 10 min, 0.1 to 1 hour, 1 to 10 hour	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8W-11
	—	or Instantaneous SPDT (1c): 1+	—	—	CE  US	ATS8W-21
	—	Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE  US	ATS8W-41
0.3 to 3 sec, 3 to 30 sec, 0.3 to 3 min, 3 to 30 min, 0.3 to 3 hour, 3 to 30 hour	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS8W-13
	—	or Instantaneous SPDT (1c): 1+	—	—	CE  US	ATS8W-23
	—	Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE  US	ATS8W-43
0.1 to 1 sec, 1 to 10 sec, 0.1 to 1 min, 1 to 10 min, 0.1 to 1 hour, 1 to 10 hour	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS11W-11
	—	or Instantaneous SPDT (1c): 1+	—	—	CE  US	ATS11W-21
	—	Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE  US	ATS11W-41
0.3 to 3 sec, 3 to 30 sec, 0.3 to 3 min, 3 to 30 min, 0.3 to 3 hour, 3 to 30 hour	—	Time-limit SPDT (1c): 2	—	—	CE  US	ATS11W-13
	—	or Instantaneous SPDT (1c): 1+	—	—	CE  US	ATS11W-23
	—	Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE  US	ATS11W-43

Timers


Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · Δ - Δ · Power OFF Delay · General-Purpose Analog Timer

Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
Multi Function Analog Timer AT8N Series  W48×H48×L64.5mm	Time setting	POWER ON DELAY, FLICKER, INTERVAL	POWER ON START	8-pin plug	12VDC 24VAC, 24V DC 100-240VAC, 24-240VDC


※Sold separately: 8-pin socket (PG-08, PS-08(N))

Multi Function Analog Timer AT11DN Series  W48×H48×L64.5mm	Time setting	SIGNAL ON DELAY, SIGNAL OFF DELAY, SIGNAL ON-OFF DELAY, FLICKER, INTERVAL	SIGNAL ON START	11-pin plug	12VDC 24VAC, 24VDC 100-240VAC, 24-240VDC
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※Sold separately: 11-pin socket (PG-11, PS-11(N))

Multi Function Analog Timer AT11EN Series  W48×H48×L64.5mm	Time setting	SIGNAL ON DELAY, SIGNAL OFF DELAY, SIGNAL ON-OFF DELAY, FLICKER, INTERVAL	SIGNAL ON START	11-pin plug	12VDC 24VAC, 24VDC 100-240VAC, 24-240VDC
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※Sold separately: 11-pin socket (PG-11, PS-11(N))


Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
Δ-Δ Analog Timer AT8SDN  W48×H48×L64.5mm	Time setting	STAR-DELTA	POWER ON START	8-pin plug	100-240VAC, 24-240VDC

※Sold separately: 8-pin socket (PG-08, PS-08(N))


Setting Range	Signal Input Method	Control Output		Protection Structure	Approval	Model
		Relay	NPN Open Collector			
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec, 0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min, 0.05 to 0.5 hour, 0.1 to 1 hour, 0.5 to 5 hour, 1 to 10 hour, 5 to 50 hour, 10 to 100 hour	—	Time-limit SPDT (1c): 2 or Instantaneous SPDT (1c): 1 + Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE c RU us	AT8N-1
	—	Time-limit SPDT (1c): 2 or Instantaneous SPDT (1c): 1 + Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE c RU us	AT8N-2
	—	Time-limit SPDT (1c): 2 or Instantaneous SPDT (1c): 1 + Time-limit SPDT (1c): 1 depending on output operation mode	—	—	CE c RU us	AT8N
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec, 0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min, 0.05 to 0.5 hour, 0.1 to 1 hour, 0.5 to 5 hour, 1 to 10 hour, 5 to 50 hour, 10 to 100 hour	No-voltage input (NPN)	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT11DN-1
	No-voltage input (NPN)	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT11DN-2
	No-voltage input (NPN)	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT11DN
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec, 0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min, 0.05 to 0.5 hour, 0.1 to 1 hour, 0.5 to 5 hour, 1 to 10 hour, 5 to 50 hour, 10 to 100 hour	No-voltage input (NPN)	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	CE c RU us	AT11EN-1
	No-voltage input (NPN)	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	CE c RU us	AT11EN-2
	No-voltage input (NPN)	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	CE c RU us	AT11EN
Setting Range	Signal Input Method	Control Output		Protection Structure	Approval	Model
0.5 to 5 sec, 1 to 10 sec, 5 to 50 sec, 10 to 100 sec	—	Relay	NPN Open Collector	—	CE c RU us	AT8SDN
		STAR contact: SPST (1a): 1, DELTA contact: SPST (1a): 1	—			

Timers


Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · λ - Δ · Power OFF Delay · General-Purpose Analog Timer

Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
Power OFF Delay Analog Timer AT8PSN Series  W48×H48×L64.5mm	Time setting	POWER OFF DELAY	POWER OFF START	8-pin plug	24VAC, 24VDC
					100-120VAC
					100/110VDC
					200-240VAC

※Sold separately: 8-pin socket (PG-08, PS-08(N))

Power OFF Delay Analog Timer AT8PMN Series  W48×H48×L64.5mm	Time setting	POWER OFF DELAY	POWER OFF START	8-pin plug	24VAC, 24VDC
					100-120VAC
					100/110VDC
					200-240VAC

※Sold separately: 8-pin socket (PG-08, PS-08(N))

Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
General-Purpose, Analog Timer ATE Series  W48×H48×L80mm	Time setting	POWER ON DELAY	POWER ON START	8-pin plug	110VAC, 220VAC


※Sold separately: 8-pin socket (PG-08, PS-08(N)), Fixing bracket (PGB48-W)

Setting Range	Signal Input Method	Control Output		Protection Structure	Approval	Model
		Relay	NPN Open Collector			
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PSN-2
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PSN-6
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PSN-7
0.05 to 0.5 sec, 0.1 to 1 sec, 0.5 to 5 sec, 1 to 10 sec	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PSN
0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PMN-2
0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PMN-6
0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PMN-7
0.05 to 0.5 min, 0.1 to 1 min, 0.5 to 5 min, 1 to 10 min	—	Time-limit SPDT (1c): 2	—	—	CE c RU us	AT8PMN


Setting Range	Control Output		Protection Structure	Approval	Model
	Relay	NPN Open Collector			
0.1 to 1 sec	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-1S
0.3 to 3 sec	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-3S
0.6 to 6 sec	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-6S
1 to 10 sec	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-10S
3 to 30 sec	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-30S
0.6 to 60 sec	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-60S
0.3 to 3 min	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-3M
0.6 to 6 min	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-6M
1 to 10 min	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-10M
3 to 30 min	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-30M
0.6 to 60 min	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-60M
0.3 to 3 hour	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-3H
0.6 to 6 hour	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-6H
1.2 to 12 hour	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-12H
2.4 to 24 hour	Time-limit SPDT (1c): 1, Instantaneous SPST(1a): 1	—	—	—	ATE-24H

Timers

Compact, LCD Display Timer (Indicator Only) / Programmable Timer / Timer (Indicator Only) / Thumbwheel Switch Setting Type 8-Pin Plug Up · Down Timer / Thumbwheel Switch Setting Type LCD Display Timer / LCD Display Timer / Multi Function · λ - Δ · Power OFF Delay · General-Purpose Analog Timer

Series	Operation Method	Output Operation	Time Operation	Terminal	Power Supply
General-Purpose, Analog Timer ATE1 Series  W48×H48×L80mm	Time setting	POWER ON DELAY	POWER ON START	8-pin plug	220VAC
					220VAC
					24VDC
					220VAC
					220VAC
					110VAC
					24VDC
					110VAC
					220VAC
					110VAC
					24VDC
					220VAC
					110VAC
					24VDC

※Sold separately: 8-pin socket (PG-08, PS-08(N)), Fixing bracket (PGB48-W)

General-Purpose, Analog Timer ATE2 Series  W48×H48×L80mm	Time setting	POWER ON DELAY	POWER ON START	8-pin plug	220VAC
					220VAC
					24VDC
					220VAC
					220VAC
					24VDC
					220VAC
					24VDC
					220VAC
					24VDC
					220VAC
					24VDC
					220VAC
					220VAC

※Sold separately: 8-pin socket (PG-08, PS-08(N)), Fixing bracket (PGB48-W)

Setting Range	Control Output		Protection Structure	Approval	Model
	Relay	NPN Open Collector			
0.1 to 1 sec	Time-limit SPDT (1c): 2	—	—	—	ATE1-1S
0.3 to 3 sec	Time-limit SPDT (1c): 2	—	—	—	ATE1-3S
					ATE1-3S
0.6 to 6 sec	Time-limit SPDT (1c): 2	—	—	—	ATE1-6S
					ATE1-10S
1 to 10 sec	Time-limit SPDT (1c): 2	—	—	—	ATE1-10S
					ATE1-10S
					ATE1-10S
3 to 30 sec	Time-limit SPDT (1c): 2	—	—	—	ATE1-30S
					ATE1-30S
					ATE1-30S
6 to 60 sec	Time-limit SPDT (1c): 2	—	—	—	ATE1-60S
					ATE1-60S
					ATE1-60S
0.3 to 3 min	Time-limit SPDT (1c): 2	—	—	—	ATE1-3M
0.6 to 6 min	Time-limit SPDT (1c): 2	—	—	—	ATE1-6M
1 to 10 min	Time-limit SPDT (1c): 2	—	—	—	ATE1-10M
					ATE1-10M
3 to 30 min	Time-limit SPDT (1c): 2	—	—	—	ATE1-30M
6 to 60 min	Time-limit SPDT (1c): 2	—	—	—	ATE1-60M
0.3 to 3 hour	Time-limit SPDT (1c): 2	—	—	—	ATE1-3H
0.6 to 6 hour	Time-limit SPDT (1c): 2	—	—	—	ATE1-6H
1.2 to 12 hour	Time-limit SPDT (1c): 2	—	—	—	ATE1-12H
2.4 to 24 hour	Time-limit SPDT (1c): 2	—	—	—	ATE1-24H

0.1 to 1 sec	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-1S
0.3 to 3 sec	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-3S
					ATE2-3S
0.6 to 6 sec	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-6S
					ATE2-10S
1 to 10 sec	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-10S
					ATE2-10S
3 to 30 sec	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-30S
					ATE2-30S
6 to 60 sec	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-60S
					ATE2-60S
0.3 to 3 min	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-3M
0.6 to 6 min	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-6M
1 to 10 min	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-10M
3 to 30 min	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-30M
6 to 60 min	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-60M
0.3 to 3 hour	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-3H
0.6 to 6 hour	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-6H
1.2 to 12 hour	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-12H
2.4 to 24 hour	Time-limit SPDT (1c): 1, Instantaneous SPDT (1c): 1	—	—	—	ATE2-24H