





LC series LCD Counter / Timers

Specifications

Model	LC6	LC4	LC3	LC7	
Appearance					
W×H×D (mm)	72.0×36.0×84.1	48.0×48.0×79.5	96.0×48.0×71.1	72.0×72.0×92.9	
Power voltage	100 - 240 V a.c. 50/60 Hz (voltage fluctuation rate: ±10 %)				
Power consumption	2-stage setting: max. 12 VA. 1-stage setting: max. 11 VA				
Character height	Counting unit (10.5 mm), Setting unit (6.7 mm)	6-digit: counting unit (10.8 mm), setting unit (8 mm) 4-digit: counting unit (14 mm), setting unit (8.5 mm)	Counting unit (14.5 mm), Setting unit (10 mm)	Counting unit (17.2 mm), Setting unit (12.5 mm)	
Maximum counting speed	1 cps / 30 cps / 1 Kcps / 10 Kcps				
Power outage compensation	10 years (using non-volatile memory)				
Input	<ul style="list-style-type: none"> ● Selection of input method by external switch (voltage input / non-voltage input) ● Counter: composed of CP1, CP2, RESET, BATCH-RESET ● Timer: composed of START, INHIBIT, RESET ● Voltage input: HIGH level (5 - 30 V d.c.), LOW level (0 - 2 V d.c.), input resistance (about 4.5 kΩ) ● Non-voltage input: impedance during short-circuit (max. 1 kΩ), residual voltage during short-circuit (max. 2 V d.c.) 				
Minimum input signal time	1 ms / 20 ms (START, INHIBIT, RESET inputs)				
External power supply	Max. 12 V d.c. 100 mA				
ONE SHOT output	0.01 ~ 99.99 SEC				
Control output	Contact	1-stage setting	OUT (SPST, 1a)	OUT (SPDT, 1c)	OUT (SPDT, 1c)
		2-stage setting	OUT1 (SPST, 1a), OUT2 (SPDT, 1c) * OUT2 of LC6-P62C: SPST configuration		
	Contactless	Capacity	SPDT: NC (250 V a.c. 5A), NO (250 V a.c. 2A), resistive load		SPST: 250 V a.c. 5A, resistive load
		1-stage setting	NPN 2 circuits (OUT, BAT.O) * LC4-P61C/P41C models NPN 1 circuit configuration		
		2-stage setting	-	NPN 2 circuits (OUT1, OUT2)	NPN 2 circuits (OUT1, OUT2)
		Capacity	Open collector, max. 30 V d.c. 100 mA		
Timer operation error	Power start: max. ±0.01 % ±0.05 sec, Reset start: max. ±0.01 % ± 0.03 sec				
Communication	Protocol	Modbus-RTU			
	Communication type	RS485 (2-wire half-duplex)			
	Synchronization	Asynchronous			
	Communication speed	2,400 / 4,800 / 9,600 / 19,200 / 38,400 bps			
	Effective distance	Max. within 800 m			
	Max. connections	31 (address:1 ~ 127)			
	Response waiting time	5 ~ 99 ms			
	Start bit	1 bit (fixed)			
	Stop bit	1 bit (fixed)			
Data bit	8 bit				
Parity bit	None / Odd / Even				
Insulation Resistance	Min. 100 MΩ (500 V d.c.) conductive terminal - unfilled metal				
Dielectric strength	2000 V a.c. 60 Hz for 1 min (different live part terminals)				
Noise immunity	Square-wave noise by noise simulator (1 μs pulse every 16 ms), ±2000 V (pulse width 1 μs)				
Vibration resistance	10 - 55 Hz, single amplitude 0.5 mm, 3-axis each direction, 2 h				
Relay Life	Electrical	Min. 50,000 times			
	Mechanical	Min. 10 million times			
Degree of protection	IP66 (IEC 60529) (product front)				
Storage temperature	-20 ~ 65 °C				
Ambient temperature & humidity	-10 ~ 55 °C, 35 ~ 85 % RH (without condensation)				

Suffix code

Model	Code	Content
LC	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	LCD Counter / Timer
Appearance	3	96(W) × 48(H) mm
	4	48(W) × 48(H) mm
	6	72(W) × 36(H) mm
	7	72(W) × 72(H) mm
Type	P	Preset Counter / Timer
Display digits	4	4 digit display (9999) ※ LC4 only
	6	6 digit display (999999)
Setting stages	1	1-stage setting
	2	2-stage setting
Sub output	N	No sub output
	C	RS485 (MODBUS-RTU)
Power voltage	A	100 - 240 V a.c. 50/60 Hz