Electromagnetic Counter | CSK

Miniature, Electromagnetic Totalizing Counter

- High-speed response (up to 35 cps)
- Locking mechanism for errorless operation
- Unique mechanism eliminates digit displacement during resets
- UL listed model also available (File No. E67871)

Ordering Information

Numbering of digits	Resetting system	Locking mechanism	Surface mounting: Wire-wrap terminals	Surface mounting: Lead wires	Flush mounting: Wire-wrap terminals	Flush mounting: Lead wires
4 digits	Manual reset	No	CSK4	CSK4-W	CSK4-Y	CSK4-YW
		Yes	CSK4-K	CSK4-KW	CSK4-YK	CSK4-YKW
	Non-resetting	No	---	CSK4-LW	CSK4-YL	CSK4-YLW
6 digits	Manual reset	No	CSK6	CSK6-W	CSK6-Y	CSK6-YW
		Yes	CSK6-K	CSK6-KW	CSK6-YK	CSK6-YKW
	Non-resetting	No	---	CSK6-LW	CSK6-YL	CSK6-YLW

Note: 1. When placing your order, specify the desired supply voltage listed in *Specifications* and a UL listed model if required, in addition to the model number.
2. If a UL listed model is required, specify this in your order in addition to the desired model number.

Specifications

■ Ratings

Supply voltage (see note)	100, 200 VAC, 50/60 Hz 6, 12, 24, 48, 100 VDC
Operating voltage range	85% to 110% of rated voltage
Power consumption	AC: approx. 3 VA DC: approx. 3.5 W
ON time rating	Continuous rating
Counting speed	AC input: 15 cps (contact) (ON/OFF ratio: 1:1) DC input: 20 cps (contact) (ON/OFF ratio: 1:1)

Note: The DC models have no polarity.

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■ Characteristics

Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	1,500 VAC, 50/60 Hz for 1 minute
Vibration resistance	Destruction: 16.7 Hz, 4 mm double amplitude Malfunction: 10 to 55 Hz, 0.5 mm double amplitude
Shock resistance	Destruction: 300 m/sec² (approx. 30G) Malfunction: 50 m/sec² (approx. 5G)
Ambient temperature	Operating: –10°C to 45°C Storage: –25°C to 65°C
Ambient humidity	45% to 85%
Life expectancy	50,000,000 counts
Approved standards (see note)	UL508
Weight	4-digit model: approx. 100 g 6-digit model: approx. 110 g

Note: These standards apply to the -US models only.

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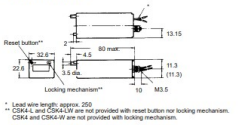
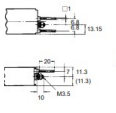
Dimensions

CSK4-W/KW/LW



* Lead wire length: approx. 250
** CSK4-L and CSK4-LW are not provided with reset button nor locking mechanism.
CSK4 and CSK4-W are not provided with locking mechanism.

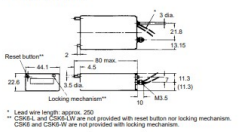
CSK4/K



Mounting Holes
CSK4-W/KW/LW

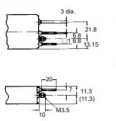
CSK4/K

CSK6-W/KW/LW



* Lead wire length: approx. 250
** CSK6-L and CSK6-LW are not provided with reset button nor locking mechanism.
CSK6 and CSK6-W are not provided with locking mechanism.

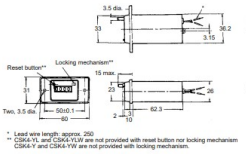
CSK6/K



CSK6-W/KW/LW

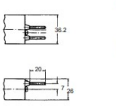
CSK6/K

CSK4-YW/YKW/YLW



* Lead wire length: approx. 250
** CSK4-YL and CSK4-YLW are not provided with reset button nor locking mechanism
CSK4-Y and CSK4-YW are not provided with locking mechanism.

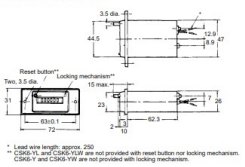
CSK4-Y/YK/YL



CSK4-YW/YKW/YLW
CSK4-Y/YK/YL

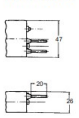
CSK CSK

CSK6-YW/YKW/YLW

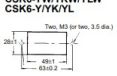


* Lead wire length: approx. 250
** CSK6-YL and CSK6-YLW are not provided with reset button nor locking mechanism.
CSK6-Y and CSK6-YW are not provided with locking mechanism.

CSK6-Y/YK/YL



CSK6-YW/YKW/YLW
CSK6-Y/YK/YL



Precautions

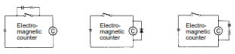
■ Operating

Never attempt to reset the Counter when in operation. It may cause malfunction

Count Signal

(1) Contact Count Input

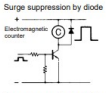
To absorb possible surges and extend the contact life, it is highly recommend that a contact protective circuit be inserted between the contact, or that a surge suppressor be attached across the Counter coil terminals.



(2) Solid-state Count Input

It is necessary to employ a surge suppressor circuit to prevent noise generation and to protect the Counter drive transistor. The diode surge suppressor, if used, will extend the Counter resetting time resulting in response characteristic deterioration. The RC surge suppressor provides a slightly shorter reset time and therefore a better response characteristic; however, it cannot reduce the counterelectromotive force to zero.

Surge suppression by diode



Surge suppression by RC network