

CG48C6SF - Digital Counter



- 1/16 DIN up/down counter with set point
- 6 digit backlit LCD display
- Selectable counting speed
- Adjustable output time
- User programmable scaling
- Built in 12VDC supply for powering external sensors with NPN output

Product Description

Classification: Preset counter
Mounting method: Flush mounting

Input Specifications

Input modes	Reversible UP/DOWN A (command inputs) UP/DOWN B (individual inputs) UP/DOWN C (phase difference inputs)
Prescale function	0.001~99.999 (down 3digits)
Input signals	Count, Reset, and Key protection
Input method	No-Voltage input: Via opening and closing of contact/NPN transistor
Display system	LCD with backlight
Digits	-5~+6 digits
Max. counting speeds (CP1,CP2 count input)	30/1k/5kcps (same setting for CP1 and CP2)
Reset	Min. pulse width for external reset : 1 or 20ms Manual Reset
Key protection	Response time : 1s
Count, Reset inputs	No-voltage input (Approx. 2mA when closed), ON residual voltage: 2V max.
Key protection input	No-voltage input ON impedance :1kW max. (Approx. 2mAwhen 0W) ON residual voltage : 1V max. OFF impedance : 100kW min.

Supply Specifications

Rated supply voltage	100 to 240VAC(50/60Hz)
Operating voltage range	85% to 110% of rated voltage
Power Consumption	Approx. 6.6VA (at 240VAC/60Hz)
Power reset	Power shutdown: 0.5sec or more

Ordering Key	CG48 C 6 S F
Series	CG48
Type: up/down	C
Digits	6
Single set point	S
Sensor supply: 12VDC	F

Output Specifications

Output modes	K, D, L, H (see page 2)
Reset system	External and Manual resets
Sensor power supply	12 VDC/current 12VDC +/- 10%/100mA, (5% ripple max.)
One shot time	10, 20, 100, 200 and 500ms
Control outputs	Contacts: 3Aat 250VAC, resistive load (cos<=1) Transistor output : Open Collector 100mAat 30VDC max. residual voltage 2Vmax. (Typically 1V)

General Specifications

External connections	Screw Terminals
Enclosure ratings	IP54(Panel Surface)
Memory backup	E ² PROM (Up to 100,000 writes)
LCD life	Approx. 10 years
Operating temperature	-10°~55°
Storage temperature	-25°-65°c
Operating humidity	35~85%RH (non-condensing)
Case color	Light Gray
Soft cover	optional - part number CK-48F1

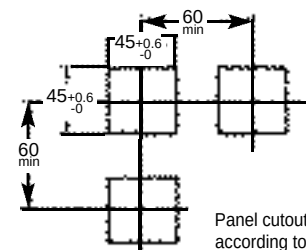
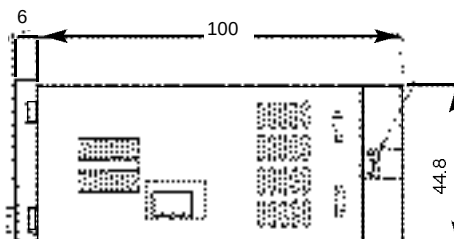
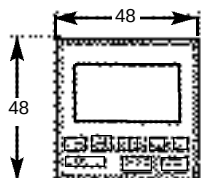


One-shot outputs can be set to between 10 and 1.000ms

OUTPUT MODE		INPUT MODE	OPERATION AFTER COUNT UP
		UP/DOWN A, B, C	
O U T P U T M O D E	K		Present value increments and decrements within displayable range. Outputs go ON for one-shot.
	D		Present value increments and decrements within displayable range. Outputs are ON during the count is equal.
	L		Present value increments and decrements within displayable range. Output 1 is ON whenever present value is less than or equal to Set 1;

Note:

1. Counting inputs are not applied while the reset input is ON.
2. One-shot outputs, when ON, are turned OFF when the reset input goes ON.
3. One-shot outputs, when ON, are reset and the one-shot output is restarted if a preset designating the output is reached.



Panel cutouts as shown according to DIN 43700