KONDA SINGLE PRESET COUNTERS

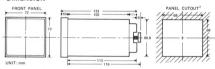




■ AVAILABLE TYPES

OPERATING MODE MEMORY FUNCTION			DOWN MODE YES	UP/DOWN MODE YES
TYPE AND NUMBER OF DIGITS	2 DIGITS	DN-UC-2DMA	DN-DC-2DMA	DN-UDC-2DMA
	3 DIGITS	DN-UC-3DMA	DN-DC-3DMA	DN-UDC-3DMA
	4 DIGITS	DN-UC-4DMA	DN-DC-4DMA	DN-UDC-4DMA
	5 DIGITS	DN-UC-5DMA	DN-DC-5DMA	DN-UDC-5DMA
	6 DIGITS	DN-UC-6DMA	DN-DC-6DMA	DN-UDC-6DMA

DIMENSION



NOTE 3: The standard panel cutout is as shown in the left (for conforming to DIN 43 700).

BATING

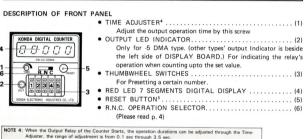
Supply Voltage ¹	110 or 220 VAC, 50/60 HZ, operating voltage range: 85~115%
Power Consumption	Approx. 3.5VA (AC 110 or 220V, 50/60 HZ)
Count and Reset Input	Contact Input: By short-circuiting or opening contacts. Contactless Input: [H] $+6 \sim +24$ VDC, [L] $0 \sim +2$ VDC. Input Impedence: 4.7 k Ω
Counting Speed ² Contact Input: 30 cps. Min. pulse wideth: 16.7 msec. Contactiess input: 300~1000 cps. Min. pulse width: 0.5 msec. (Max. up to to user's inquiring.)	
Reset System	External and Mannual reset (operating mode: N), Reset time: 0.02 sec. Automatic reset: PLease refer to following operating MODE: R and C (Page 4).
Control Output	Contact type: SPDT 250 VAC 5A cos¢ = 1 Contactless type: Open collector 12 VDC, 11 mA max.
Power Supply for External Connected Pulse Generators	12 VDC ± 10% 50 mA (permissible ripple factor: 5% max.)

NOTE 1: Various supply voltage is available by changing one transformer according to user's inquirig.

NOTE 2: The counting system of KONDA counter: 1 PULSE = 1 FIGURE (input signal).

CHARASTERISTICS

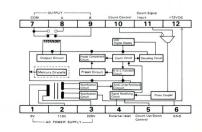
Insulation Resistance		50M Ω min.	
Vibration		Mechanical durability: 10~50 HZ, 0.1 mm double amplitude. Malfunction durability: 10~50 HZ, 0.5 mm double amplitude.	
Shock		Mechanical durability: 300 m/S ² (Approx. 50 G's). Malfunction durability: 100 m/S ² (Approx. 10 G's).	
Dielectric Strength		2,000 VAC, 50/60 HZ for 1 minute.	
Ambient Temperature		Operating: 0°C~50°C (Without condensation).	
Humidity		45~85% RH.	
Service Life		Relay Output: Mechanically → 10,000,000 operations min. Electronically → 1,000,000 operations min.	
Input Signal	Н	+6 VDC ~ +24 VDC	
Voltage Level	L	0 VDC ~ +2 VDC	
Input Resistance		4.7 kΩ	
Weight		600g ± 10%	



*Warning!! Only an "I" type screw driver is recommended Insert into the hole and turn it slightly, any violence can damage the adjuster.

NOTE 5: The Manual Reset button is for checking the zero resetting function, when frequent resettings are needed, please use External Resetting wiring method.

■ BLOCK DIAGRAM OF TERMINALS AND INNER CIRCUITS



■ Since KONDA counter is capable of reading the input data at any time during normal condition operation, the set count could be altered during power application.



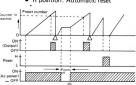
NOTE 6 During normal operation, the set count may be changed by accidently touching a thumbwheel switch causing the courter to operate with the newly set count. To prevent this possiblity, keep the front cover closed except when the set count must be changed.

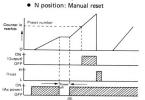
NOTE 7: If the set count is all zeroes, there will be a momentary control output upon power application which can be used to check normal output, When altering the set count value during normal operation, pay special attention not to alter the set value to this state (all zeroes).

NOTE 8: When changing the set count while power is being supplied, an inadequate push of the thumbwheel switches will display two numbers in one digital display window, causing the set count to drift widely. Therefore, press the thumbwheel switches surely. Take good care in the case when the other three digits are all zero, since the improper setting of the fourth switch to create four zeroes will cause a momentary output.

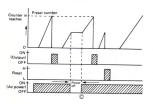
Reset can be done optionally.

- R N C reset:
 - R position: Automatic reset





· C position: Automatic instant reset



As soon as the counter operates and reaches set value, the relay will ON and display continues to count (i.e. the set count number still shown on the display window for 0.1 to 3.5 sec controlled by the TIMER.) After 0.1 to 3.5 sec, the relay will OFF and display return or reset to zero automatically.

When the counter operates and reaches the set count, the relay remains it's ON position. Relay will not OFF excepting the user pressing the RESET button on the front panel or the external Reset terminal (connection method refer to P. 5 and also please read NOTE 5 on page 3).

When the counter operates and reaches the set count, the relay will ON and numbers on the display window will return to zero instantly, relay continues to operate. The relay will OFF after 0.1 to 3.5 sec controlled by the TIMER on the front panel.

