

MODEL 300

PRESET COUNTER

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PRESET COUNTER COMPARATOR



SERIES 300

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The Series 300 totalizes TTL level pulses, compares them against a preset limit and indicates if the total is below or above the set point on single limit units. On dual limit units there is also an additional between the limits indication. Limit indicators are LED dots on the front panel plus TTL logic level outputs and heavy duty relay closures. Count and reset inputs are Schmitt trigger type to reduce the possibility of erroneous counts due to slow rise time or noise spikes on input pulses. Normal operation for the unit is to continue counting once the limit is reached until externally reset, but an auto reset option is available for recycle applications.

SERIES 300 SPECIFICATIONS

Accuracy:
± 1 digit

Input:
TTL compatible pulses for count and reset.
Count input: One count for each positive to negative transition.
Reset input: Unit resets to zero when reset line is pulled to + 5VDC or open.

Dual limit models

323	3 digits per limit
324	4 digits per limit

Single limit models

303	3 digits
304	4 digits
305	5 digits

COMMON SPECIFICATIONS:

Front panel controls:
Dual limit models: 3 or 4 digit 0-9 for each limit.
Single limit models: 3, 4, or 5 digits 0-9.

Visual indicators:
Dual limit models: Red LED dot for "LO", "IN", and "HI".
Single limit models: Red LED dot "LO" and "HI".

Outputs:
Dual limit models: TTL logic level one for outputs "LO", "IN", and "HI", fan out of 4 TTL loads.

Form "C" relay closure for each limit, contact rating 6 amps @ 28VDC, 2.5 amps @ 115VAC resistive, or 1 amp @ 230VAC resistive.

Single limit models: TTL logic level one for outputs "LO", Coincidence, and "HI", fan out of 4 TTL loads. Form "C" relay closure rated a 6 amps @ 28VDC, 2.5 amps @ 115VAC resistive, and 1 amp @ 230VAC resistive.

Switch life: 1,000,000 detents per switch

Operating temperature range: -20° to +60° Celsius.

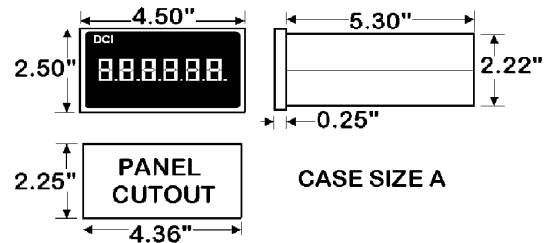
I/O Method: Card Edge Connector with solder tabs.

Power:

115VAC 50-400 hz	5 watts max.	
230VAC 50-400 hz	(optional)	
5VDC 200 mA max		(optional)
10-15VDC 200 mA max	(optional)	
10-30VDC 200 mA max	(optional)	

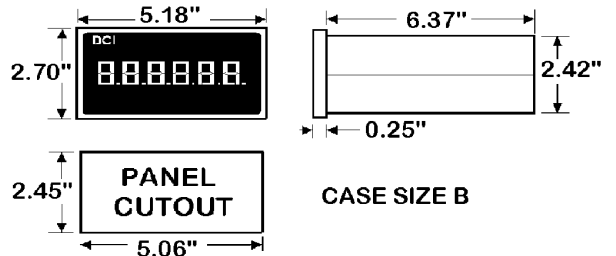
Case size:

Single limit models 304, 304, & 305 = "A"



Case size:

Dual limit models 323 & 324 = "B"



OPTIONS: (All Units)

- 01 Auto reset
- 05 5VDC power
- 10 No internal relays
- 12 10-15VDC power
- 22 230VAC ± 10%, 50-400hz, input power
- 24 10-30VDC input power
- 25 Special legends and/or logo
(Special artwork to be supplied by customer)
- 26 No logo
- 27 Screw terminal I/O connector
- 28 Blank lens
- 04 Less ± switches

PIN OUT MODEL 323 & 324

J1 CONNECTOR

		<u>Pin</u>	<u>Pin</u>		
LSD	4	A	1	4	
1st DIGIT	2	B	2	2	2nd DIGIT
BCD OUT	8	C	3	8	BCD OUT
	1	D	4	1	
	4	E	5	4	
3rd DIGIT	2	F	6	2	4th DIGIT
BCD OUT	8	H	7	8	BCD OUT
	1	J	8	1	
		K	9		
		L	10		
		M	11		
		N	12		
		P	13		RESET
		R	14		COUNT
		S	15		"IN" LOGIC OUT
		T	16		"LO" LOGIC OUT
"HIGH" LOGIC OUT		U	17		N.C. LOW LIMIT RELAY
		V	18		N.O. LOW LIMIT RELAY
		W	19		RELAY COMMON
RELAY HIGH LIMIT N.C.		X	20		+15VDC in (Option 12 only)
RELAY HIGH LIMIT N.O.		Y	21		COMMON
RELAY COMMON		Z	22		+5VDC OUT

115VAC POWER INPUT VIA SCREW TERMINALS

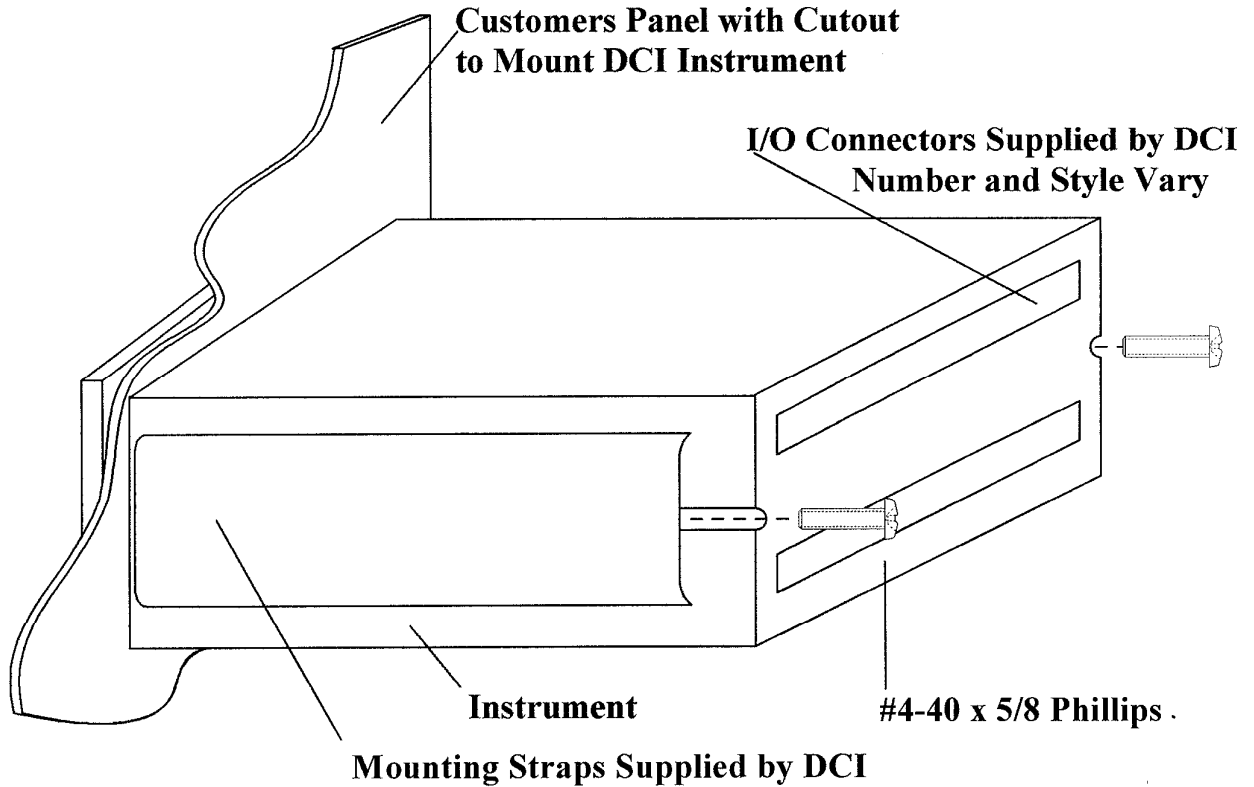
PIN OUT MODEL 303 & 304 & 305

J1 CONNECTOR

		<u>Pin</u>	<u>Pin</u>		
LSD	4	A	1	4	
1st DIGIT	2	B	2	2	2nd DIGIT
BCD IN	8	C	3	8	BCD IN
	1	D	4	1	
	4	E	5	4	
3rd DIGIT	2	F	6	2	4th DIGIT
BCD IN	8	H	7	8	BCD IN
	1	J	8	1	
	4	K	9		
5TH DIGIT	2	L	10		"LOW" LOGIC OUT
BCD IN	8	M	11		"HI" LOGIC OUT
	1	N	12		RESET IN
RELAY	N.C.	P	13		COUNT IN
RELAY	N.O.	R	14		COMMON
RELAY	COMMON	S	15		+5VDC OUT

115VAC POWER INPUT VIA SCREW TERMINALS

MOUNTING



Note: Ground Case per FIGURE 1.0, page 16

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