



**Solid state counter...
housed in 1/8 DIN
molded NORYL® case**



The DZ100 is a solid state counter which uses CMOS integrated circuits for the counting function. Counter output action occurs when the count total, indicated by front mounted thumbwheel switches, is reached. Its features include:

- Housed in 1/8 DIN molded NORYL® case
- Standard isolated double pole - double throw relay output
- Factory assembly options provide "interval" or "delay" output sequences
- All connections made through standard square base relay socket
- Accessories available to convert into panel mounted configuration, including version with plug-in capability

OPERATION

The DZ100 sets to the selected thumbwheel setting when power is applied to terminals A and B. Counts are applied to a count input terminal, and each count is registered on contact opening. When the registered counts equal the setpoint, the output changes state. The output remains in this state as long as line voltage is applied to terminals A and B. The unit resets when line voltage is removed from either terminal A or B.

A count inhibit input is available with the DZ100 series counter. When line voltage is applied to the count inhibit input, from either terminal A or B, incoming count pulses are not counted. The counter remembers count total at the time the inhibit is applied and resumes counting from that point after the inhibit voltage is removed. The count inputs may be applied from either side of the power line.

SPECIFICATIONS

Count Accuracy: 100% accurate for any count setting between 1 and 99

Count Speed: 600 pulses per min.
Pulse must have minimum 40 ms ON and 60 ms OFF

Reset Time: 50 ms

Cycle Progress: Pilot light ON during "COUNT" cycle

Voltage/Frequency:
120 VAC (+10 -15%), 50/60 Hz or 120 VDC (+10 -15%)
240 VAC (+10 -15%), 50/60 HZ or 240 VDC (+10 -15%)

Burden: 120 VAC or DC, 1.9 VA max. relay output
240 VAC or DC, 2.5 VA max. relay output

Output Rating: Relay - 10 amp steady state
Mechanical Lifetime - over 20 million operations
Electrical Lifetime - contingent on load characteristics

Power Interruption: Line voltage interruptions of 16 ms or less will not reset unit

Power On Response: 30 ms max. after application of line voltage to pins A and B

Temperature Range: 32° to 140°F (0° to 60°C)

Transient Voltage Immunity: Performance unaffected by 50 microseconds, 600 V peak transients superimposed on line input

Vibration: Unaffected by 2.5G sinusoidal vibration magnitudes in both directions of three perpendicular mounting axes imposed from 10 to 1000 Hz

Laboratory Testing: UL Recognition E96337
CSA Certification L26861

ORDERING INFORMATION

TYPE		DZ1	0	1	A3	VOLTAGE & FREQUENCY	
Sym.	Description					Sym.	Description
0	Standard					A3	120 VAC, 50/60 Hz or 120 VDC
						B3	240 VAC, 50/60 Hz or 240 VDC

OUTPUT SEQUENCE	
Sym.	Description
0	OOX
1	OXO

ACCESSORIES

Model No.	Description
DZ100-51	Bezel Kit for panel mounting
DZ100-52	Strain Relief Kit
DZ100-54	Plug-In Housing for panel mounting units
DZ100-56	Latch and Latch Release Kit for surface mounting
60SR3BO5	Square Base Relay Socket