Digital Hour Meter & Counter

- Suitable for Hour meter & Counter (Up / Down) application
- Wide Hour meter range from 1 sec to 9999999 hrs
- Wide counter range from 1 to 9999999 counts
- · Prescaling facility for Counter
- Runtime set point change &
 Alarm facility for both Hour meter & Counter
- Configurable NO/NC Relay & MOSFET Output with Over Load detection
- · Retentive & Non-Retentive modes
- 7 Digit LCD with luxurious green backlight & Password Protection
- · Compact size
- · Suitable for panel mounting



Ordering Information

Cat. No. Description

Z2301N0G1FT00 9-30 V DC (with dual MOSFET output)
Z2221N0G2FT00 85-265 V AC/DC (with Relay output)

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Cat. No.			Z2301N0G1FT00			Z2221N0G2FT00	
Paramete	ers						
Supply Voltage (中)			9 - 30 VDC			85 - 265 VAC/DC	
Power Consumption (W)			2 W max.			2 VA / 1W	
Supply Frequency			50 / 60 Hz				
I/P Signa	l Chara	cteristics					
Signal Voltage Range			9 - 30 VDC 85 - 265 VAC & 100 - 265 VDC				
Signal Isolation			2kV				
Output C	haracte	ristics					
Output type			2 MOSFET: 30 VDC/60 mA (Max.) Note: Use isolated input supply			Relay: 1 NO, Contact Rating: 5 A(Res.) @ 250 VAC/30 VDC Contact Material: Ag Alloy	
Function	al Chara	acteristics					
Display			7 digit LCD , 6.5 mm Height, 12 O' Clock, Transmissive				
Number of keys			2 (SET key & RST key)				
Reset fur	oction	Reset type	Terminal	Front	Auto Reset		
i tooot iui	Time (min.)		80 ms	3 Sec	-		
Hour	Accuracy		± 2sec per Day				
Meter Functions Counter Functions	Ranges		Hrs: Min: Sec (999:59:59), Hrs: Min (99999:59), Hrs (9999999), Min (9999999), Sec (9999999)				
	put o.g.ta.		For Hour counting detection, Signal has to be present for min. 3msec & signal has to be absent for min 20ms				
	Accuracy Range		100% 1 to 999999.999				
	Decimal Point Position(max.)						
	` '		4 Digit				
	Input Switching Freq.(max.)		10 Hz for AC and 40 Hz for DC				
		Pulse Width min.	50ms ON/50ms OFF for AC, 12.5ms ON/12.5ms OFF for DC				
Environs		Characteristics	SUITIS CIN/	SUIIIS OFF	IOI AC, 12.5IIIS ON/ I.	2.3IIIS OFF IOI DC	
			- 0.0				
Operating Temperature			-5° C to +55° C				
Storage Temperature			-10° C to +60° C				
Humidity			5 to 95% Rh (Without condensation)				
Maximum Operating Altitude							
Pollution Degree							
Degree of Protection			Front side: IP40; Terminals: IP20, Housing: IP30				
Enclosure material			UL 94 V0 Plastic				
Casing color			Black				
Other Ch		stics	Flueb at the		and and and		
Mounting			Flush mounting on panel cut-out				
Panel Cut-out			22mm X 44.8mm				
Weight (Un-packed)			52 gm				
Operating position			Horizontal				
	Termination wire Sizes			00 44 4144	G, 0.3-2.5 mm		

EMI / EMC

LIVII / LIVIO	
Harmonic Current Emissions	IEC 61000-3-2
Voltage Flicker & Fluctuation	IEC 61000-3-3
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients (Supply)	IEC 61000-4-4
Electrical Fast Transients (Signal)	IEC 61000-4-4
Surge	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Power Frequency Magnetic Field	IEC 61000-4-8
Voltage Dips	IEC 61000-4-29
Conducted Emission	CISPR 11
Radiated Emission	CISPR 11

Safety Compliance: Test Voltage (All terminal to housing) Single fault IEC 60947-5-1 IEC 61010-1 Leakage Current UL 508

Environmental Cold Heat Dry Heat Vibration IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-27 Repetitive Shock Non-Repetitive Shock

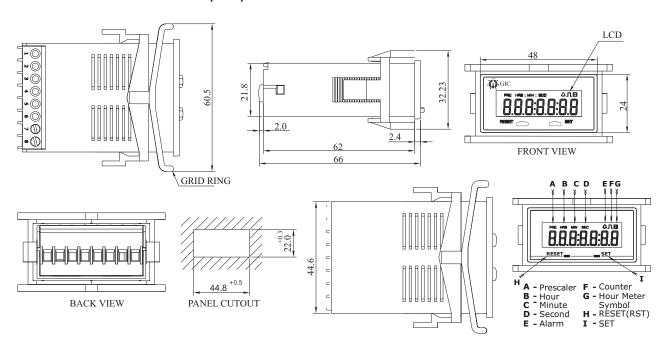
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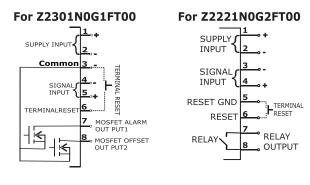
TERMINAL TORQUE & CAPACITY

Ø 3.5 mm	0.40 N.m (3.5 Lb.in)	
	1 x 2.5 mm ² Solid/Stranded Wire	
AWG	22 to 14	

MOUNTING DIMENSIONS (mm)



CONNECTION DIAGRAM



Proximity Switch Connection Diagram:

