

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
- Alarm facility for both Hour meter & Counter
- Relay & MOSFET Output with Over Load detection
- Retentive & Non-Retentive modes
- 7 Digit LCD with luxurious green backlight
- Compact size
- Suitable for panel mounting

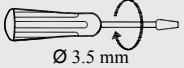


Cat. No.			Z2301N0G1FT00			Z2221N0G2FT00		
Parameters								
Supply Voltage (㉑)			9 - 30 VDC			85 - 265 VAC/DC		
Power Consumption (W)			2 W max.			2 VA / 1W		
Supply Frequency			50 / 60 Hz					
I/P Signal Characteristics								
Signal Voltage Range			9 - 30 VDC			85 - 265 VAC & 100 - 265 VDC		
Signal Isolation			2kV					
Output Characteristics								
Output type			2 MOSFET: 30 VDC/60 mA (Max.) Note: Use isolated input supply			Relay: 1 C/O, Contact Rating: 5 A(Res.) @ 250 VAC/30 VDC Contact Material: Ag Alloy		
Functional Characteristics								
Display			7 digit LCD , 6.5 mm Height, 12 O’ Clock, Transmissive					
Number of keys			2 (SET key & RST key)					
Reset function		Reset type		Terminal	Front	Auto Reset		
		Time (min.)		80 ms	3 Sec	-		
Hour	Accuracy		± 2sec per Day					
Meter	Ranges		Hrs : Min : Sec (999:59:59), Hrs : Min (99999:59), Hrs (9999999), Min (9999999), Sec (9999999)					
Functions	Input Signal		For Hour counting detection, Signal has to be present for min. 3msec & signal has to be absent for min 20msec.					
Counter Functions	Accuracy		100%					
	Range		1 to 9999999.999					
	Decimal Point Position(max.)		3					
	Pre-scaler		4 Digit					
	Input	Switching Freq.(max.)	10 Hz for AC and 40 Hz for DC					
	Signal	Pulse Width min.	50ms ON/50ms OFF for AC, 12.5ms ON/12.5ms OFF for DC					
Environmental Characteristics								
Operating Temperature			-5° C to +55° C					
Storage Temperature			-10° C to +60° C					
Humidity			5 to 95% Rh (Without condensation)					
Maximum Operating Altitude			2000 m					
Pollution Degree			II					
Degree of Protection			Front side: IP40; Terminals: IP20, Housing : IP30					
Enclosure material			UL 94 V0 Plastic					
Casing color			Black					
Other Characteristics								
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			Wire size : 22-14 AWG, 0.3-2.5 mm					
EMI / EMC								
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)			IEC 60947-5-1					
Single fault			IEC 61010-1					
Leakage Current			UL 508					
Environmental								
Cold Heat			IEC 60068-2-1					
Dry Heat			IEC 60068-2-2					
Vibration			IEC 60068-2-6					
Repetitive Shock			IEC 60068-2-27					
Non-Repetitive Shock			IEC 60068-2-27					
ORDERING INFORMATION								
Cat. No.			Description					
Z2301N0G1FT00			9-30 V DC (with dual MOSFET output)					
Z2221N0G2FT00			85-265 V AC/DC (with Relay output)					

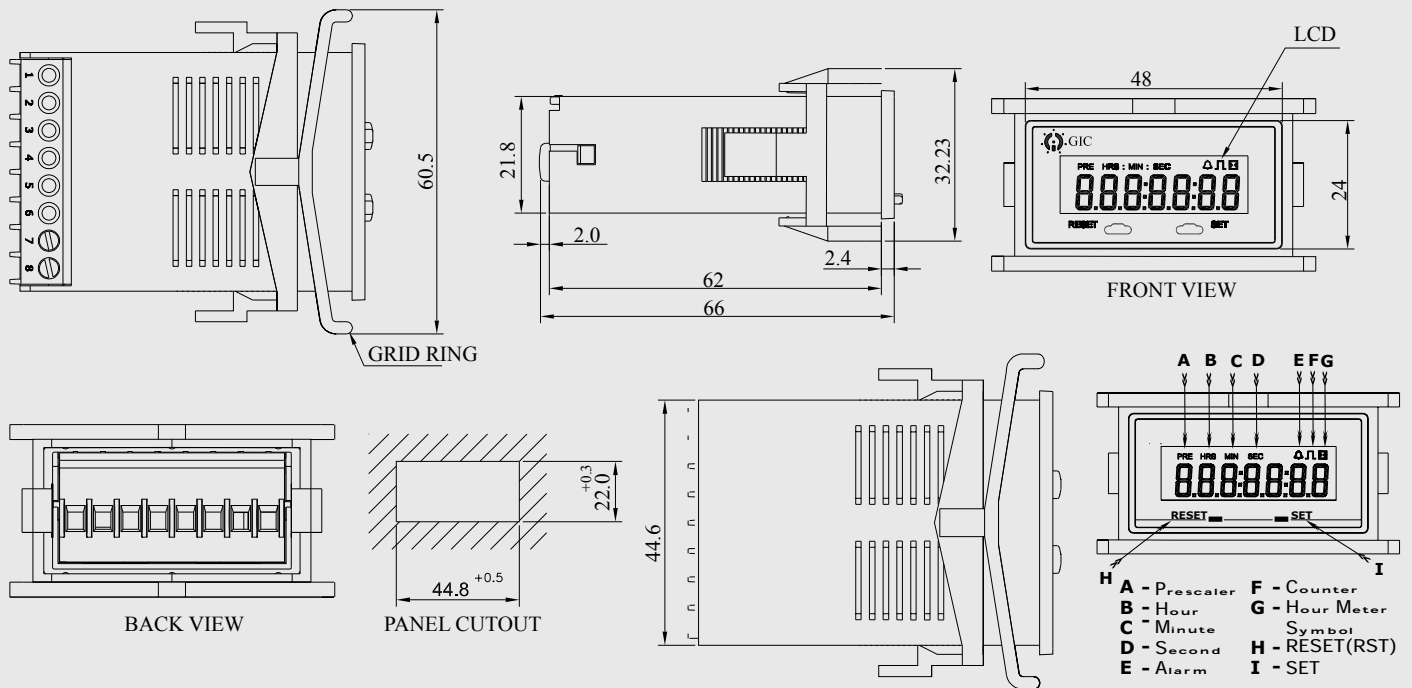
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TERMINAL TORQUE & CAPACITY

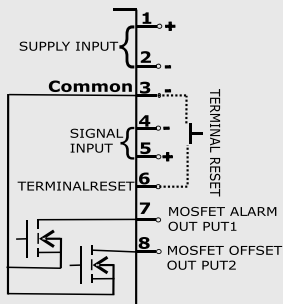
 Ø 3.5 mm	Torque - 0.40 N.m (3.5 Lb.in) Terminal screw - M2.5
	Solid Wire - 1 X 0.3...2.5 mm ²
AWG	22 to 14

MOUNTING DIMENSIONS (mm)

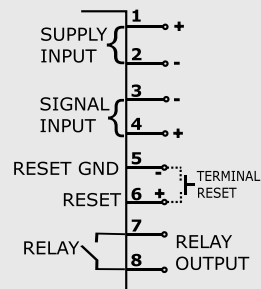


CONNECTION DIAGRAM

For Z2301N0G1FT00



For Z2221N0G2FT00



Proximity Switch Connection Diagram:

