

# Hour Meter Series HM36

- Robust design with high degree of Accuracy and Compact size
- Frequency independent for AC applications
- Indicates operating time in hours and tenths with running indicators
- Totally sealed from Dust and Moisture
- Panel mountable with 7 Bezel options
- 6 Digit Non-Resettable with automatic recycle to zero
- Wide supply voltage range: 4 - 30V AC/DC, 10 - 80V DC & 90 - 264V AC
- Shock & Vibration Proof



## Ordering Information

Cat. No.	Description
LA21F1	90 - 264 VAC, Rectangular Bezel
LA22F1	90 - 264 VAC, Rectangular 2 holes Bezel
LA23F1	90 - 264 VAC, Round Bezel
LA24F1	90 - 264 VAC, Round 3 holes Bezel
LA25F1	90 - 264 VAC, Square Mount Bezel
LA26F1	90 - 264 VAC, Cup Mount Bezel
LA27F1	90 - 264 VAC, Stirrup Mount Bezel
LD11F1	10 - 80 VDC, Rectangular Bezel
LD12F1	10 - 80 VDC, Rectangular 2 holes Bezel
LD13F1	10 - 80 VDC, Round Bezel
LD14F1	10 - 80 VDC, Round 3 holes Bezel
LD15F1	10 - 80 VDC, Cup Mount Bezel
LD16F1	10 - 80 VDC, Stirrup Mount Bezel
LD17F1	10 - 80 VDC, Square Mount Bezel
LC31F1	4 - 30 VAC/DC, Rectangular Bezel
LC32F1	4 - 30 VAC/DC, Rectangular 2 holes Bezel
LC33F1	4 - 30 VAC/DC, Round Bezel
LC34F1	4 - 30 VAC/DC, Round 3 holes Bezel
LC35F1	4 - 30 VAC/DC, Cup Mount Bezel
LC36F1	4 - 30 VAC/DC, Stirrup Mount Bezel
LC37F1	4 - 30 VAC/DC, Square Mount Bezel

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Cat. No.	LA25F1	LD15F1	LC36F1
<b>Parameters</b>			
Supply Voltage (±)	90 - 264 VAC	10 - 80 VDC	4 - 30 VAC/DC
Frequency	50/60 Hz	N A	50/60 Hz
Over Voltage & Reverse Polarity Protection	N A	Protected for 2 times Battery voltage and / or Reverse polarity	Not applicable to AC and 48V for DC Application
Power Consumption (Max.)	0.5 VA	0.25 VA	1 VA
Bezel	Square Mount	Cup Mount	Stirrup Mount
Register	6 Digit (3.6mm)		
Read Out	99999.9		
Least Count	1/10 h		
Accuracy	± 0.02% over entire range		
Vibration	10-80Hz with 20g max (SAE J1378)		
Shock	55g @ 9-13ms (SAE J1378)		
Weight (unpacked)	47g		
Temperature	-40° C to +85° C		
Humidity (Non Condensing)	95% (Rh)		
Mounting	Panel		
Termination	¼" [6.3] Spade Terminal		
Degree of Protection	IP 66		
Approvals	SAE & NEMA 4X		SAE & NEMA 4X

## VIEWS OF DIFFERENT BEZELS



Rectangular Bezel



Rectangular 2 holes Bezel



Round Bezel



Round 3 holes Bezel



Cup Mount Bezel



Stirrup Mount Bezel

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- Robust design with high degree of Accuracy and Compact size
- Frequency independent for AC applications
- Indicates operating time in hours and tenths with running indicators
- Totally sealed from Dust and Moisture
- 6 Digit Non-Resettable with automatic recycle to zero
- Wide supply voltage range: 90 - 460V AC, 10 - 80V DC & 110 V DC
- Suitable for Control Panel applications



## Ordering Information

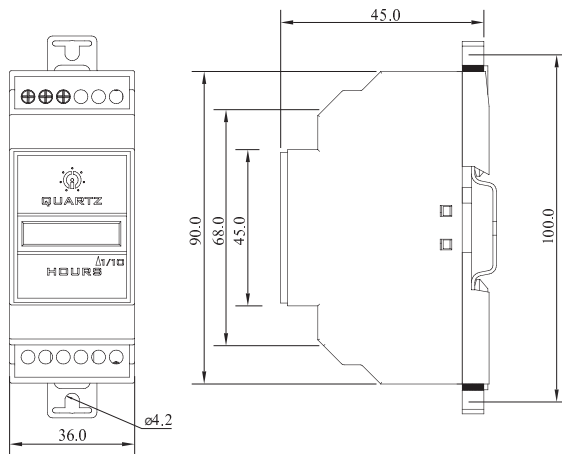
Cat. No.	Description
30A6B1	90 - 264 / 270 - 460 V AC, Hour Meter, Base/DIN
30A7B1	48 V AC, Hour Meter, Base/DIN
30D1B1	10 - 80 V DC, Hour Meter, Base/DIN
30D4B1	110 VDC, Hour Meter, Base/DIN

# Hour Meter Series HM36



Cat. No.	30A6B1	30D1B1	30D4B1
<b>Parameters</b>			
Supply Voltage (φ)	90 - 264 / 270 - 460 VAC	10 - 80 VDC	110 VAC
Frequency	50/60 Hz	N A	N A
Over Voltage	N A	96 VDC, 1 min	96 VDC, 1 min
Reverse Polarity Protection	N A	Yes	Yes
Power Consumption (Max.)	1 VA Max	0.25 VA	0.5 VA
Register	6 Digit (3.6mm)		
Read Out	99999.9		
Least Count	1/10 h		
Accuracy	± 0.02% over entire range		
Vibration	10-80Hz with 20g max (SAE J1378)		
Shock	55g @ 9-13ms (SAE J1378)		
Weight (unpacked)	70g		
Operating Temperature	-5° C to +55° C		
Storage Temperature	-20° C to +70° C		
Humidity (Non Condensing)	95% (Rh)		
Mounting	Base/DIN Rail		
Termination	¼" [6.3] Spade Terminal		
Degree of Protection	IP 20 for Terminals, IP 40 for Enclosure		
Approvals			

## MOUNTING DIMENSIONS (mm)

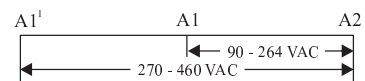


30A6B1, 30A7B1, 30D1B1, 30D4B1

## TERMINAL TORQUE & CAPACITY

 Ø 3.5...4.0 mm	Torque - 0.54 N.m (5 Lb.in) Terminal screw - M2.6
	Solid Wire - 1 X 0.2...3.3 mm <sup>2</sup>
AWG	1 X 24 to 12

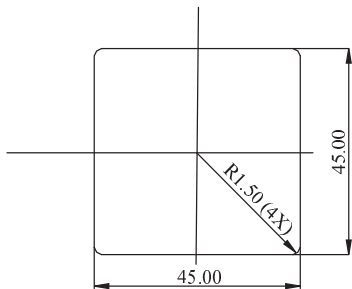
## CONNECTION DIAGRAM



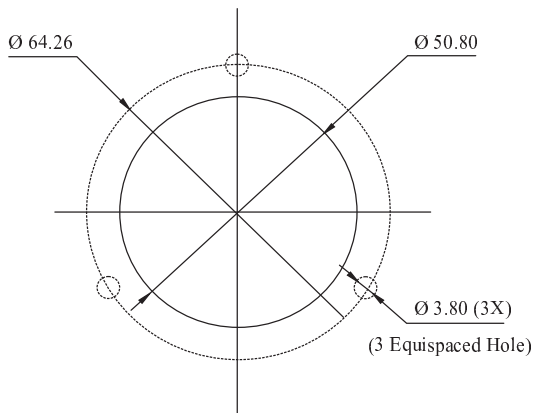
# Hour Meter Series HM36

## MOUNTING DIMENSION (mm)

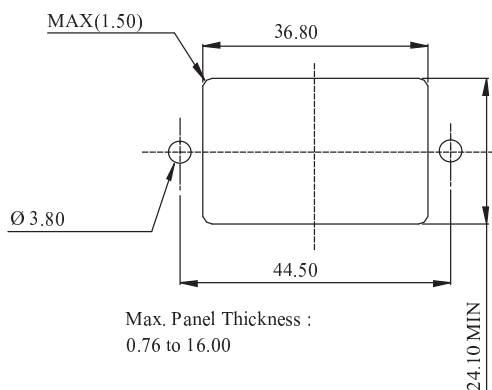
### SQUARE MOUNT BEZEL (45 X 45 PANEL CUTOUT)



### ROUND BEZEL, ROUND 3 HOLES BEZEL, CUP MOUNT BEZEL & STIRRUP MOUNT BEZEL

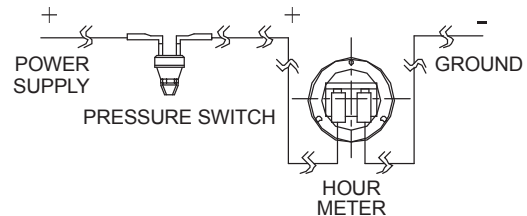
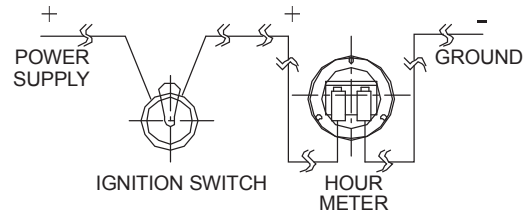


### RECTANGULAR BEZEL

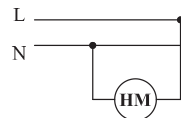


## CONNECTION DIAGRAM

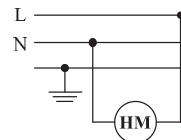
### FOR: DC SERIES



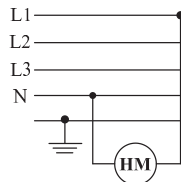
### FOR: AC SERIES



Single phase, 2 wire, 120/240 V system:  
Connect power wire to one terminal and neutral wire to opposite terminal.



Single phase, 3 wire, 120/240 V system:  
Connect any one power wire to one terminal and neutral wire to opposite terminal.



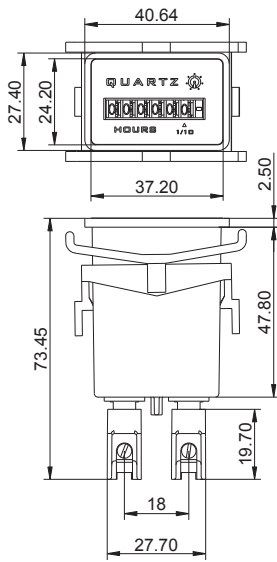
Three phase, 4 wire, 120/240 V system:  
Connect any one power wire to one terminal and neutral wire to opposite terminal.

### CAUTION

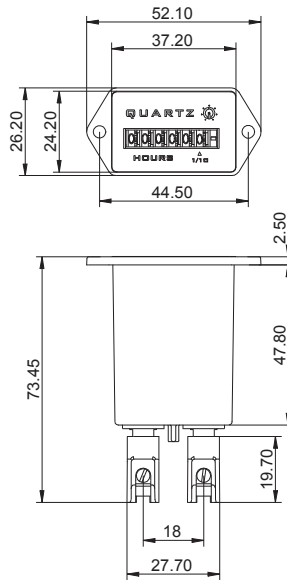
Tighten terminals with flat head screwdriver with tip size 4.3 x 0.6 mm.

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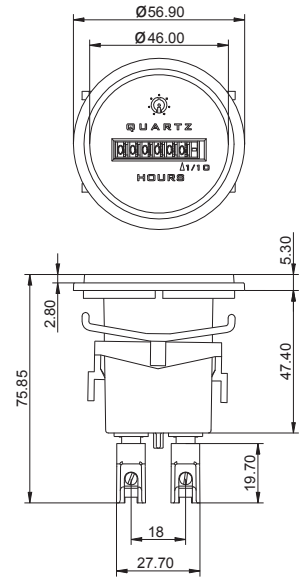
## VIEWS OF DIFFERENT BEZELS



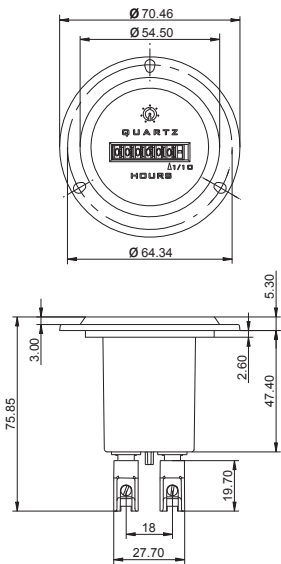
Rectangular Bezel



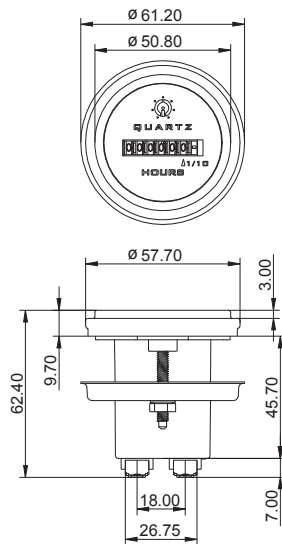
Rectangular 2 holes Bezel



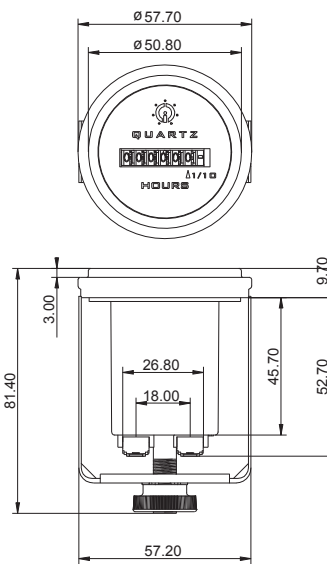
Round Bezel



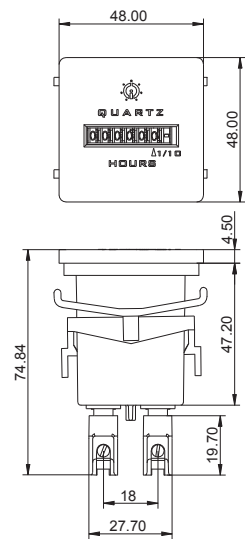
Round 3 holes Bezel



Cup Mount Bezel



Stirrup Mount Bezel



Square Bezel

Dimensions in mm