

TACHOMETER

AC-962A, 963A

*Input frequency 0.1Hz~20kHz



AC-963A

■ Specifications

Display: 6 Digit
 Display Range: 0.0001~999999
 Display: LED 14.2mm (Red) AC-962A
 10mm (Red) AC-963A
 8mm (Green) AC-963A
 Zero Display: Leading Zero Display
 Decimal Point: Any setting 0.0, 0.00, 0.000, 0.0000
 Measuring Time Standard: Crystal Oscillator(2MHz)
 Measuring System: Reciprocal Counting System
 Sampling Time: 0.5~9 second(Automatically setting by input pulse)
 Display Renewal Time: By Sampling or set 1~99sec
 Input Signal: NPN open collector, or non-voltage contact
 Input Voltage Level: H3.5V~30V
 L 0V~1.9V
 Magnetic sensor($\pm 0.6V \sim \pm 17V$)
 Input Frequency: 0.1Hz~20kHz
 Min.Pulse width: 25 μ sec. Duty 50%
 Input Impedance: For open collector input 6k Ω
 For Magnetic sensor input 3k Ω
 Accuracy: $\pm 0.008\%$ rdg ± 1 digit
 (PS=1.0000, PPR=1)
 Pre-Scaling: P.S(Pre-scaling)0.0001~100
 P.P.R 1/1~1/9999(set by front sheet switch)
 Hold: Hold terminal and COM Shorted
 Reset: Internal solder jumper Shorted
 Overflow: Display(-----)When exceed max, input
 Memory: E2PROM
 Sensor power supply: DC12V $\pm 10\%$, 100mA(MAX.)but 50mA(MAX.)for AC-96□A -3
 Applicable Detectors: Rotary Encoder, Proximity switch, photo-Electric switch, Magnetic sensor
 Out put: ①BCD Parallel open collector
 ②Analog
 Voltage 0.1~10V 1k Ω or more
 Current 4.16~20mA 500 Ω or less
 Operating Temperature:0~50°C 45~85%RH
 Power Supply: AC90~264V (50/60Hz)
 Power Consumption: 5VA
 Dimensions: 48(H) \times 96(W) \times 130(D)mm DIN Size
 Weight: 450g
 Dielectric Strength: Between power supply terminal and external terminal AC200V/min
 Insulation Resistance: 100M Ω DC500V the above terminals

■ Comparing Section(AC-963A)

Control System: Microcomputer
 Setting Range: 0~999999 (HI and Lo)
 Setting Method: Front sheet switch
 Comparing Conditions: HI output
 HI SET>Measured Value \rightarrow NC and COM short
 HI Set \leq Measured Value \rightarrow NO and COM short
 LO Output
 LO SET<Measured Value \rightarrow NC and COM short
 LO Set \geq Measured Value \rightarrow NO and COM short
 Comparing Relay Contact Output:HI, LO transfer contact
 AC250V 0.5A resistive load
 DC30V 2A resistive load

■ Features

- Input Frequency 0.1Hz~20kHz
- Reciprocal Counting System
- Accuracy $\pm 0.008\%$ rdg ± 1 digit
- E²PROM Memory
- Sensor Power DC12V 100mA
- Power Supply AC90~264V
- Analog, BCD open collector(option)
- HI, LO Setpoint(AC-963A)

■ Analog Output(F/V Method)

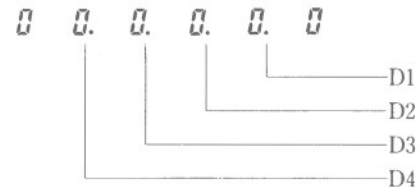
Voltage: 0.1~10V 1k Ω or more
 Current: 4.16~20mA 500 Ω or less
 (Can't use both)
 Accuracy: $\pm 0.5\%$ F.S
 Ripple: 20mVp-p or less

Frequency Range	Voltage Output	Current Output
20Hz~200Hz	1~10V	5.6~20mA
20Hz~2kHz	0.1~10V	4.16~20mA
200Hz~20kHz	0.1~10V	4.16~20mA

(change by internal switch)

■ BCD Output

Data: Parallel Open Collector negative Logic
 Number of Data: 30 bit
 (1-2-4-8) \times 6digit+Decimal(4bit)+PC+OVF
 Output Timing: PC output 5msec~20msec
 PC output time: 2msec $\pm 30\%$
 OVF output: Exceed 6digit, OVF output active ON
 Output Rating: DC30V, 20mA(Max)
 Decimal Point: Output saturation voltage:0.75V(TYP) 20mA
 Open Collector output for D1~D4



Sales, Service, Technical support
Topac Inc.

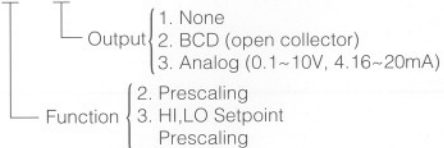
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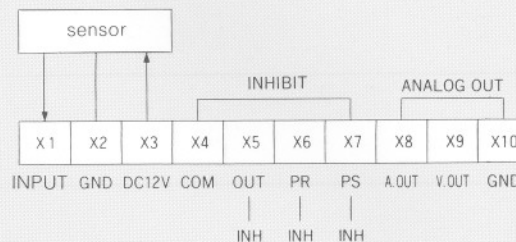
Ordering code

AC-96□A-□

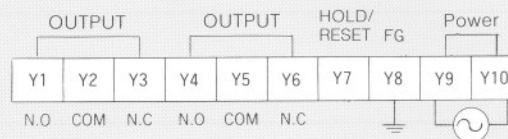


Connection Diagram (For AC-963A)

Upper

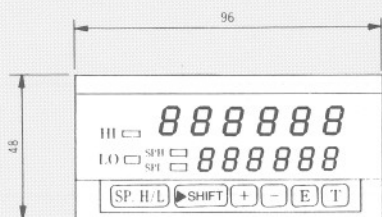


Lower

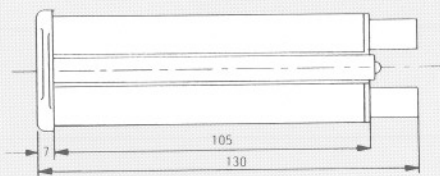


Dimensions

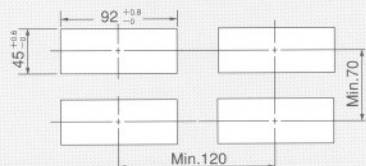
Front



Side

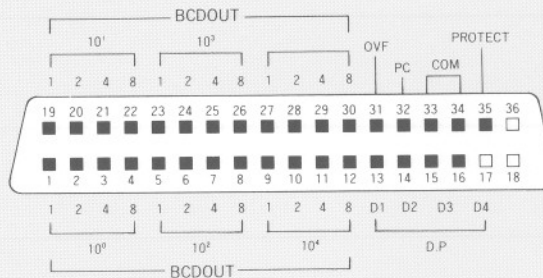


Panel Cutout



Panel thickness 0.8 to 5.0mm

BCD output



Counter Tachometer

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