ANLY TIMER

H3D-M MULTI-FUNCTION ANALOGUE TIMER

Stocked and distributed by Ingram Products Inc, Jacksonville, FL
www.ingramproducts.com

CHARACTERISTICS :

- Wide operating voltage range, AC/DC 12V~240V
- 7 output modes :
  On-delay
  Control contact OFF-delay
  Interval
  Trailing edge interval
  Flasher starting with ON
  Flasher starting with OFF
  Single shot
- 7 time range, from 1 second to 100 hour
- 17.5 mm thin body design
- UL, C-UL recognized and CE certified

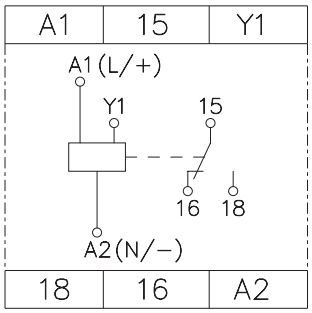
SPECIFICATION :

Operating voltage	AC/DC(V): 12~240
Allowable operating voltage range	90~110% of rated operating voltage
Rated frequency	50 / 60 Hz
Contact rating	250VAC 8A (resistive load)
Reset time	MAX 0.1s
Power consumption	Approx. 1.9VA
Life	Mechanical: 5,000,000 times Electrical: 100,000 times
Ambient temperature	-10 ~ +50°C
Ambient humidity	MAX 85%RH
Weight	Approximatly 62g

TYPE SELECTION :

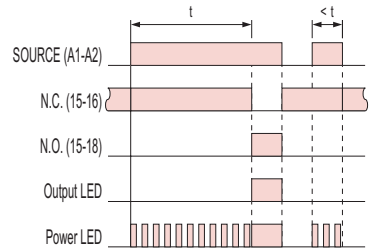
Type	H3D-M
Time range	1s / 10s / 100s / 10m / 100m / 10h / 100h
Output contact	1C
Output mode	7 Mode

CONNECTION :

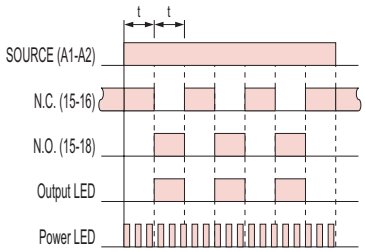


TIMING CHART :

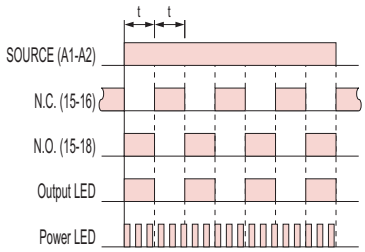
Mode A: On-delay,



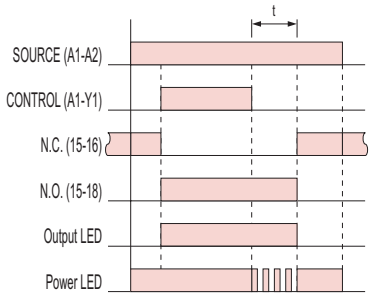
Mode B: Flasher starting with OFF,



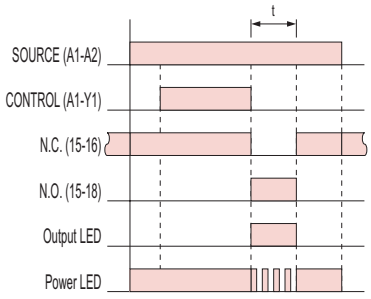
Mode B2: Flasher starting with ON,



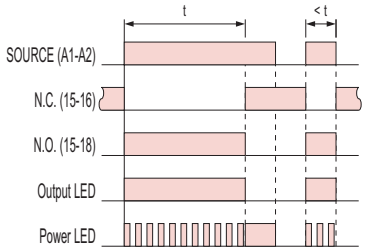
Mode D: Control contact OFF-delay,



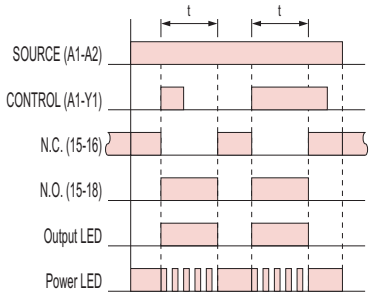
Mode D1: Trailing edge interval, 1



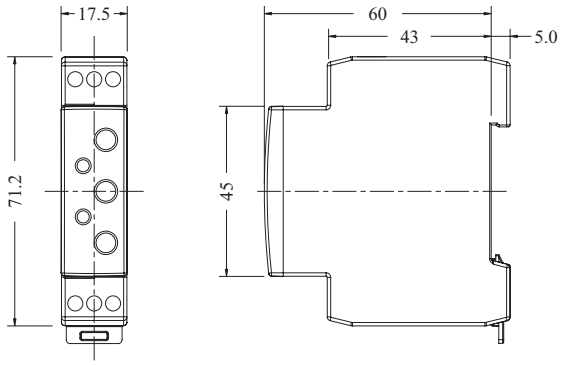
Mode E: Interval, 1



Mode J1: Single shot, 1



DIMENSIONS : (mm)



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H3D-M

MULTI-FUNCTION ANALOGUE TIMER

User's Manual

RESTRICTIONS ON USE

When using this product in applications that require particular safety or when using this product in important facilities, please pay attention to the safety of the overall system and equipment. Install fail-safe mechanisms, perform redundancy checks and periodic inspections and adopt other appropriate safety measures when it is necessary. This product is rated at Class Ⅱ □.

SAFETY PRECAUTION This manual uses the following symbols to ensure safe operation of this timer.

⚠ **WARNING** Warnings are indicated when mishandling this product might result in death or serious injury to user.

⚠ **CAUTION** Cautions are indicated when mishandling this product might result in minor injury to the user, or only physical damage to the timer.

⚠ WARNING

- Note this incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.
- Before wiring, or removing / mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock.
- Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.
- Do not disassemble the product. Doing so might cause electric shock or faulty operation.

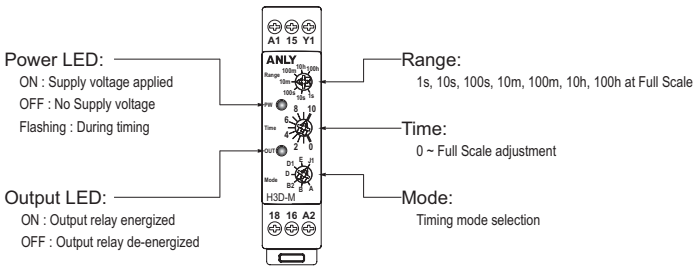
⚠ CAUTION

- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere and etc.). Failure to do so might cause fire or faulty operation.
- Firmly tighten the wires to the terminal. Insufficient tightening of the wires to the socket might cause fire.

SPECIFICATIONS

Operating voltage	AC/DC : 12～240V
Allowable operating voltage range	90 ~ 110% of rated operating voltage
Rated frequency	50 / 60Hz
Contact rating	250VAC 8A (Resistive load)
Reset time	MAX 0.1s
Power consumption	Approx. 1.9VA
Life	Mechanical : 5,000,000 times / Electrical : 100,000 times
Ambient temperature	-10～+50°C
Ambient humidity	MAX 85% RH
Weight	Approximatly 62g

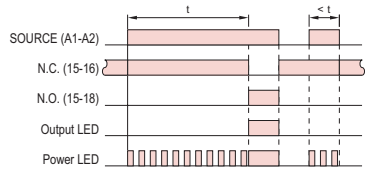
FACEPLATE



TIMING CHART

Mode A: On-delay, ⊠

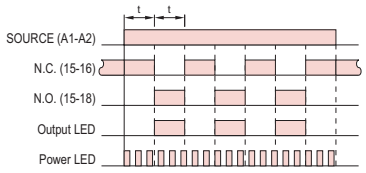
Timing starts when supply voltage is applied to A1-A2. When the timing completes, the output relay energizes. Interrupting supply voltage resets the timing.



*The control contact A1-Y1 is without function in this mode.

Mode B: Flasher starting with OFF, ⊓▤

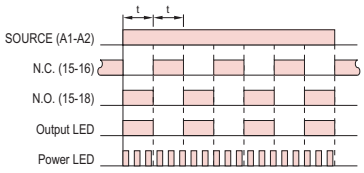
Timing starts when supply voltage is applied to A1-A2. The timing cycle starts with an OFF time, then changes to ON time of equal length and continues the OFF-ON cycle until the supply voltage is interrupted.



*The control contact A1-Y1 is without function in this mode.

Mode B2: Flasher starting with ON, ⊓⊠

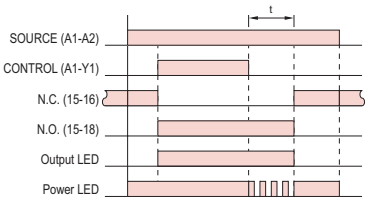
Timing starts when supply voltage is applied to A1-A2. The timing cycle starts with an ON time, then changes to OFF time of equal length and continues the ON-OFF cycle until the supply voltage is interrupted.



*The control contact A1-Y1 is without function in this mode.

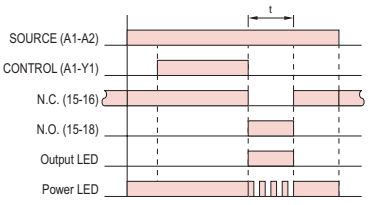
Mode D: Control contact OFF-delay, ▤

With supply voltage applied at A1-A2, when the control contact A1-Y1 is held closed, the output relay energizes. When the contact is opened, the timing starts. When the timing completes, the output relay de-energizes. Closing A1-Y1 during timing resets the timing.



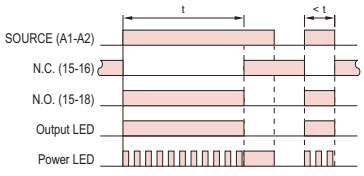
Mode D1: Trailing edge interval, 1⊓▤

With supply voltage applied at A1-A2, when the control contact A1-Y1 is opened, the timing starts and the output relay energizes. When the timing completes, the output relay de-energizes. Closing A1-Y1 during timing de-energizes the output relay and resets the timing.



Mode E: Interval, 1⊓⊠

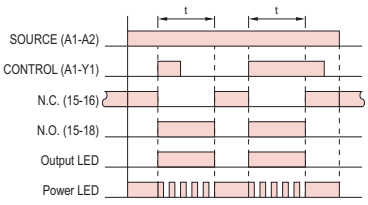
Timing starts and the output relay energizes when supply voltage is applied to A1-A2. When the timing completes, the output relay de-energizes. Interrupting supply voltage resets the timing.



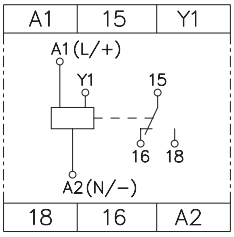
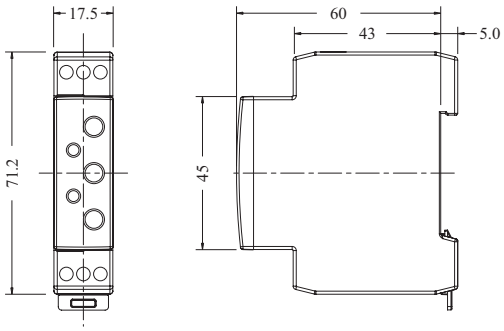
*The control contact A1-Y1 is without function in this mode.

Mode J1: Single shot, 1⊓

With supply voltage applied at A1-A2, timing starts by closing control contact A1-Y1 and output relay energizes during the timing. When the timing completes, the output relay de-energizes. After completion, closing A1-Y1 restarts timing. Operating A1-Y1 during timing or holding it closed has no effect.



CONNECTION



DIMENSION(mm)