TECHNICAL SPECIFICATIONS		
CAT.No.		7954
SUPPLY CHARACTERISTICS		
Nominal Supply (➪)		24 - 240 VAC / DC (50 to 60 Hz, ± 2 Hz)
Limits		-15 % to +10 % of ф
Power Consumption (Max.)		0.5 VA (@ 24/48 VAC), 4VA (@ 110 to 265 VAC/DC)
RELAY OUTPUT CHARACTERISTICS		
Contact Arrangement		1 C/O (SPDT)
Contact Rating		8A (Resistive) @ 240 VAC / 24 VDC
Contact Material		AgSnO ₂
Mechanical Life Expectancy		2 x 10 ⁷
Electrical Life Expectancy		1 x 10 ⁵
Switching Frequency (Max.)		1800 Operations / hr. @ rated load
Status Indication on panel		Red LED - Relay ON
FEATURE CHARACTERISTICS		
Modes Available		1. ON Delay 骨)2. Cyclic OFF/ON (Sym, Asym) (b) 3. Cyclic ON/OFF(Sym, Asym) (f) 4. Signal ON/OFF (d) 5. Signal Off Delay (f) 6. Interval (f) 7. Signal OFF/ON (旨) 8. One Shot Output (用)
Timing Ranges		h:m m:s hr min sec 9:59 999 999 999 99.9 99.9 99.9
Signal Sensing Time		20 ms Max. (DC High), 40 ms Max. (AC High), 100 ms Max. (Low)
Signal Impedance		300 k
Repeat Accuracy		± 0.5% of selected range
Repeat Accuracy	IAC 15	
Utilization Category	AC-15	Rated Voltage (Ue): 125/240 V, Rated Current (Ie): 3/1.5 A
	DC-13	Rated Voltage (Ue): 125/250 V, Rated Current (Ie): 0.22/0.1 A
Dimension (W X H X D) (in mm)		17.5 x 89 x 76
Weight		85 g (unpacked)
Variation in timing due to voltage change		± 0.2 %
		± 1 %
Operating Temperature		-10° C to + 55° C
Storage Temperature		-20° C to + 65° C
Humidity (Non - Condensing)		93 % Rh
		Base / DIN-Rail (35 mm Sym.)
Terminal capacity		1.5 mm² (Pin type lugs)
		1.5 Hill (riii type lugs)
EMI/EMC		
Harmonic Current Emissions		IEC 61000-3-2 Ed. 3.2 (2009-04) Class A
ESD		IEC 61000-4-2 Ed. 2.0 (2008-12) Level II
Radiated Susceptibility		IEC 61000-4-3 Ed. 3.2 (2010-04) Level III
Electrical Fast Transient		IEC 61000-4-4 Ed. 3.0 (2012-04) Level IV
Surge		IEC 61000-4-5 Ed. 2.0 (2005-11) Level IV
Conducted Susceptibility		IEC 61000-4-6 Ed. 3.0 (2008-10) Level III
Voltage Dips & Interruptions(AC)		IEC 61000-4-11 Ed. 2.0 (2004-03)
Voltage Dips & Interruptions(DC)		IEC 61000-4-29 Ed. 1.0 (2000-08)
Conducted Emission		CISPR 14-1 Ed. 5.2 (2011-11) Class B
Radiated Emission		CISPR 14-1 Ed. 5.2 (2011-11) Class B
Safety		
		IEC 60947-5-1 Ed. 3.0 (2003-11) 2 kV
Impulse Voltage Between I/P & O/P		IEC 60947-5-1 Ed. 3.0 (2003-11) Level IV
Single Fault		IEC 61010-1 Ed. 3.0 (2010-06) Level IV
Insulation Resistance		UL 508 >50 kΩ
Leakage Current		UL 508 <3.5 mA
Degree of Protection		IP 20 for Terminal; IP-40 for Housing
Pollution Degree		II
Type of Insulation		Reinforced
Environmental		
		IEC 60068-2-1 Ed. 6.0 (2007-03)
Dry Heat		IEC 60068-2-1 Ed. 6.0 (2007-03)
_ ·		IEC 60068-2-6 Ed. 7.0 (2007-07)
Repetitive Shock		IEC 60068-2-27 Ed. 4.0 (2008-02) 40q, 6ms
Non-repetitive Shock		IEC 60068-2-27 Ed. 4.0 (2008-02) 40g, 6ffs IEC 60068-2-27 Ed. 4.0 (2008-02) 30g, 15ms
Tron repeditive Shock		1LC 00000 2 27 Lu. 4.0 (2000-02) 309, 13115



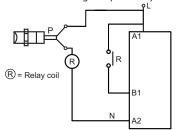
7954Digital Timer - 8 Functions

(€ RoHS

▲ CAUTIONS:

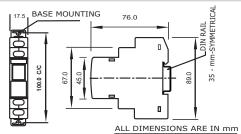
1.Always follow instructions stated in this product. 2.Before installation, check to ensure that the specifications agree with the intended application. 3.Installation to be done by skilled electrician. 4.Automation & Control devices must be properly installed so that they are protected against any risk of involuntary actuations.

5.Using of AC 2 wire Type Proximity Sensor: Please add input relay to prevent false signal sensing due to current leakage of proximity sensor as below.

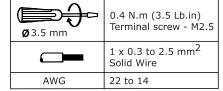


Use relay coil Voltage of the same Voltage using for Proximity sensor. [Relay coil current should not exceed the maximum current Specified by Proximity sensor.]

OVERALL DIMENSIONS:



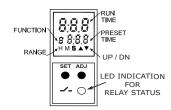
TERMINAL DETAILS:



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FEATURES:

- Available with 8 functions
- Wide operating voltage: 24 to 240 VAC / DC
- Multi Range: 0.1 s to 999 h
- Up/Down counting modes
- 3Digit LCD for preset Timer and Run Time
- Clear LED indication of Relay status
- Key lock Function
- Conforms to EMI/EMC as per IEC standards
- Compact size (17.5 mm single width module)



- 1.PRESET TIME :The Timer Duration selected by the user.
- 2.RUN TIME: In Down counting (*) mode it indicates the remaining while in Up counting (*) mode it indicates the elapsed time.
- 3.Up/Down (▲▼) blinks during the .Timer Duration(T).

THE KEYS:

KEY OPERATION RESULT

SET

Apply Power & Hold Program Mode the key for >3 sec.

OR

Press both >3 sec program after power on



Press in program mode



Press in program mode Edit blinking parameter



Press for>3 sec. During Timer operation Reset Timer



Press for>3 sec. during Timer operation Select, Edit parameter Lock/Unlock Preset Time



Press during timer operation Edit Preset Time during Timer operation

PROGRAMMING INSTRUCTIONS:

Apply power & hold the SET key for >3 sec.OR press both ADJ & SET key for >3 sec.After power ON.Now follow the steps given below



DISPLAY

нм 🔻

RESULT

Press ADJ Key to select desired function (e.g F)





Confirms function then range indicator blinks





Press ADJ Key to select range (e,g.HM range 'HM')



Confirms range selection. 1st digit of preset time blinks. (For modes 'B' & 'C' two preset times 'on' & 'off' to be set)



F 8:39

Press ADJ key to adjust desired preset time digit (e.g. from 5 to 8)



Press Set to confirm 1st digit selection now 2nd digit blinks



Change with ADJ Key (e, g, from3 to 0)



F 8:09

Confirms 2nd digit selection ,now 3rd digit of preset Timeb links.



F 8:06

Change with ADJ Key (e, g, from9 to 6)



F 8:06

Now UP/DOWN Indicator blinks



Change with ADJ Key (e, g,from DOWN to UP)



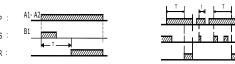
00.0 F 8:06

F 8:06

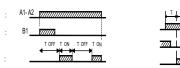
Confirms counting mode . Program Over. Timer starts working normally.

TIMING DIAGRAMS:

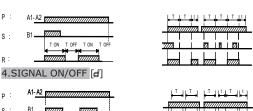
1.ON DELAY [斜]



2.CYCLIC OFF/ ON {OFF START (Sym,Asym)} [b]

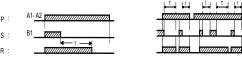


3.CYCLIC ON/OFF {ON START (Sym, Asym)} [[



T: PRESET TIME T: PERIOD < T

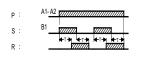
5.SIGNAL OFF DELAY [€]



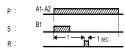
6.INTERVAL [₽]



7.SIGNAL OFF/ON [🔓]



8. ONE SHOT OUTPUT [卅]



T : PRESET TIME T : PERIOD < T

P: POWERS: SIGNAL R: RELAY

P: POWERS: SIGNAL R: RELAY

FUNCTIONAL DESCRIPTION:

1.ON DELAY [角]

The Timer starts when both power (p) and signal (s) are applied .The relay is energized at the end of preset Timer (T) and remains on till power is removed.

2.CYCLIC OFF/ ON {OFF START (Sym,Asym)} [b]

T-ON and T-OFF can be same or different .The relay keeps on changing its status till the power is removed.

3.CYCLIC ON/OFF {ON START (Sym, Asym)} [[]

This function is quite similar to the function but Initially he relay is ON for period T-ON after the power is applied.

4.SIGNAL ON/OFF [₫]

The output relay is turned ON for preset Time (T) When ever the signal (S) is applied or removed .(Refer Note :2)

5.SIGNAL OFF DELAY [£]

Output relay become on when signal (S) is applied. The Timer duration (S) is removed .At the end of timer Duration (T) the output relay goes OFF. Signal (S) ,if Applied during the timer duration (S) will re-trigger The timer and the total duration will be extended.

6.INTERVAL [#]

When Signal (S) is applied ,The Timer Starts and the Output trelay is energized .The output relay be comes OFF at the end of timer duration (T).

7.SIGNAL OFF/ON [5]

When Signal (s) is applied or removed ,The relay changes . Its state after timer duration (T) (Refer Nots : 2)

8.ONE SHOT OUTPUT [#]

When Signal (s) is applied ,the timer duration (T) Starts. At the end of Timer duration (T), the relay gets energized for approximately 1 sec.(Refer Note:2)

1.For power -on operation the terminal B1 and A1 must.

2.In case of all modes except mode G a change in Signal (s) status during the Timing Duration (T),does

re-triggers timing.

3.Output de-energises when device enters PROGRAM MODE and starts new cycle after coming out of.

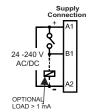
not affect output status but resets timing and

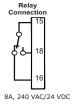
PROGRAM MODE.

4.Loads which have current requirement 1mA,con only be used as Optional Load . For e.g. Contactor coil

CONNECTIONS:

,AC Relay Coil, etc,





Note:

Product innovation being a continuous process. We reserve the right to alter specification without any prior notice.

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