

## FEATURES

- 13 Timing Modes – broader than most DIN rail timers in this class.
- Universal Voltage (12–240V AC/DC) – simplifies inventory and sourcing.
- Front Dial Interface – no DIP switches or programming needed.
- Compact DIN Rail Mount – 17.5 mm slim profile saves panel space.
- Industrial Certifications – CE and UL listed for trusted reliability.
- 10 timing ranges Seconds/Minutes/Hours for a max up to 30 hours



## 600XU-A-1-CU

### Analog Multifunction Timer

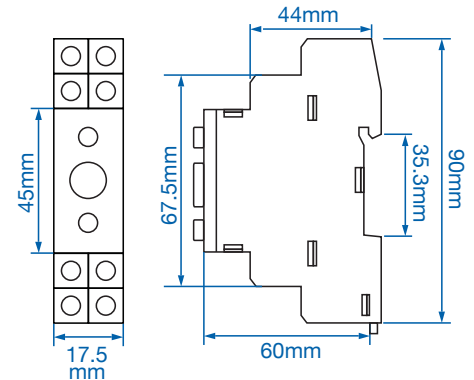
### 17.5mm DIN Rail



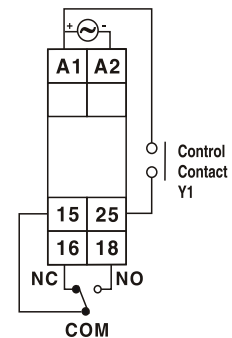
## CAT. NO.

<b>Display</b>	
Display Type	Analog Timer
Digits	N/A
LED Indication	LED 1: Power On, LED 2: Relay On
<b>Supply Specification</b>	
Input Voltage	20-240V AC (50/60Hz) and 12-240V DC
<b>Input Specification</b>	
Reset	Reset time <100m sec
<b>Output Specification</b>	
Main Output	SPDT -1C/O - NO/5A, NC/3A@250V AC
<b>Functional Specification</b>	
Modes	On delay / Interval / Cyclic equal OFF first / Cyclic equal ON first / Pulse output, 500m sec fixed / Delay on break / Delay on make / Delay on break / Interval after break / Single shot / Retriggerable single shot / Latching relay / Delay with totalize / Interval with totalize
Time Ranges	0.1 - 1 sec / 0.3 - 3 sec / 1 - 10 sec / 3 - 30 sec 0.1 - 1 min / 0.3 - 3min / 1 -10min / 3 - 30min 0.1 - 1hr / 0.3 - 3hr
Power Consumption	3.2VA max
<b>Accuracy</b>	
Timer	Setting +/-5% of Full Scale Repeat +/-0.5% or 50m sec.
<b>Environmental Specification</b>	
Operating Temperature	0 to 50°C (32 to 122°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Humidity (Non-Condensing)	95% Relative Humidity
Weight	64 grams (.141 lbs)
Protection Level	-

## DIMENSIONS



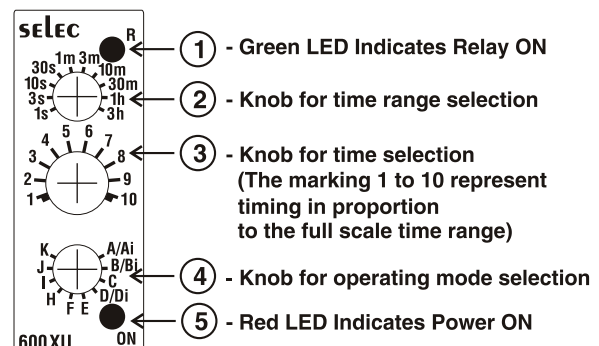
## TERMINAL CONNECTIONS

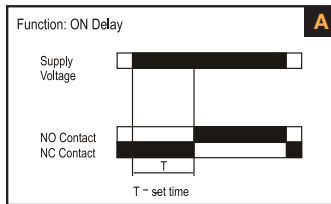


Terminal	Description
A1	L (+) TIMER SUPPLY
A2	N (-) TIMER SUPPLY
15	COM
16	NC
18	NO
25	Y CONTACT

## COMPLIANCE

Applicable EMI / EMC Standards		
Product Standard		
Category	Reference Standards	Testing Level
Electrostatic Discharge	IEC 61000-4-2	Level-3
Electrical Fast Transient / Burst	IEC 61000-4-4	Level-3
Electromagnetic Field	IEC 61000-4-3	Level-3
Surge	IEC 61000-4-5	Level-3
Conducted RF	IEC 61000-4-6	Level-2
Rated Power Frequency	IEC 61000-4-8	Level-4
Voltage Dip / Short Interruptions	IEC 61000-4-11	Level-3
Conducted Emissions	CISPR-11	Class-B
Rated Emissions	CISPR-22	Class-A
Emission & Immunity	IEC 61326-1	
Safety	IEC 61010-1	
PFMF (Passing criteria)	IEC 61000-4-8	Class A

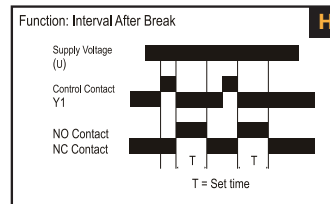




#### A – On Delay

Output turns ON after a set time when input is energized.

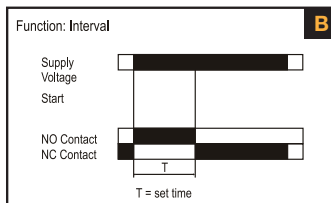
- Motor Start Delay – Avoids inrush current by sequencing equipment start-up.
- Refrigeration Compressor – Delays restart after power restoration to prevent short cycling.



#### H – Interval After Break

Timing starts only after the input signal turns OFF.

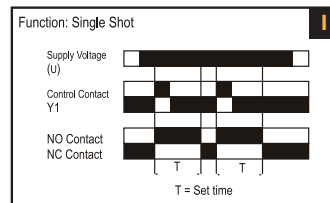
- Machine Cool-Down Period – Starts cooling system after machine shuts off.
- Garage Light Timer – Light stays ON for a few minutes after door closes.



#### B – Interval

Output activates immediately and stays ON for a set time, regardless of input status.

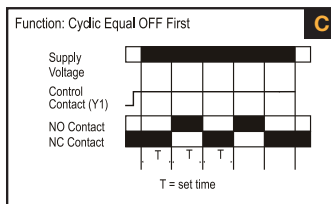
- Automatic Door Hold-Open – Door opens, remains open for 10 seconds, then closes automatically.
- Timed Lighting in Stairwells – Light stays ON for 2 minutes after switch press.



#### I – Single Shot

One fixed-length pulse per input event (non-retriggerable).

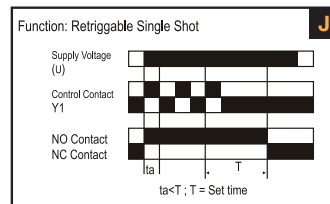
- Bag Sealing Impulse – Heat element receives one consistent pulse per package.
- Solenoid Valve Pulse – Fires once regardless of how long the input is held.



#### C – Cyclic Equal OFF First

Alternates OFF-ON-OFF continuously, starting with OFF.

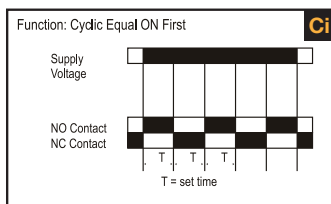
- Warning Siren Pulsing – Alarms flash/beep every 5 seconds for visibility.
- Pulsed Water Sprayer – Irrigation cycles on and off at fixed intervals.



#### J – Retriggerable Single Shot

Pulse restarts if input is re-triggered during the output cycle.

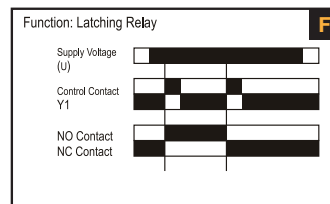
- Occupancy Sensor Timer – Light stays ON as long as motion is detected.
- Machine Jog Control – Extends jog duration if button is repeatedly pressed.



#### Ci – Cyclic Equal ON First

Alternates ON-OFF-ON continuously, starting with ON.

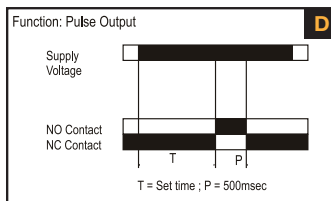
- Warning Beacon – Light starts ON for immediate visibility, then flashes repeatedly.
- Lubrication Pump Cycle – Pump cycles oil feed with consistent intervals.



#### K – Latching Relay

One pulse turns output ON; next pulse turns it OFF.

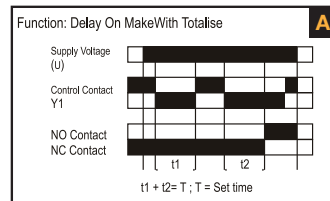
- Start/Stop Motor Button – Push once to run; again to stop.
- Mode Toggle Switch – Alternates between modes (e.g., manual/auto).



#### D – Pulse Output (500 ms fixed)

After delay, a fixed 500 ms output pulse is triggered.

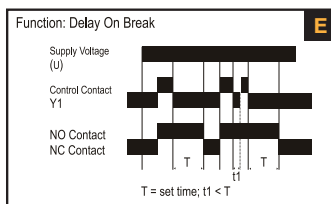
- Triggering Counters – Sends pulse to increment a mechanical or digital counter.
- Label Dispenser Start Pulse – Delivers a timed impulse to a label applicator.



#### Ai – Delay on Make with Totalize

Input must be ON for total accumulated time before output activates.

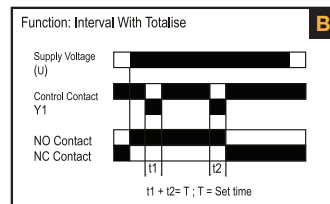
- Usage-Based Trigger – Starts maintenance reminder after 100 hours total run time.
- Data Logger Control – Activates logging only after equipment has been running long enough to justify recording.



#### E – Delay on Break (Off Delay)

Output remains ON for a time after the input is turned OFF.

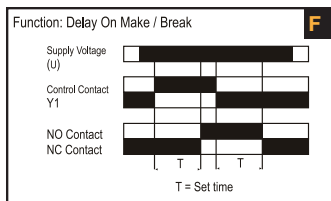
- Fan Overrun in HVAC – Ensures ventilation continues after lights or HVAC turn off.
- Security Gate Hold – Keeps a gate unlocked briefly after access signal ends.



#### Bi – Interval with Totalize

After cumulative input time reaches set point, activates output for one interval.

- Service Reminder System – Triggers a light/alarm after total usage time.
- Delayed Alert for Intermittent Faults – If fault signal accumulates to a threshold, send output signal to operator.



#### F – On and Off Delay

Delays both turning ON and OFF after input changes.

- Soft Start/Stop Lighting – Prevents flicker by buffering both transitions.
- Conveyor Gate – Opens with delay and closes slowly to reduce jams.

### CROSS REFERENCE

Finder - 80.01.0240.0000

Carlo Gavazzi - DMB51CM24, DMB01DM24

Phoenix Contact - ETD-BL-1T-230 (2905813)

Weidmüller - 2697260000

Omron - H3DK-M1 AC/DC24-24

Schneider - 821TD10H-UNI

RS PRO - 102-6125