

ACT SERIES

ADJUSTABLE CYCLE TIMER

<http://waterheatertimer.org/Tork-timers-and-manuals.html>

**1 UNIT OFFERS OVER 900 CYCLE VARIATIONS
WITHOUT BOTHERSOME JUMPERS**

**DETENT KNOBS SET PRECISE REAL TIME
WITHOUT CONFUSING PERCENTAGES**

NEMA 4X, CORROSION RESISTANT

DUAL VOLTAGE 120/240 VAC

**SINGLE POLE DOUBLE THROW RELAY
CAN CYCLE 2 LOADS OPPOSITELY**



THE ONLY NEMA 4X RATED UNIT!

ACT30/120M ACT120S ACT30/120MFS ACT120/SFS

APPLICATION EXAMPLES:

- Poultry farms for feeding of chickens at set intervals to fatten them; to run clean water through coops; for egg collection on a routine basis.
- Oil well pumping, alternating pumps to prolong motor life.
- Roof cool down for more efficient building cooling by spraying water for set intervals.
- Irrigation for crops in the field and for plants, flowers and vegetables in a greenhouse or nursery.
- Misting of fruits and vegetables in a supermarket to keep them fresh.
- Sewage treatment plant alternates between water pump and aerating fans.
- Machinery receives a shot of lubrication periodically to keep it running efficiently.
- Process control, i.e. a conveyor belt starting and stopping at set intervals.
- Laboratory experiments require light exposure at different cycle variations.
- Ventilation fans cycle ON and OFF for efficient area cooling.

FEATURES

OVER 900 CYCLE VARIATIONS IN 1 UNIT

...without bothersome jumpers!

Timer is capable of alternately cycling electrical loads on and off repetitively with electronic accuracy. Each unit offers a choice of 31 different on times and 31 different off times all field selectable while the load is ON and without changing any jumpers. Different models offer cycle increments in 2 seconds, 1/2 minute, or 2 minutes.

DETENT KNOBS SET PRECISE REAL TIME

...without confusing percentages!

Settings are simple using 2 control knobs, one for ON and one for OFF each in straight forward real time with NO confusing percentages to figure out. Each knob offers a "hold setting" **for manual on or off**. If both knobs are set to "hold", the off takes priority. Whenever the off hold is removed, the timer will go to its on time setting. Any power interruption will reset the timer to the beginning of its on cycle. **Green and red LED's indicate load status.**

SPECIFICATIONS

OPERATING TEMPERATURE: 14 to +140°F (-10° to +60°C)

STORAGE TEMPERATURE: -22 to +158°F (-30° to +70°C)

NEMA 4X and CORROSION RESISTANT*

When mounted in FS box or other suitable enclosure, timers are sealed and designed for severe environments, including dusty or ammonia-rich areas. This includes indoor use in areas requiring wash downs. * FOR INDOOR USE.

DUAL VOLTAGE 120/240 VAC

All models are available in either dual voltage 120/208-240VAC or in 24VAC. Relay output is isolated from the supply power, enabling switching of loads with a different voltage than the supply voltage. Surge protection is provided for up to 6,000 volts, 10,000 amps.

SINGLE POLE DOUBLE THROW RELAY CAN CYCLE 2 LOADS OPPOSITELY

One unit can alternately cycle 2 different loads (*unlike competitor's unit*) i.e. to prolong motor life or to switch between water flushing and aeration.

RELATIVE HUMIDITY: 0-100% non-condensing

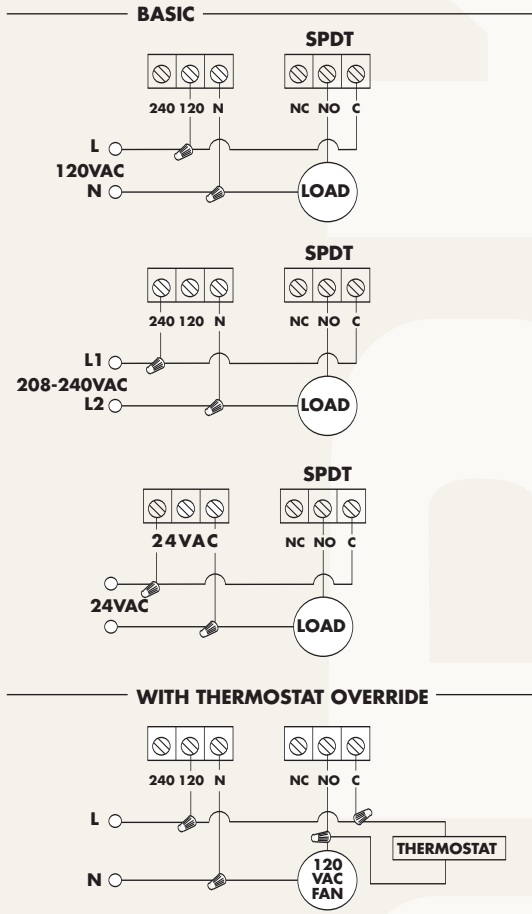
ENCLOSURE: FS box – NEMA 4X Indoor

OTHER MOUNTING: Panel mount – NEMA 4X Indoor

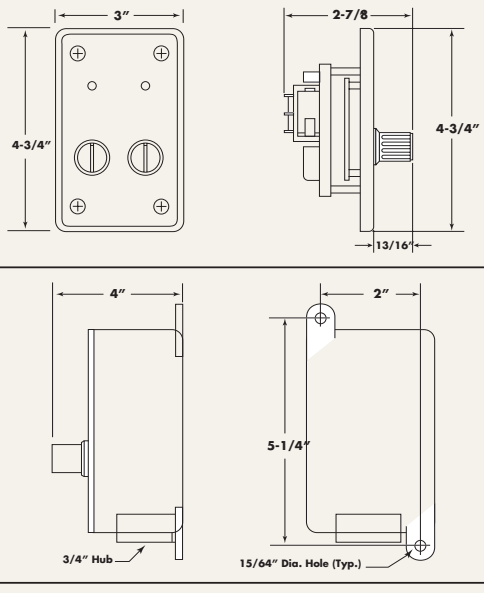


ACT SERIES	SPDT relay	CONTACT RATINGS	
		NO	NC
General Purpose (resistive)	120/240VAC	20A	10A
	277VAC	12A	6A
Motor Load	120VAC	1HP	½HP
	208-240VAC	2HP	½HP
Ballast	120VAC	20A	10A
	240/277VAC	10A	3A
Tungsten	120VAC	5A	3A
Pilot Duty	120/240VAC	470VA	275VA

WIRING DIAGRAMS



DIMENSIONS



CATALOG NO	UPC CODE	SETTING INCREMENTS	TOTAL CYCLE TIME	MIN ON	MIN OFF	MAX ON	MAX OFF	INPUT VAC 50/60HZ 4VA MAX
ACT30MFS	82500	½ min	30 min	½ min	½ min	15½ min	15½ min	120/208-240
ACT30MFS-24	82501	½ min	30 min	½ min	½ min	15½ min	15½ min	24
ACT120MFS	82502	2 min	120 min	2 min	2 min	62 min	62 min	120/208-240
ACT120MFS-24	82503	2 min	120 min	2 min	2 min	62 min	62 min	24
ACT120SFS	82504	2 sec	120 sec	2 sec	2 sec	62 sec	62 sec	120/208-240
ACT120SFS-24	82505	2 sec	120 sec	2 sec	2 sec	62 sec	62 sec	24
WITHOUT FS BOX								
ACT30M	82506	½ min	30 min	½ min	½ min	15½ min	15½ min	120/208-240
ACT30M-24	82507	½ min	30 min	½ min	½ min	15½ min	15½ min	24
ACT120M	82508	2 min	120 min	2 min	2 min	62 min	62 min	120/208-240
ACT120M-24	82509	2 min	120 min	2 min	2 min	62 min	62 min	24
ACT120S	82510	2 sec	120 sec	2 sec	2 sec	62 sec	62 sec	120/208-240
ACT120S-24	82511	2 sec	120 sec	2 sec	2 sec	62 sec	62 sec	24

SPECIFICATION WRITER'S GUIDE ACT SERIES

Furnish and install an electronic cycle timer capable of alternately turning electrical loads on and off continuously at the same or different intervals. Switch contacts shall be SPDT to allow 2 different loads to alternate status. Unit shall be NEMA 4X rated and able to withstand direct low pressure water wash down conditions. Unit shall be UL listed for both USA and Canada. Unit shall be capable of 960 cycle variations, all changeable from the front while the loads remains on. Settings shall be made in precise real time using 2 control knobs with detent positions which are also capable of holding the load on or off, the latter of which takes priority if both are engaged. Timer shall always start with on cycle when power is first applied. Unit shall contain green and red LED's to indicate the load status. Unit shall be capable of 120 or 240 VAC input. Relay output shall be isolated from the input enabling switching of loads at a different voltage from the input. Surge protection shall be provided up to 6,000 volts, 10,000 amps. Control shall be TORK Model ACT()