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## **TECHNICAL PRODUCT BULLETIN**

### **Universal Timer**

#### **Application**

- ▶ Any timed application.



#### **Specifications**

- ▶ 12VDC power supply.
- ▶ Current drain – 5,7mA standby.
- ▶ Positive or negative trigger input.
- ▶ Positive Reset input.
- ▶ Adjustable time from **2 seconds to 3 hours**.
- ▶ Normally open and normally closed relay contacts.

#### **Wiring Diagram**

**Pin 1** " **Normally Closed**" Relay contact.  
**Pin 2** " **Normally Open**" Relay contact.  
**Pin 3** " **Common**" Relay contact  
**Pin 4** " **Reset In**"  
**Pin 5** " **Trigger In**"  
**Pin 6** " **Negative**" 12VDC  
**Pin 7** " **Positive**" 12VDC.

#### **Ease of use**

- ▶ Quick and easy timer adjustment.
- ▶ Apply / Remove relevant (L1 / L2) Links and Trigger link.
- ▶ Always remove power when changing link settings.

LINK	MIN	MAX
No Link	2 Seconds	30 Seconds
L2 On	30 Seconds	3 Minutes
L1 On	3 Minutes	30 Minutes
L1 + L2 On	30 Minutes	3 Hours

- ▶ Adjust pot clockwise to increase timer from minimum to maximum settings.

## **Other Software Versions Available**

- ▶ **Delay Module: - (Ignore short pulses, delay a trigger)**  
Continuous trigger - time delayed - then relay is switched, until trigger is removed.
- ▶ **AUTO-CLOSE Module: - (Accept a short pulse, delay a trigger)**  
Single trigger - time delayed - then relay is temporally switched.
- ▶ **Stepper Module: - (Latch devices On and Off)**  
1<sup>st</sup> trigger / relay on – 2<sup>nd</sup> trigger / relay off. Trigger may be a short or a long pulse.
- ▶ **Swing Gate Module: - (Avoid strain on motor fitted with magnetic or striker lock)**  
Striker lock – release lock, trigger motor after 0.5 second delay.
- ▶ **Stepper Annouciator: - (Latch devices On / Off with audible indicator)**  
Stepper including a beeper. 1 beep - relay latches. 2 beeps – relay resets.
- ▶ **Retriggerable Module: - (Retriggerable timing option)**  
Only starts timing after trigger is removed. Timer resets back to zero with 2<sup>nd</sup> or 3<sup>rd</sup> or 4<sup>th</sup>... trigger.
- ▶ **POS trigger only: - (One zone alarm application)**  
If normally closed type trigger is used, from passives. As per versatile timer operation.
- ▶ **Wiper module: - (Pulsed operation from latch type trigger)**  
With continuous trigger, relay will pulse for 1 second every preset time period selected.
- ▶ **Extender Module: - (Extend time after trigger)**  
Operate relay when triggered, but will only begin timeout when trigger is removed.
- ▶ **One-shot Module: - (Permanent indication of a trigger)**  
Relay will latch on 1<sup>st</sup> trigger, but must physically reset timer thereafter.
- ▶ **Guard-timer Module: - (Keep guards awake during a shift)**  
LED illuminates 1 min before cycle expires.  
Relay will trigger for 3 seconds if reset button is not pressed.  
Available link times - 15, 30, 60 or 90 minute settings.
- ▶ **Power-up Delay Module:**  
Starts timing on power-up, relay remains energised after delay time, until power is removed.
- ▶ **Video timer Module: -(Record unauthorized movement via passive camera)**  
Trigger is received from PIR. LED is illuminated for 1 second, to simulate record button being pushed. 30 second record, then relay for 1 sec, to simulate stop button being pushed. Timer must be wired into video machine; may require services of an experienced technician.

The Universal timer may be configured as eight independent timers:

Standard Versatile Timer	KE04-005-A	Wiper Timer	KE04-005-E
Delay Timer	KE04-005-B	Autoclose Timer	KE04-005-F
Re-triggerable Timer (extender timer)	KE04-005-C	One Shot Timer	KE04-005-G
Positive Trigger only Timer(PIR Timer)	KE04-005-D	Power on Timer	KE04-005-H

Table1

<b>L1 &amp; L2</b>	<b>Type1</b>	<b>Type2</b>
off off	Versatile timer	Wiper timer
off on	Delay timer	Autoclose timer
on off	Retrig timer	One shot timer
on on	Pos only timer	Power on timer

Table2

<b>L1 &amp; L2</b>	<b>Time</b>
off off	3sec – 30sec
off on	30sec – 3min
on off	3min – 30min
on on	30min – 3hr

Decide which timer version you require and insert the relevant links (Table1)  
Use wire links to connect RST to TRIG and to POS.

Apply 12V DC, the led will light up for 5 seconds, if the option required is from Type 1 then wait for the led to flash to confirm the ?selection, else remove the RST link ONLY during the 5 seconds to choose an option from Type 2.

Remove power, disconnect RST and TRIG from POS.

Select your time options as previously with Link 1 and 2 (Table2), and the trigger option. Re-apply power and operate the timer in the newly selected mode, this new mode is saved in non-volatile EEPROM so is maintained even if power is removed.

Factory setting is Versatile Timer.

Pot is adjusted clockwise to achieve the time setting between minimum and maximum values. Remove power when changing the time or trigger link settings.