



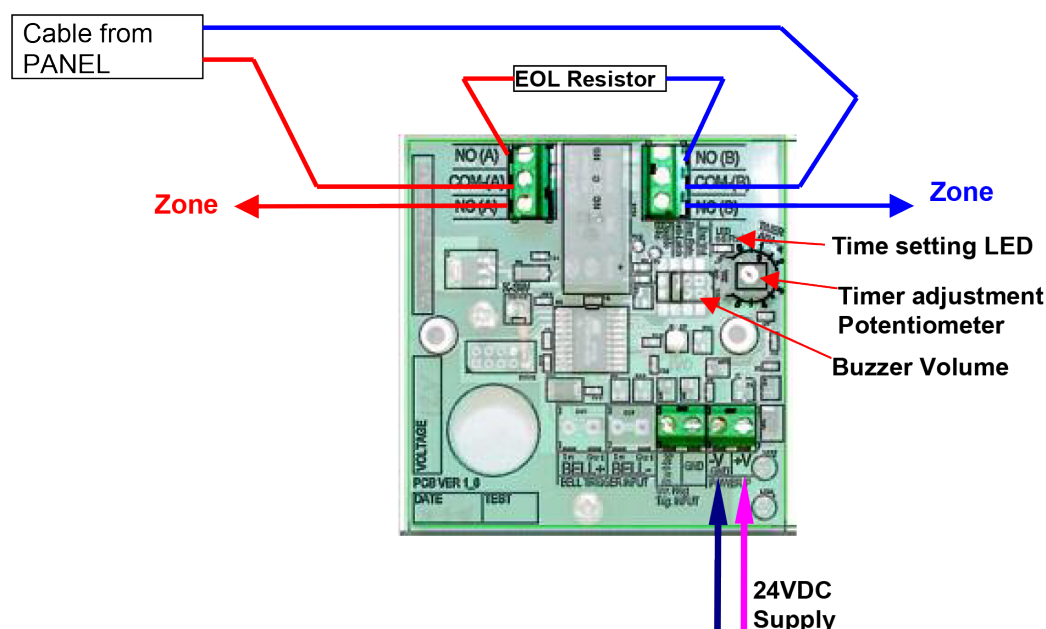
ZONE Isolator – Extended Timer interface (24V) with Indicators

Accessories – Ancillary

Part No. 500-640W/R

Key Features

- This product is designed to isolate a detection zone from a fire panel.
- There is a built in isolation timer (2, 4, 6, 8 or 10 hours) that allows the isolation to 'timeout' automatically.
- The unit is controlled by means of a key operated lock-switch.
- Two change over contacts allow an end-of-line resistor to be switched in when the unit is active.



VISUAL INDICATORS

When the OP Relay is ISOLATING the zone the RED LED is ON
 Also the Yellow LED is Flashing when ISOLATING TIMER is active
 The Yellow LED is on constant is using as standard non-timed isolator
 Internal SMD led by POT to indicate timer setting

BUZZER

There is an internal buzzer that operates when the keyswitch is in the ISO position and the timer is set to ZERO. It can be muted by removing the BUZ VOL jumper link

TERMINAL CONNECTION

+V	positive power 16V to 32V
-V	Zero Volts
-V	Spare Zero volts



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TIMER FUNCTION

The unit has a built in timer which is controlled by a potentiometer
The setting is also visually indicated by an internal flashing LED near the Potentiometer
The settings are:

No flash	zero timer, When key is in ISO position the zone is ISOLATED.
1 flash	When key is in ISO position, zone ISOLATED for 2 hours.
2 flashes	When key is in ISO position, zone ISOLATED for 4 hours.
3 flashes	When key is in ISO position, zone ISOLATED for 6 hours
4 flashes	When key is in ISO position, zone ISOLATED for 8 hours.
5 flashes	When key is in ISO position, zone ISOLATED for 10 hours.

The timer can be prematurely cut short by turning the keyswitch from the ISO to ON Position.

VISUAL INDICATORS

If keyswitch is in the **ON position** (normal mode) the following is true;
The detection circuit is connected
Relay is off (COM and NC are connected), front RED and YELLOW LED's are off.

When keyswitch is turned to the **ISO position** (isolate mode) the following is true;
relay will operate (RED LED on) and the circuit will be isolate.

If the timer is set to **zero** (pot fully counter clockwise) the circuit will be isolated for as long as the keyswitch is in the ISO position, the front YELLOW LED will be on constantly and there will also be a buzzer.

If the pot is turned to 1/2/3/4/5 then the Isolator will time out after the selected time period;

pot at pos 1	2 Hours
At 2	4 Hours
At 3	6 Hours
At 4	8 Hours
At 5	10 Hours

The key switch is left in the ISO position, during the timer period the front YELLOW LED will flash.
At the end of the timer period the RED and YELLOW LEDs will go out and the relay will swap back to its normal position. Thus allowing automatic reactivating of the detection circuit.

The key cannot be removed in the ISO position.

TIP

The Key can be turned back to the ON position and then back to ISO to restart the timer from its full time again.



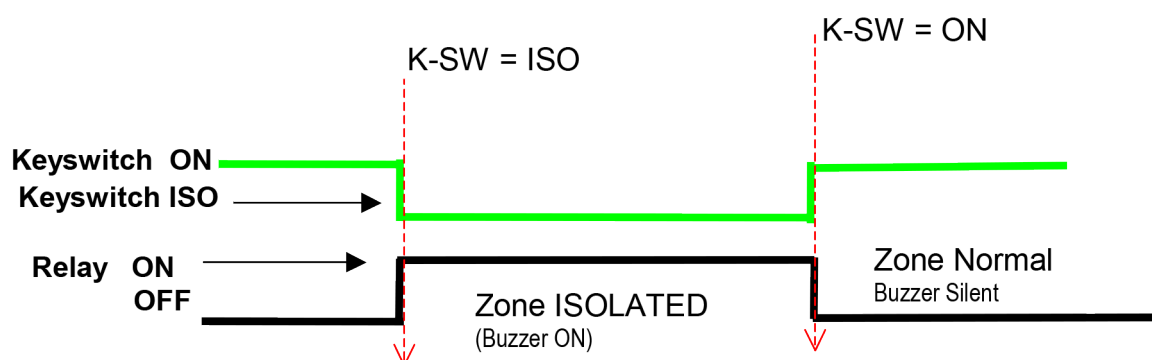
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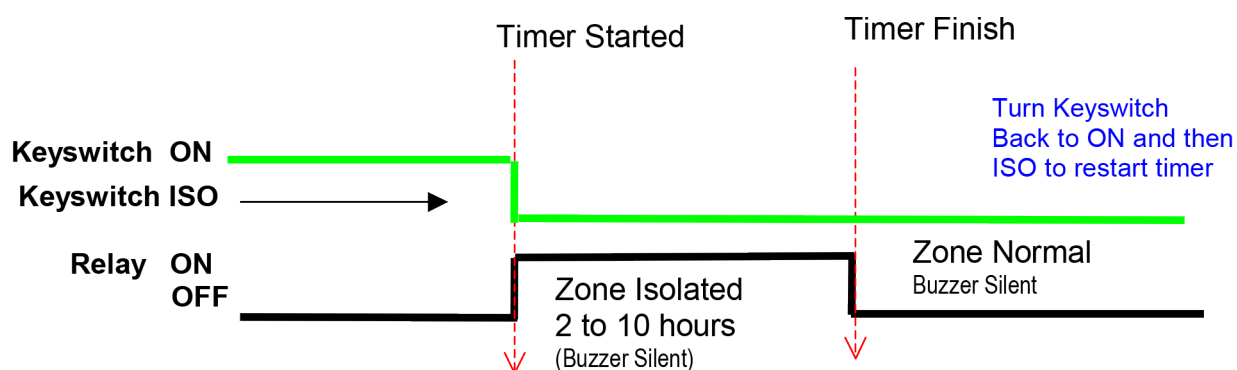
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Signal Diagram

OPERATION with timer set to ZERO, Keyswitch only control



OPERATION with the timer, Keyswitch starts timer



Technical Specifications

Working Voltage	18 to 32VDC
Current Consumption	10mA(off), 36mA(on)
Switch Contact Rating	DPCO 250VAC 8A
Enclosure Material	FR ABS
Single gang	W.86 x L.86 x H.60 mm