The Micro Instruments STAY-AWAKE SWITCH for vehicles is a Random timing device used to help keep drivers of vehicles and heavy mining vehicles awake.

The unit will sound a piezo buzzer at a high frequency in random time (within user programmable min and max) time to warn the operator to reset the unit, failing to reset the unit will result in a second louder piezo buzzer to be activated.

The system Reset switch input is fool proof and cannot be bypassed by operators.

The unit operates from 12 to 24VDC

Programmable Random user time window explained at the end of the manual.

Stainless steel Vandalism proof reset switch
1. Stay Awake switch for vehicles / machinery

The Dead-man switch is mounted in the machine (truck)cabin on the ignition wires to supply power to the unit once the machine or truck is operated. The unit is enclosed in a plastic enclosure with both piezo sounders mounted inside the enclosure with a 1.5m cable to the panel mount reset switch. The operator only have access to the panel or dashboard mount push button (reset button)– once the random time ran out the first piezo buzzer will sound and the integrated reset button led will light up, resulting in a audible and visual indication to the operator to reset the unit.

The unit will sound this first piezo buzzer at a decreasing time rate (faster beeps) between sounds with an increase in sound time (longer beeps) to warn about the reset condition and that the random time window elapsed.

By resetting the unit the device will acknowledge this by a short double tone of the first piezo buzzer and the unit selects a new random time within the user programmable time window.

Failure to reset the unit will result in the 2nd louder buzzer to be activated until the user push the reset button.

Customer can also choose between the dashboard mounted push button with integrated led or a foot-switch.

The reset switch input (Push button or Foot switch) is fool proof and cannot be bypassed by personnel. The switch cannot be kept depressed, open circuit or short circuit as this will result in a alarm condition.

Vandalism proof Push button

Foot switch
Unit specification:
Operating voltage: 12 to 24Vdc

Sound output:
Buzzer 1 (warning buzzer) = 85dB at 10cm distance
Buzzer 2 (main alarm) = 95dB at 30cm distance

The unit selects a Random time in between the minimum and maximum time as per DIP switch setting on printed circuit board. Only one DIP switch must be in the ON position at a time.

DIP 1 ON = Between 30sec to 2 minutes Random time
DIP 2 ON = Between 2 and 4 minutes Random time
DIP 3 ON = Between 4 and 8 minutes Random time
DIP 4 ON = Between 6 and 18 minutes Random time

Physical:

Enclosure ABS plastic: 112.5 x 84.6 x 41.3 mm