

# Security Electronic Access Switch

## I-KEY

**Publication Number: PB191/0517**

### System Explanation

The Dewhurst I-KEY Security Access Switch is a general purpose security module. It uses iButton type touch memories to identify the keys. If a predefined key touches on the stainless steel probe I-KEY shorts the relay contacts for five seconds and leaves the contacts open after this period. I-KEY warns the user with visual and auditory ways with on-board beeper and in-probe LED ring. I-KEY can be easily programmed with on-board pushbuttons. The end users can create their own MASTER KEY to record a new key to the module memory.



### Installing the Module

Apply 24V d.c. current on the POWER terminal of module. You should hear a BEEP sound and RED colour on the probe when you energise the module. Operation voltage has to be between 18-28V d.c. Please do not exceed this limit.

### Clearing I-KEY Memory (Memory Reset)

Press and hold the REC + DEL buttons for 3 seconds.

### Recording a New Key into I-KEY Memory

Click on the REC button on the module. You will hear a beep sound and probe colour will blink repeatedly in yellow and then in green colours. In this period, you can touch the new keys, which you want to add into the I-KEY memory. Module will exit from the recording mode if you do not touch any key on the probe in five seconds.

### Creating a MASTER KEY

I-KEY can be put in **LATCHING MODE** only with a "MASTER RECORD KEY"

To create a master key, follow the below steps:

1. Power ON I-KEY; you will hear a beep sound and probe colour will be solid RED
2. Press and hold the REC button
3. Without releasing the REC button, touch an I-KEY-FOB on the probe and release the REC button. You will see that the probe illumination is OFF
4. Release I-KEY-FOB; wait for 5 seconds until probe colour is RED

Now we have a MASTER RECORD FOB

To enter Latching Mode, touch MASTER RECORD FOB on probe and wait for 5 seconds until you hear the LONG beep sound. I-KEY will enter into Latching Mode and will exit from this mode only if:

- The probe is touched by a MASTER RECORD FOB
- The REC or DEL key is pressed
- The probe is touched by a previously recorded key

### Using MASTER KEY to record a new key into I-KEY Memory

Touch the MASTER KEY into the probe. You will hear a beep sound and probe colour will blink repeatedly in yellow and then in green colours. In this period, you can touch the new keys, which you want to add into the I-KEY memory. Module will exit from the recording mode if you do not touch any key on the probe in five seconds.

Deleting a Previously added Key from I-KEY Memory

Click on the DEL button on the module. You will hear a beep sound and probe colour will blink repeatedly in yellow and then in red colours. In this period, you can touch the previously added keys to remove from the I-KEY memory. Module will exit from the deleting mode if you do not touch any key on the probe for five seconds.

NOTE: I-KEY is capable of storing 512 different keys. When the memory is full, you will hear a long warning beep.

## Technical Specifications

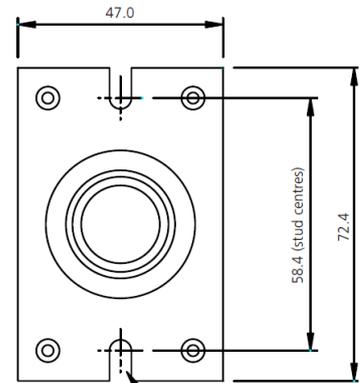
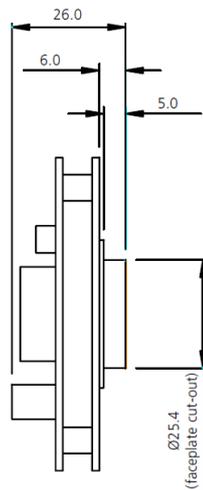
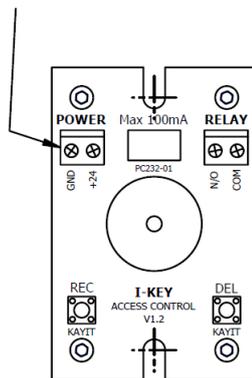
**The voltage and current rating must not be exceeded as the unit will be damaged beyond repair and the warranty will be void.**

Power Supply:	18 - 28V d.c. 50mA max
Dimensions:	48 x 73 x 27mm (X, Y, Z)
Features:	Stainless steel probe design, PVC isolation LED ring to indicate the status of the module Programmable by two pushbuttons on the module Programmable by the end user by using MASTER KEY Relay contact output On-board BEEPER Can be disabled by the end user without removing the cover Non-volatile memory, 512 different keys can be recorded The device may be latched to hold the contact closed by holding the fob on the pad, without intermittent contact for 3 seconds.

Click on the following link for technology information: <http://www.maxim-ic.com/products/ibutton/>

### IMPORTANT

Ensure supply connection is correct, to avoid irreversible damage to unit



Unit shall be mounted on M4 x 20 long studs