

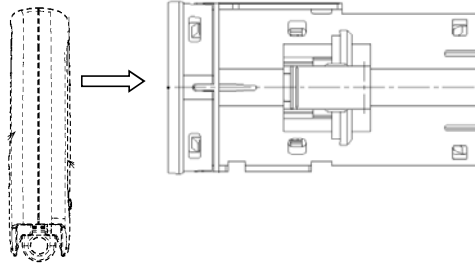
## User's Manual

Product name : Immobilizer base station

Type : TWK1A0028

It communicates with IC used both as Transponder and Passive RKE through LF ANT(Z axis) of I-key H/U, and operates as ANT to exchange communication data depending on community signal with BCM.

The immobilizer antenna communicates with the transponder in the hand unit when the hand unit is brought close, and receives the code of the key. The immobilizer is used by bringing the hand unit close as shown in

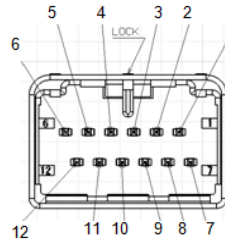


HUND UNIT

Immobilizer base station

The connector is arranged as shown in the figure below

|              | Signal Name | Contents                           | Connector Pin No. |
|--------------|-------------|------------------------------------|-------------------|
| Power        | +B          | Power Supply Line                  | 12                |
|              | GND         | GND Line                           | 1                 |
| Antenna      | DIN/DOUT    | LF Communication Signal Line       | 9                 |
|              | DCK         | LF Communication Signal Clock Line | 11                |
| Illumination | SWILL-1     | Switch Illumination Control Line 1 | 4                 |
|              | SWILL-2     | Switch Illumination Control Line 2 | 10                |
| Switch       | SS1(+)      | SSSW Signal Output Line            | 7                 |
|              | SS2(-)      | SSSW Signal Output Line            | 6                 |
| Other        | VCONT       | LF Circuit Power Control Line      | 2                 |



CONNECTOR PIN LAYOUT

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| AC/DC Supply                | DC12V                                                                    |
| Range of voltage            | DC6V~16V                                                                 |
| Consumption current         | Under 1.0mA(Standby current)                                             |
| Size                        | W40.2xL70xH40.2(mm)                                                      |
| Operating voltage           | DC6~16V(Inner:DC 5V)                                                     |
| Operating temperature range | -40~+85 degree C                                                         |
| Consumption current spec    | MAX 200mA(@12.5V 25°C) at operation<br>MAX 1.0mA(@12.5V 25°C) at standby |
| Weight                      | 0.054kg                                                                  |
| Operation of frequency      | 125kHz                                                                   |

### CAUTION

Pay attention to the following.

(The operation range might be changed by the environment. )

- Do not contact and bring metals close to the engine SW and the key.
- It may not be operated when using the equipment of the same frequency band in the vicinity.

Please DO NOT the following. Engine is not started by failure of electronic parts. (Product can not receive the signal correctly)

- Give a shock.
- Get it wet. If it got wet, wipe and dry up.
- Disassembly and modification.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of

### FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment