

## 1.0 OVERVIEW

### 1.1 Introduction

The **TBS-Touch Sensitive Switch** from **XPR** is an entirely electronic, non-mechanical and ergonomically designed access control device. It can either function as an independent manually-controlled push button or alternatively, be connected to a controller to facilitate access from a secure area. This futuristic device is activated at the lightest of touches and is triggered by the users own static electricity. With its attractive modern look and die-cast metal body the TBS combines elegance and aesthetics with ruggedness and reliability.

### 1.2 Features

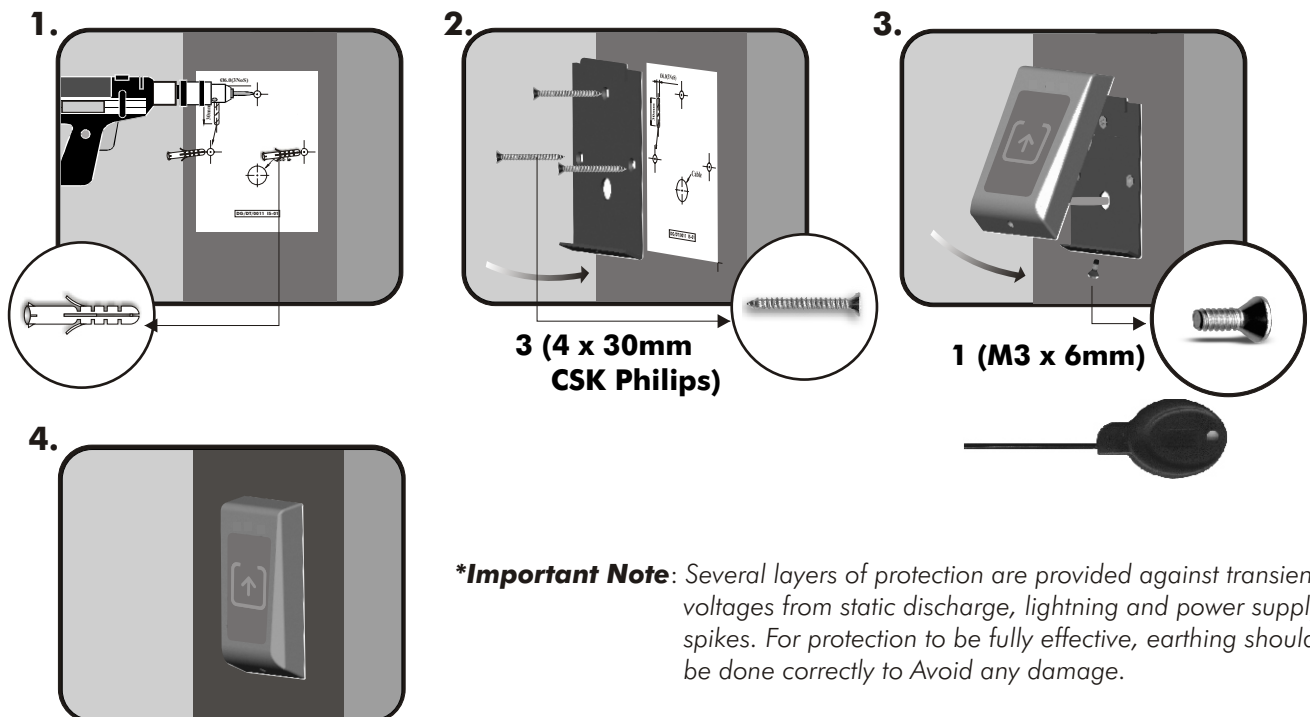
- Touch sensitive control.
- Ideally suited to a wide range of Applications.
- Separate terminal block to earth the housing.
- Onboard dipswitch to set for latch or pulse selection.

### 1.3 Specifications

Input voltage:	12/24V AC/DC
Current consumption:	Max 30mA
Relay Output:	DPST with 1A Contacts
Indicators-LED:	Normal - RED Relay Operation – GREEN
Operating Temperature:	-15° to 55°C (Internal Use)
Operating Humidity:	Non-condensing up to 95%
Dimension (mm):	85W x 116L x 22H
Housing:	Die-cast zinc alloy housing.
Touch Plate:	Stainless steel.
Protection:	IP54

## 2.0 INSTALLATION

### 2.1 Mounting instructions

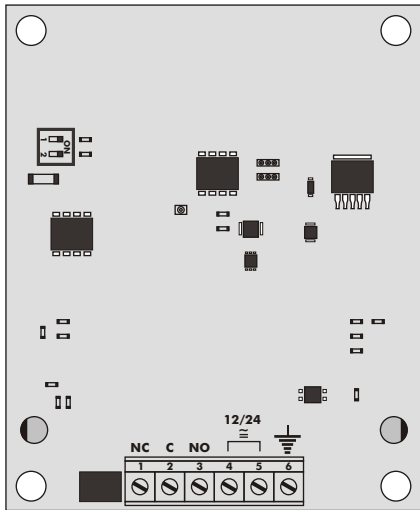


**\*Important Note:** Several layers of protection are provided against transient voltages from static discharge, lightning and power supply spikes. For protection to be fully effective, earthing should be done correctly to Avoid any damage.

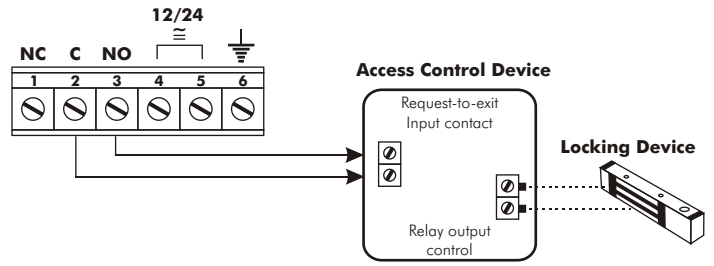
## 3.0 WIRING and APPLICATIONS

- Light switches
- Exit button (Access control)
- Elevator buttons
- Industrial panels

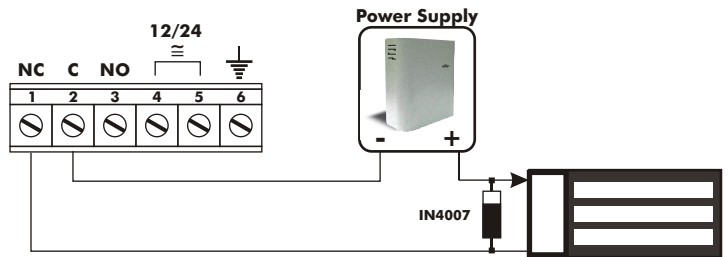
### 3.1 PCB View



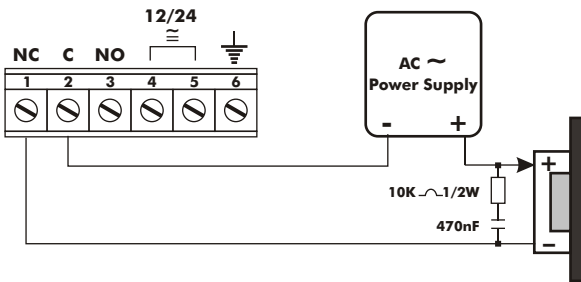
### 3.2 Application & Wiring



### 3.3 Output Connection for DC Device - Fail Open



### 3.4 Output connection for AC Device - Fail Secure

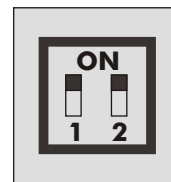


## 4.0 OPERATION

- Complete the wiring as in the application options in **Section 3.0**.
  - Switch on the Power Supply.
  - A light touch of the front plate will operate the relay.
  - The Red and Green LED's show operating status.
  - Relay timings can be set to Pulse or Latch Mode. The Dipswitch (see diagram) is used to set the relay timing.
- The following table illustrates the setting positions and their values.

Operation	Switch 1	Switch 2
Latch Mode	ON	ON
3 Seconds	OFF	OFF
5 Seconds	ON	OFF
10 Seconds	OFF	ON

#### Dipswitch



The Green LED is lit during relay activation.

**Note:** Set the operating time only before switching on power to the TBS.

Switch off the power supply to the TBS if the operating time is to be changed.

Select a new time setting and then wait a few seconds for the circuit to re-adjust before switching back the power.

#### Approvals and Safety standards

Immunity: Meets to EN50082-2 (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5 and EN61000-4-6)

**Warranty:** XPR warrants its products to be free from defects in material and workmanship for 24 months from the date of shipment. The product is to be installed in accordance with XPR's instructions and the unit should not be modified or tampered with. XPR does not assume any responsibility for damages arising from misuse of the product. XPR's sole responsibility is limited to the repair or replacement when the product is sent to XPR's facility.