Request to exit button Scoria Touch

Scoria Touch is a metal, illuminated, timed, non-mechanical and ergonomically designed request to exit button. It is designed to operate in various high use, harsh and vandal prone environments.

1.0 Description

1.1 Introduction

The Scoria Touch is a request-to-exit switch, It will work independently (standalone) or can equally be connected via a controller to provide exit from a secured area (Push Button Input). With its slim looks and die-cast metal body, the Scoria Touch combines elegance and aesthetics with ruggedness and reliability.

1.2 Features

- Feather light touch control
- Works in Pulse and Latch mode
- Ideal for a wide range of applications
- Vandal resistant
- A separate terminal block to earth the housing
- Front dual light indication
- Buzzer sound on every touch
- External LED control

1.3 Specification

- Input voltage: 12/24V AC/DC
- Current consumption: Max 65mA
- Output: Relay (1A 24 DC / 120V AC)
- Illumination (LED): Normal – Red, Operation – Green
- Operating Temperature: -15C° to 55C° (internal use)
- Operating Humidity: Non-condensing up to 95%
- Dimension (mm): L92 x W51 x H25
- Housing: Die-cast zinc alloy housing
- Touch Plate: Stainless steel

2.0 Installation

2.1 Mounting

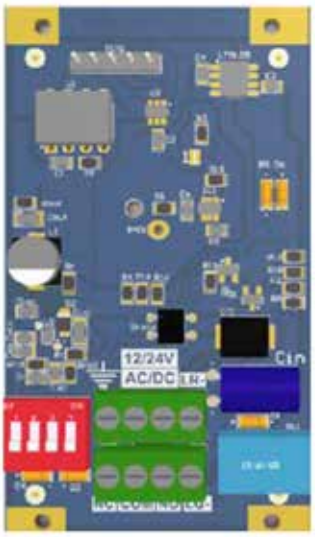
1. Identify a suitable location on a wall or at surface.
2. Stick the Drilling Template provided on chosen location. Drill 3 holes as indicated in the diagram.
3. Insert 3 nos. of 6 mm wall plugs provided into the drilled holes.
4. Route the cables through the holes provided in the BackPlate.
5. Fix the BackPlate rmly on the wall using 3 nos. of 4 x 30mm CSK screws.
6. Connect wires to PCB.
7. After wiring, place the Housing over the xed BackPlate and guide the slot into the Back-Plate tab and slide it downwards.
8. Fix the Housing to the Back-Plate with a M3 x 6 mm Security Screw on the bottom of the Housing using a Security Screwdriver provided.

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.

3.0 Applications

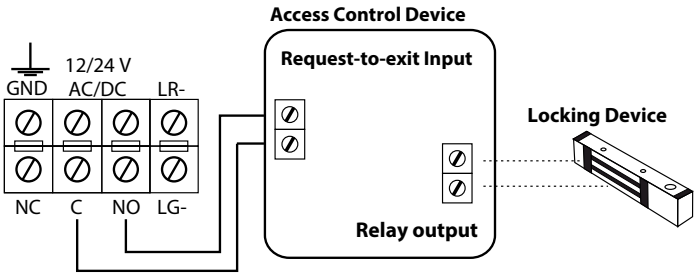
- Light switches
- Exit button (Access control)
- Elevator buttons
- Industrial panels

3.1 PCB view

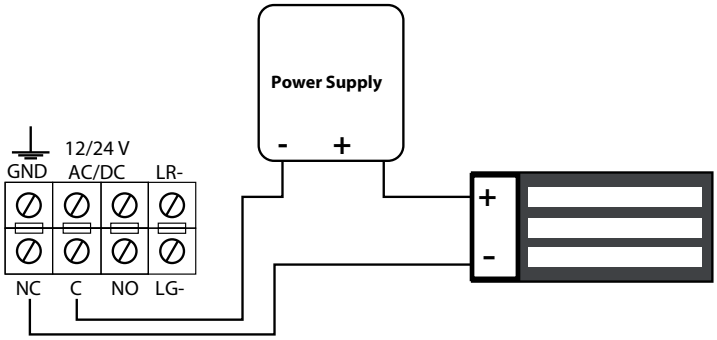


Important Note: Several layers of protection are provided against transient voltages from static discharge (ESD), lightning and power supply spikes. For protection to be fully effective, earthing should be done correctly to avoid any damage.

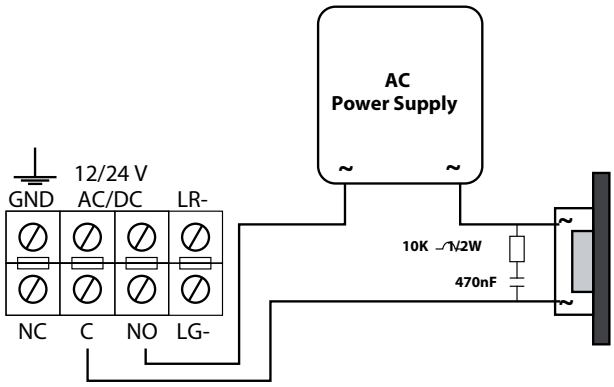
3.2 Applications and wiring



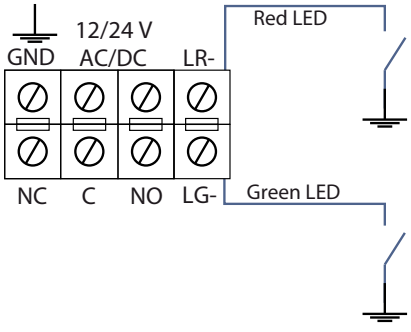
3.3 Output connection for DC devices fail open



3.4 Output connection for AC devices fail secure

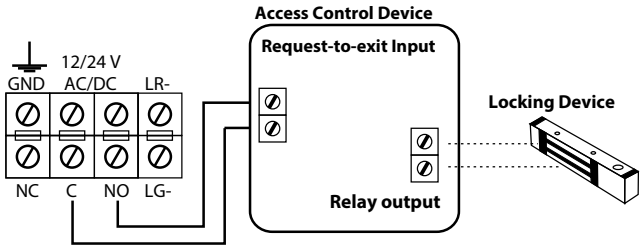


3.5 External LED control



Note: The LED can be controlled externally only if the device is DC powered.

4.0 Operation mode



Scoria Touch operates in Latch and Pulse mode. The time is set by DipSwitc setting. Two DipSwitch are used for setting time: Switch1 and Switch2.h

The table illustrates the DipSwitch settings in different modes

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

Note:
- Set the operating time only before switching on power to the Scoria Touch.
- Switch off the power supply to the Scoria Touch 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.

LED Control mode	Switch 3	Switch 4	DipSwitch
Internal LED control	ON	ON	
External LED control	OFF	OFF	
Double LED control *	ON	ON	
Mixed LED control** Red LED – external Green LED – internal	OFF	ON	

* Double control: Turn ON both DIP switch and connect terminal blocks “LG-” and “LR-” to external controller. Light will be on by OR logic – LED will be ON if internally OR externally is connected to GND

** Mixed mode: One color can be controlled internally (ex. Green LED DIP Switch is ON) and other externally, one can be in double control and other internally.