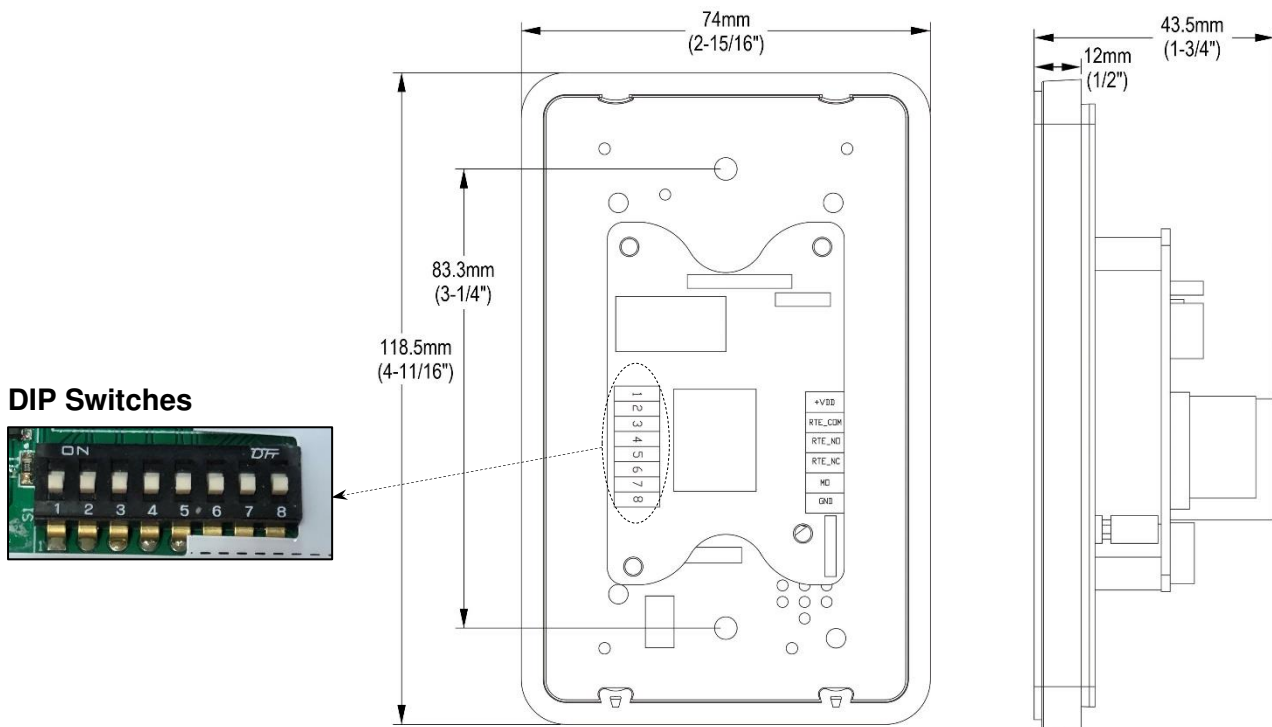


# 90 09M Touchless switch

## Installation and Instruction sheet

Specification			
<b>Dimensions</b>	118.2(L) x 74.2(W) x 8.5(H) mm	<b>Current draw</b>	
<b>Detection Mode</b>	Proximity	Standby:	50mA
<b>Technology</b>	Capacitive proximity sensor	Activated:	115mA
<b>Detection Zone</b>	Typical 25~50mm	<b>Weather rating</b>	Indoor
<b>Output</b>	Dry contact (SPDT) rated @ 30VDC/1Amp	<b>Operational Temperature</b>	-20°C~+60°C
<b>Switch mode</b>	Momentary (from 1~15 Sec)	<b>Operating humidity</b>	10%-90%
<b>Voltage</b>	12-24VDC (+/-10%)	<b>Material</b>	PC + ABS

### Mounting Dimensions



#### DIP Switches

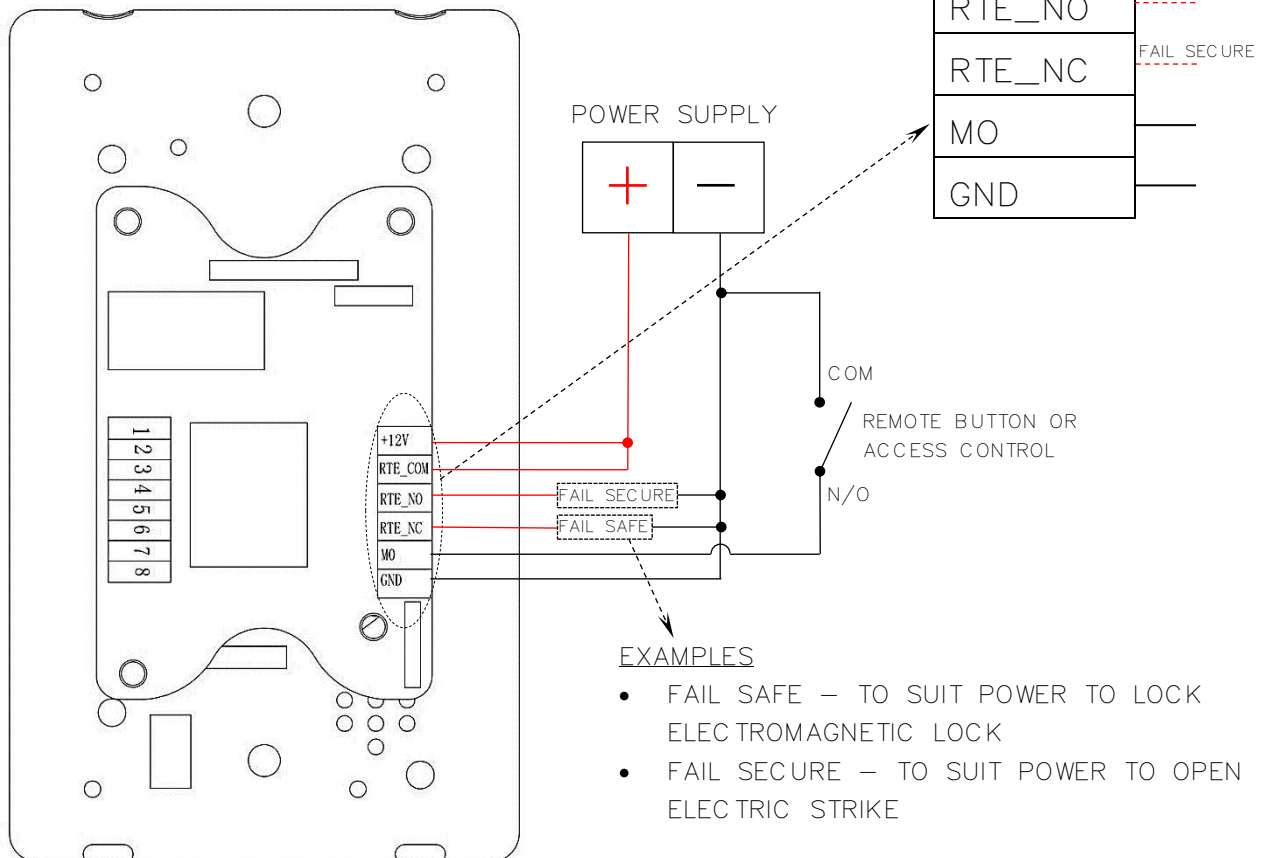


### Installation Instructions

- To remove front panel** Gently grip the top of the front panel and unclip. Slide towards the bottom to remove the front panel.
- Wiring** Wire as per chart on Pg.2. For convenience the 90 09M is provided with a removeable terminal block.
- Unlock Time** Select DIP Switches 1 to 4 and switch to ON for adding desired Unlock time (1-15 Seconds): SW1 = 1 Second, SW2 = 2 Seconds, SW3 = 4 Seconds, SW4 = 8 Seconds.  
*Eg. SW2 & SW4 set to ON (2 Seconds + 8 Seconds) = 10 Seconds Unlock time.*
- Buzzer On/Off** Select DIP Switch 5 to turn Buzzer ON/OFF: SW5 set to OFF = Buzzer ON (default), SW5 set to ON = Buzzer OFF
- Detection Zone** Select DIP Switch 8 to adjust detection zone - SW8 set to OFF (Default) provides detection zone of 50mm SW8 set to ON provides detection zone of 20~30mm.
- DIP switches 6 & 7 are not in use.
- Secure switch plate onto mounting bracket or box with appropriate screws. For convenience 2 x 6/32 x 1" screws are supplied with switch.
- Reinstall front panel by positioning bottom catches in place, lift and press to top until it clicks into place.

## Wiring Diagram & DIP Switch settings

Label	Description
+VDD	Positive (+12V~+24VDC) Input
RTE_COM	Exit Button Output (Dry Contact)
RTE_NO	
RTE_NC	
MO	Input for external device to trigger the door open (N/O)
GND	Ground (0 VDC) Input



## Function

- Wave hand near switch to activate. An audible beep will sound (Optional), and the LED will change to green.
- At the same time the relay will trigger for 1-15 Seconds.
- To adjust the relay open duration, power off the exit button and change the DIP switch setting according to installation instructions.
- In case of power failure, a secondary mechanical switching feature is available by simply pressing gently on the face of the switch to activate as press button.
- Input available for external switch such as an access control device to trigger the device.
- Optional wireless remote-control and receiver PCB (433MHz) is available as accessory. Up to 5 remote control buttons can be added. Easy to install & set up.

June 2020