SDC Security Door Controls

INSTALLATION INSTRUCTIONS
MODEL 474U – TOUCHLESS SENSE SWITCH

Installation & Operation
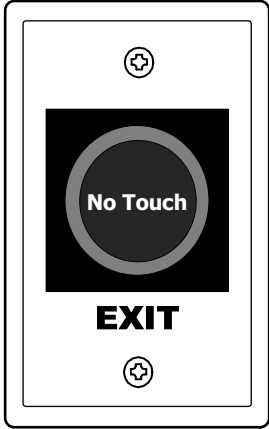
NOTE: *The SDC 474 must be mounted to a single-gang electrical back box or plaster ring.*

1. Unscrew the four rear cover screws. Remove the rear cover to expose the 8-position screwless terminal block.
2. Feed the wiring through the wall to the back box. Feed the wiring through the gasketed hole of the rear cover. Verify that the wire leads are on the inside of the rear cover.
3. Connect the wires onto the screwless terminal block (see page 2 for typical wiring examples). Verify that each wire is securely terminated by gently pulling on each wire.
4. Replace the rear cover of the sensor switch, and secure the four cover screws.
5. Mount the stainless steel faceplate onto the back box using the two supplied screws. Be careful not to pinch any wires when mounting the device.
6. Apply 12VDC power to the device. The LED indicator ring will turn RED.
7. Test for proper activation by placing a hand within 4" of the sensor. The LED sensor ring will change from RED to GREEN, and both relays will activate.
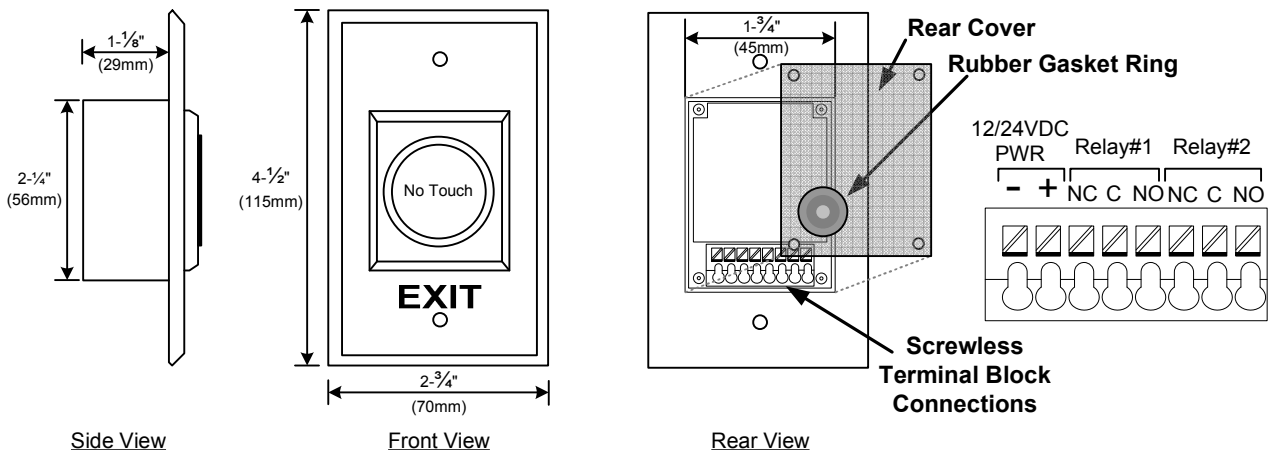
Features & Applications

- Uses IR Sensor technology; device is activated with the simple wave of a hand
- Designed to control electric locks/strikes, magnetic locks, or automatic door operators
- Ideal for use in cleanrooms, hospitals, labs, schools, or offices
- Sensing range up to 4" (10cm)
- Mounted on a durable stainless steel plate
- Dual LED, illuminated sensor indicates status
- Quick connect screwless terminal block for easy installation.

Specifications

Input Voltage			
Current @ 12VDC / 24VDC	30mA / 15mA Standby		70mA / 35mA Active
Contact Rating	(2) Form C Relays, 3A@30VDC (Resistive)		
LED Color — Standby	Red		
LED Color — Active	Green		
Range	4" (10cm) max.		
Output Activation Time	5 Second or as long as sensor is triggered		
Operating Temp.	-4deg F ~ 131deg F (-20C ~ 55C)		
Weight	3 oz. (85g)		
Dimensions	4.5" X 2.75" x 1.375" (mm = 115 x 70 x 35)		

Dimensions

Side View — 1-⅛" (29mm), 2-¼" (56mm)

Front View — 4-½" (115mm), No Touch, EXIT, 2-¾" (70mm)

Rear View — 1-¾" (45mm), Rear Cover, Rubber Gasket Ring, Screwless Terminal Block Connections

12/24VDC PWR − + Relay#1 NC C NO Relay#2 NC C NO

Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

Typical Wiring Examples

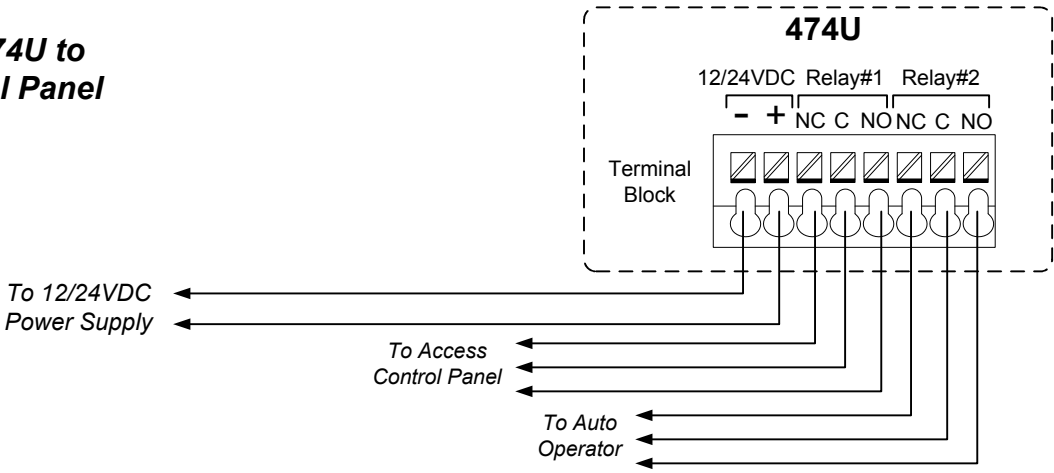*Connecting the 474U to an Access Control Panel or Door Operator:*

474U

12/24VDC   Relay#1   Relay#2

– +   NC C NO   NC C NO

Terminal Block

To 12/24VDC Power Supply

To Access Control Panel

To Auto Operator

Figure 1.

Using the 474U as an Request to Exit device in an access control system.

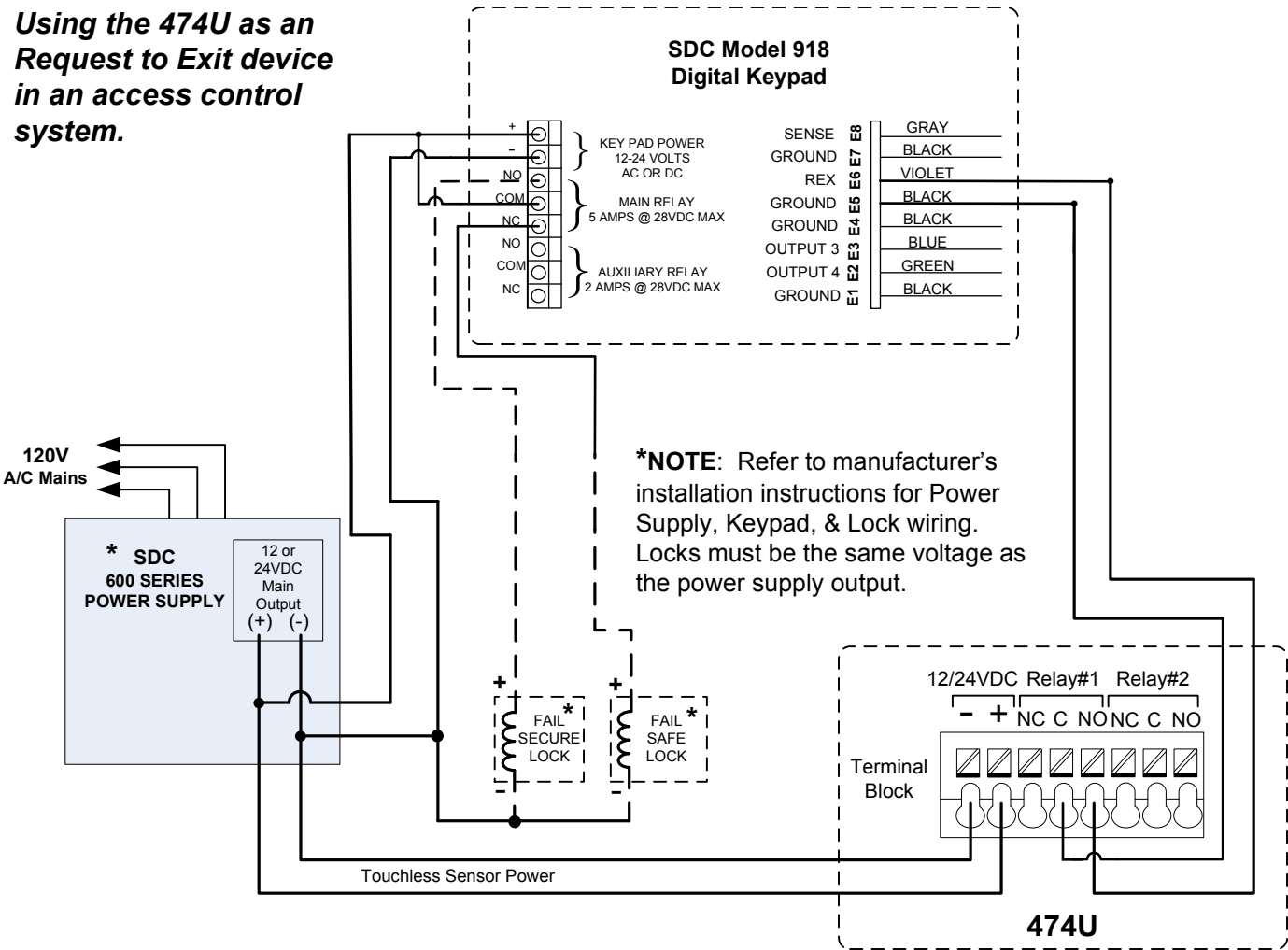**SDC Model 918 Digital Keypad**

+
–   KEY PAD POWER 12-24 VOLTS AC OR DC

NO
COM   MAIN RELAY 5 AMPS @ 28VDC MAX
NC

NO
COM   AUXILIARY RELAY 2 AMPS @ 28VDC MAX
NC

SENSE	E8	GRAY
GROUND	E7	BLACK
REX	E6	VIOLET
GROUND	E5	BLACK
GROUND	E4	BLACK
OUTPUT 3	E3	BLUE
OUTPUT 4	E2	GREEN
GROUND	E1	BLACK

120V A/C Mains

* SDC 600 SERIES POWER SUPPLY

12 or 24VDC Main Output (+) (–)

*NOTE: Refer to manufacturer's installation instructions for Power Supply, Keypad, & Lock wiring. Locks must be the same voltage as the power supply output.

+   FAIL SECURE LOCK *

+   FAIL SAFE LOCK *

12/24VDC   Relay#1   Relay#2

– +   NC C NO   NC C NO

Terminal Block

Touchless Sensor Power

474U

Figure 2.