

AirWave Range

Non Touch Capacitance Switch

The Airwave is a Non Touch switch ideal for automatic door activation or clean room access control where hygiene is of the utmost importance.

Functional data:

- Elegant non contact switch
- Well suited for clean room/sterile areas access, for disabled activation of automatic doors or for equipment control in the pharmaceutical or chemical industry.
- Detection not dependent on the optical parameters of an object as is the case with other switch technologies.
- Switch activation possible with gloved hand
- Possibility to use several sensors in close proximity
- Adjustable detection field of between 0 to 10 cm
- Acoustic signal during detection (May also be switched off)
- Volume control of acoustic signal possible
- LED indicator during detection and standby mode making the sensor more visible to visually impaired users (11 different programs)
- Universal relay output (one C type contact)
- Regulation of relay hold time by potentiometer (0,6s up to 50s)

Installation instructions:

- 1. Turn off power supply**
2. Type SAP 4055 - Remove the front graphic panel from the case (the graphic panel is loosely placed on the front of the switch case).
3. Remove the locking screw in the front of the case.
4. Twist the front cover 1/8 turn anticlockwise to open the case.
5. All other models – unscrew the 2 locating screws using the Allen key supplied through the access holes in the unit fascia
6. Screw back part of the case to the mounting point (e.g., a wall). Please note that there are 3 holes in the back part of the case; the large hole lies on the centre line of the switch case.
7. Connect wires to relay contacts. CO-NO contacts are shorted during detection, CO-NC contacts are shorted when there is no detection or when there is no power supply. (CO = Common, NO = Normally open, NC = Normally closed).
8. Connect power supply wires. You can achieve better stability and bigger sensing field when “-“ wire is grounded.
- 9. Turn on power supply**
10. Using the potentiometers set the volume of the acoustic signal (VOL), the sensitivity (SENS), and the relay time (TIME).
11. Using pushbutton set up LED program (see technical data table bellow)
12. Type SAP 4055 - Close the cover by twisting on clockwise
13. Test your settings by waving your hand in front of the sensor several times
14. If necessary open a case and repeat regulation
15. When you are sure that your settings are ok, replace the locking screw Type SAP 4055 and stick the graphic panel to the front of the case. All other types use the Allen key to tighten the 2 fixing screws ensuring they are both driven in evenly. Do not overtighten. The access holes may be plugged with a silicone sealer if total encapsulation is required (such as clean rooms or medical applications)

Technical data:

Type	SAP 4050 – 4057 Range
Detection method	Capacitive
Range	1 to 10cm
Power supply	12 to 24V AC DC +/-10%
Power consumption (external power)	max <55mA, typically about 15mA
Power consumption (battery)	<110uA (note LED is not operable in battery mode)
Output	C-type relay
Output operating time	Regulated by potentiometer from 0.6s to 50s
Response time	When powered externally: 50ms When powered from battery: 100ms
Sensitivity adjustment	Potentiometer 10% to 100%
Acoustic signal loudness	Potentiometer from 0% to 100%
LED indication	<p>Detection: LED is ON for 1s</p> <p>Standby: you can chose one from 11 programs by pushbutton:</p> <ol style="list-style-type: none"> 1. 0.50s ON, 0.50s OFF... (blinking 1Hz) 2. 0.25s ON, 0.25s OFF... (blinking 2Hz) 3. 0.10s ON, 0.10s OFF... (blinking 5Hz) 4. 0.50s ON, 0.05s OFF... (blinking 10Hz) 5. 0.10s ON, 0.50s OFF... (one long flash and pause) 6. 0.05s ON, 0.50s OFF... (one short flash and pause) 7. 0.10s ON, 0.10s OFF, 0.10s ON, 0.50s OFF... (two long flashes and pause) 8. 0.05s ON, 0.10s OFF, 0.05s ON, 0.50s OFF... (two short flashes and pause) 9. 0.10s ON, 0.10s OFF, 0.10s ON, 0.10s OFF, 0.10s ON, 0.50s OFF... (three long flashes and pause) 10. 0.05s ON, 0.10s OFF, 0.05s ON, 0.10s OFF, 0.05s ON, 0.50s OFF... (three short flashes and pause) 11. OFF
Operating temperature	-20C to +55C
Weight	95g
Equipment	<ul style="list-style-type: none"> • Sensor • Instruction
Sizes	<p>Jamb 38mm wide x 115mm high</p> <p>115mm square</p> <p>152mm square</p> <p>Abex 80mm wide x 100mm high</p> <p>Ospel 75mm x 75mm</p> <p>OKW 110mm diameter</p> <p>Glass mounted 152mm square</p>

