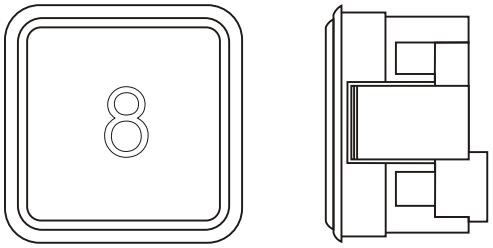
ANIGMO TOUCHLESS SWITCHES. *WHEN THE DESIGN NEEDS TO BE ABSOLUTELY PERFECT*

TOUCHLESS BUTTON
AL-30-S1-xx



Description

Touchless button AL-30-S1-xx operates from a low voltage power source and provide a simple digital output when an object is detected in front of the button.

The button sensor works through most materials and is resistant to dirt deposits on the surface of the sensor, such as dust and grease. It can reliably detect a hand or a finger even through clothing.
It is primarily designed to be used as an elevator/lift button and it uses proprietary sensor technology for reliable detection of objects while maintaining a large sensing range.

The button features a stainless steel front plate and is designed to be indistinguishable from regular mechanical elevator/lif buttons. This makes it perfect for the direct replacement of existing buttons while maintaining the same aesthetics and mechanical strength.

The button also features LED backlighting in various standard colors. The stainless steel front plate can include backlit symbols such as numbers, letters, and glyphs to indicate button function.

The button features a user-selectable activation delay to reduce the possibility of accidental activation. The delay can be set by a trimmer on the back of the button.

Features

- *An innovative alternative to mechanical lift/elevator buttons.*
- *No-touch operation eliminates users exposure to cross-contamination with pathogens*
- *It can directly replace standard mechanical buttons*
- *Stainless steel front plate design makes it indistinguishable from mechanical buttons*
- *LED backlighting in various standard colors*
- *Backlit symbols on the stainless steel front plate*
- *Resistant to vandalism*
- *Activation delay adjusted with a trimmer*
- *Low power consumption.*
- *Excellent noise immunity.*

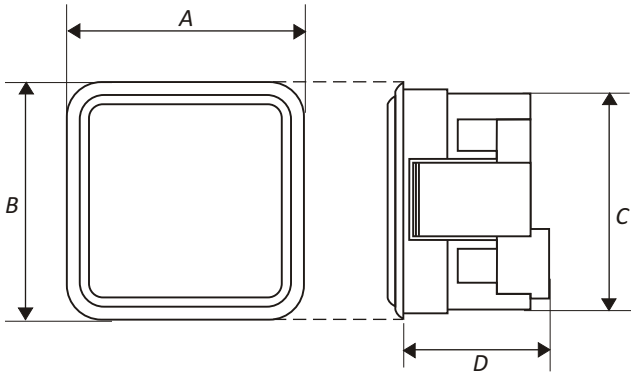
Applications

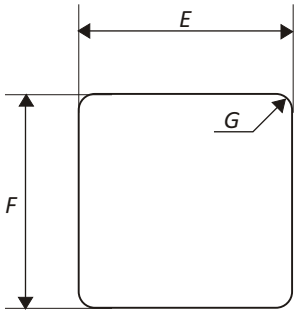
- *Replacement of mechanical buttons (elevators/lifts, automated doors, etc.).*

Specifications

TECHNICAL DATA	AL-30-S1-xx
Supply input voltage range nom:	12 - 24 V DC
Supply input voltage (min - max):	6 - 30 V DC
Supply current:	max. 15mA @ 12V (27mA when LED indicator is active)
Output:	Dry (isolated) signal relay contact: xx: NC - contacts normally closed NO - contacts normally open
Detection frequency:	5 Hz
Range :	2.5cm
Mounting method:	Plastic spring clip
Mounting plate thickness:	2-3mm
Input/Output connections:	JST XH 5-pin connector (20cm wire harness included)
Relay activation delay (adjustable):	0-250ms
LED backlight activation voltage:	0V, LED off 5-30V, LED on
Operating temperature range:	0 °C to +50 °C
Housing dimensions (W x H x D):	35mm x 35mm x 20.7mm

Dimensions

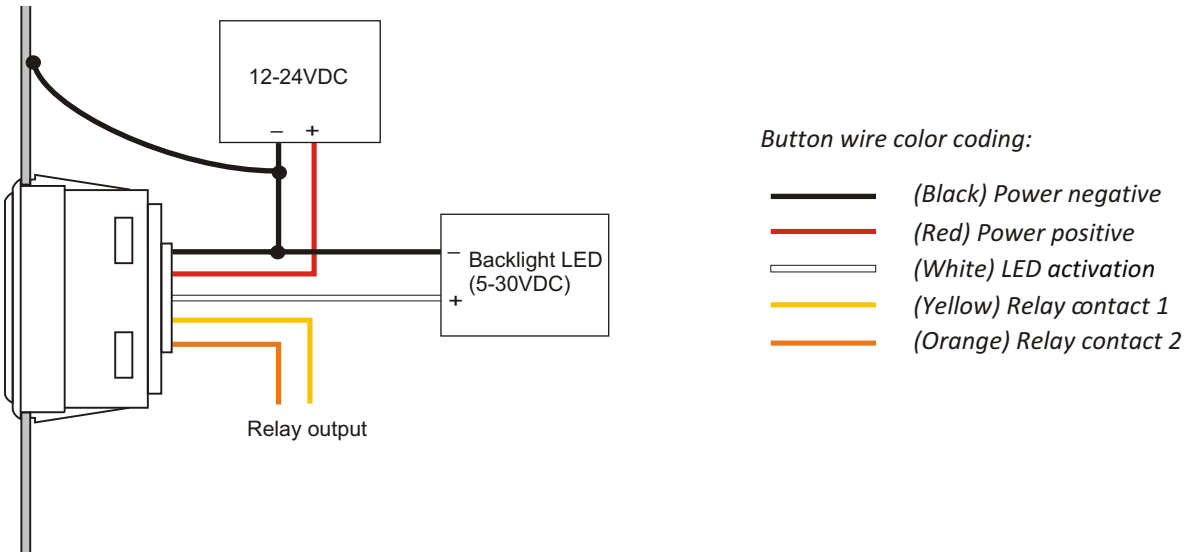




Panel mounting cutout

A (width)	34.5 mm
B (height)	34.5 mm
C (back housing width)	32.2 mm
D (back housing depth)	20.7 mm
E (mount hole width)	32.8 mm
F (mount hole heigth)	32.8 mm
G (mount hole max radius)	4 mm

Installation



Wiring diagram

IMPORTANT: *The chassis (mounting panel) ground should be connected to the button PSU negative wire. Ground loops should be avoided. Make sure that wire connections are secure, any loose contact in any connection could lead to unstable operation.*

IMPORTANT: *Touchless buttons have signal relay output. The output relay should NOT be used to switch loads.*

Note 1*: The trimmer on the back of the button labeled "Delay" can be used to adjust the relay activation delay. The button is supplied with the delay set to "0".*
Relay activation delay can be used to reduce false activations. If the delay is set to "0", the relay is activated immediately when the user puts the hand in the sensing range. At the same time, LED illumination is automatically activated (the button lights up).
If the activation delay is set to a non zero value, the relay will activate after the set time after the user puts the hand in the sensing range. The LED illumination is activated immediately, regardless of the activation delay setting.

LED BACKLIGHTING:

LED backlighting activates automatically whenever the button sensor detects the hand in the button detection range, independent of the LED activation input (white wire) status.
If the LED activation input is inactive, the LED will switch "off" when the user moves the hand out of the sensor range.

If the LED activation input is active (receives voltage above 5V) the LED will switch on and will remain on, while this input is active.