

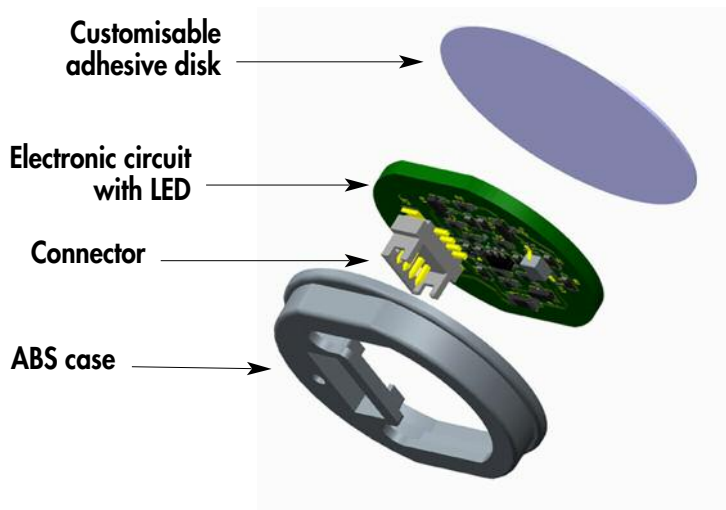
### And your panel becomes active !

Like the CP series, CG series switches are activated by the touch of a finger. But they are designed for mounting under a non-conductive front face (glass or polycarbonate\*) and are activated through the front face, transforming the inert fascia into an active interface. Low profile is an asset for this type of mounting.

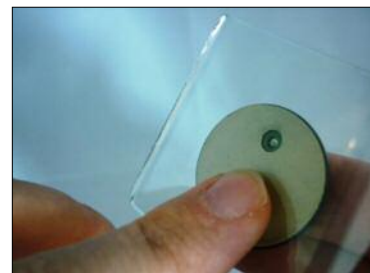
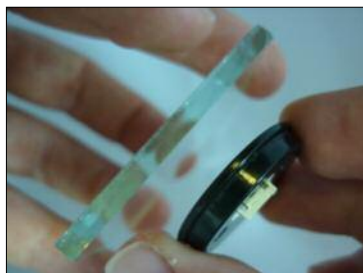
- ❑ **50 million cycles**  
No moving mechanical parts to wear out.
- ❑ **Advantages of under-panel mounting**
  - Robustness
  - Sealing
  - Easy to clean flat surface
  - Easy panel marking
- ❑ **Custom disk colours and marking**  
Marking flexibility based on digital printing.



\* For other non conductive materials, consult APEM.



### Mounting of a CG switch



Note : the panel surface should be degreased prior to mounting.

# CG series

## Capacitive switches for underlay applications

### Specifications



- Activated by the touch of a finger**  
Even with surgeon gloves
- 50 million cycles**
- Auto-calibration function**  
Ensures the sensor adapts to changing external environments
- Mounting under max. 6 mm glass or 4 mm polycarbonate panels**

#### ELECTRICAL AND GENERAL SPECIFICATIONS

- Supply voltage : 5 to 24VDC max.
- Supply current : 15mA max. (12V)
- Max. current/voltage rating : 200mA 24VDC
- Life expectancy : 50 million cycles
- Switch resistance ON : 1 Ohm max.
- Power consumption : 10mA max. mode OFF

#### ENVIRONMENTAL SPECIFICATIONS

- Temperature range : -40°C to +70°C
- Adhesive and connector resistant to vibrations

#### MATERIALS

- Case : ABS
- Sealing : epoxy

#### Wiring for connector Harwin M30-6000446

- Pin 1 : +VCC
- Pin 2 : not used
- Pin 3 : GND
- Pin 4 : output

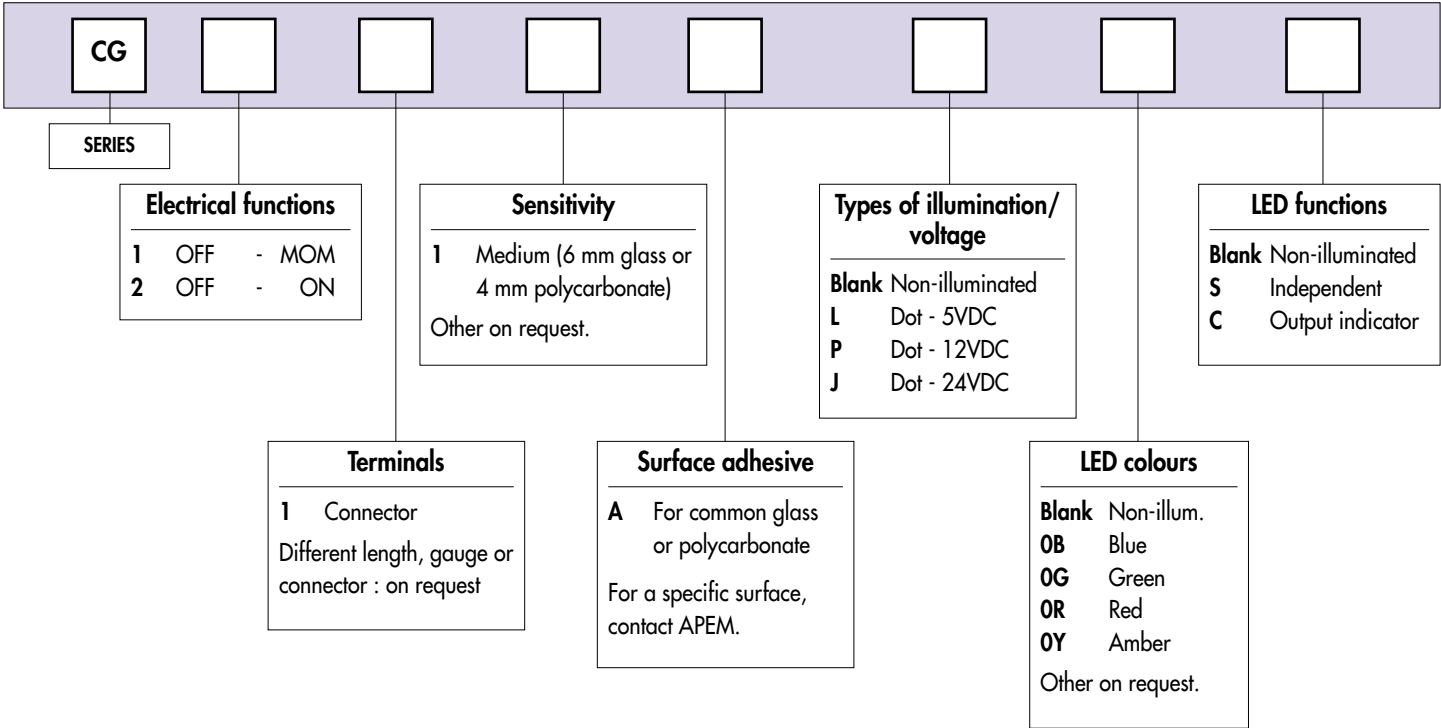


This switch should not be used in safety applications.

# CG series

## Capacitive switches for underlay applications

Overview



NOTICE : please note that not all combinations of above numbers are available. Refer to the following pages for further information.



**Packaging unit** : 20 pieces

**Dimensions** : first dimensions are in mm while inches are shown as bracketed numbers.

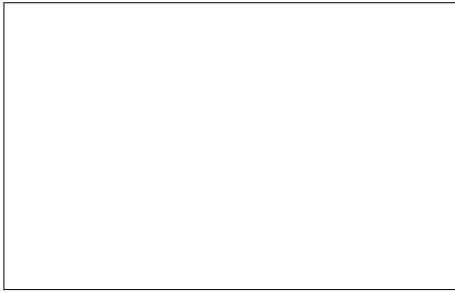
**Tolerance** : The general tolerance for dimensions in this brochure is  $\pm 0,3$  (.012).

Dimensions, specifications and data shown in this brochure are subject to change without notice.

# CG series

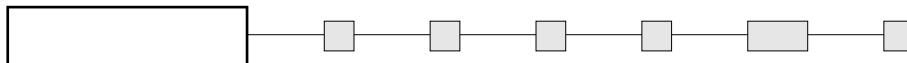
## Capacitive switches for underlay applications


*Illuminated or non-illuminated*



- Momentary or latching

### MODEL STRUCTURE



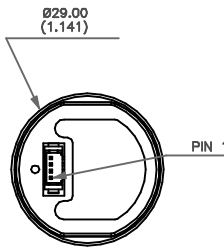
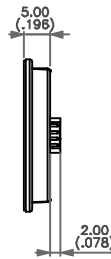
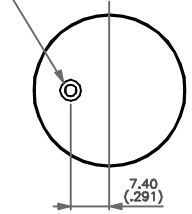


Momentary  
**CG1**

Latching  
**CG2**

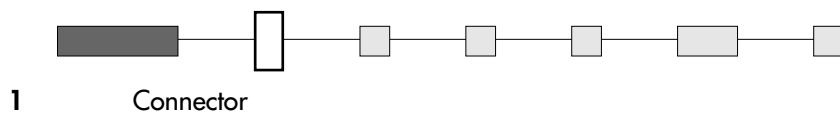
OFF - ON

OFF - ON

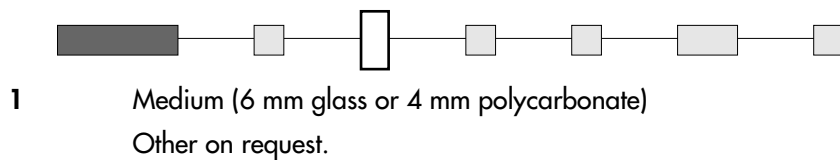




For connector wiring, see "Specifications" page.

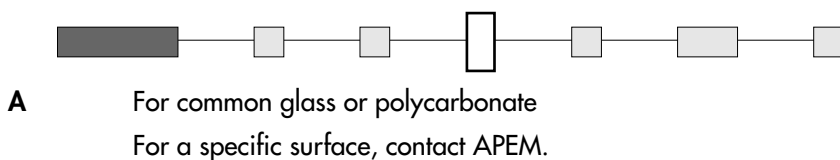
### TERMINALS



### SENSITIVITY



### SURFACE ADHESIVE

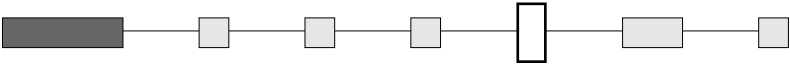


# CG series

## Capacitive switches for underlay applications

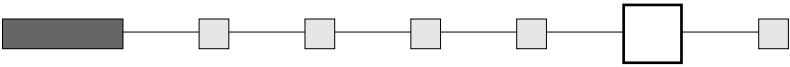
Options

### TYPE OF ILLUMINATION



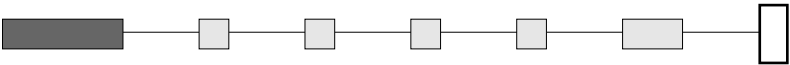
- Blank** Non-illuminated
- L** Dot - 5VDC
- P** Dot - 12VDC
- J** Dot - 24VDC

### LED COLOURS



- Blank** Non-illuminated
  - OB** Blue
  - OG** Green
  - OR** Red
  - OY** Amber
- Other on request.

### LED FUNCTION



- Blank** Non-illuminated
- S** Independent
- C** Output indicator