

CG series

Capacitive switches for underlay applications

Distinctive features

UG1410A

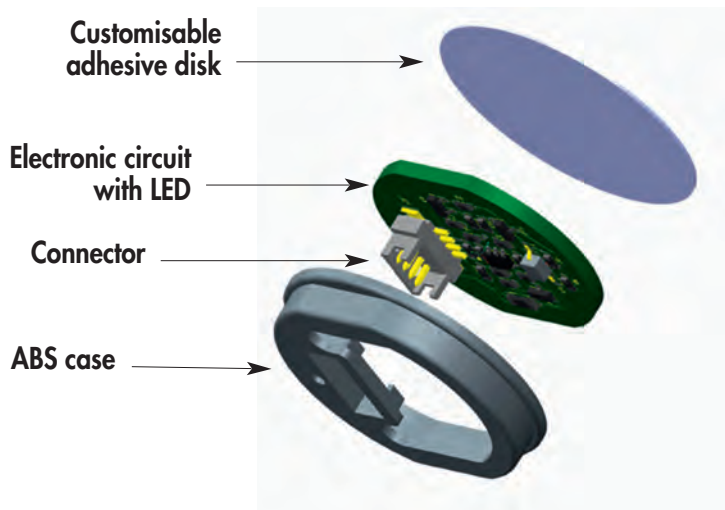
And your panel becomes active !

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.

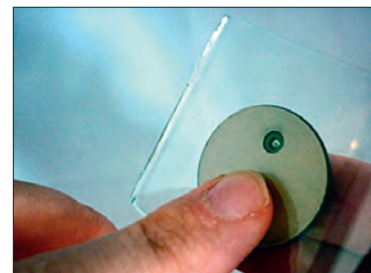
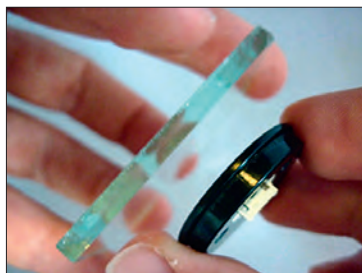
- 50 million cycles**
No moving mechanical parts to wear out.
- Advantages of under-panel mounting**
 - Robustness
 - Sealing
 - Easy to clean flat surface
 - Easy panel marking
- Custom disk colours and marking**
Marking flexibility based on digital printing.



* For other non conductive materials, consult APEM.



Mounting of a CG switch



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

The company reserves the right to change specifications without notice.



- ❑ **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**

ENVIRONMENTAL SPECIFICATIONS

- Triggered by flowing water
- Temperature range : -40°C to +70°C
- Adhesive and connector resistant to vibrations

MATERIALS

- Case : ABS
- Sealing : epoxy

ELECTRICAL AND GENERAL SPECIFICATIONS

- Supply voltage : 5VDC, 12VDC or 24VDC
- 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
- Output type : NPN

Wiring for mating connector Harwin M30-1100400

- Pin 1 : output
- Pin 2 : GND
- Pin 3 : +LED
- Pin 4 : +VCC

Mating harness (connector + wires) available : see «Accessories» at the end of the series.

Wiring diagrams

	Non-illuminated	Illuminated 1 LED	
		Output indicator	Independent
OFF-ON OFF - MOM			

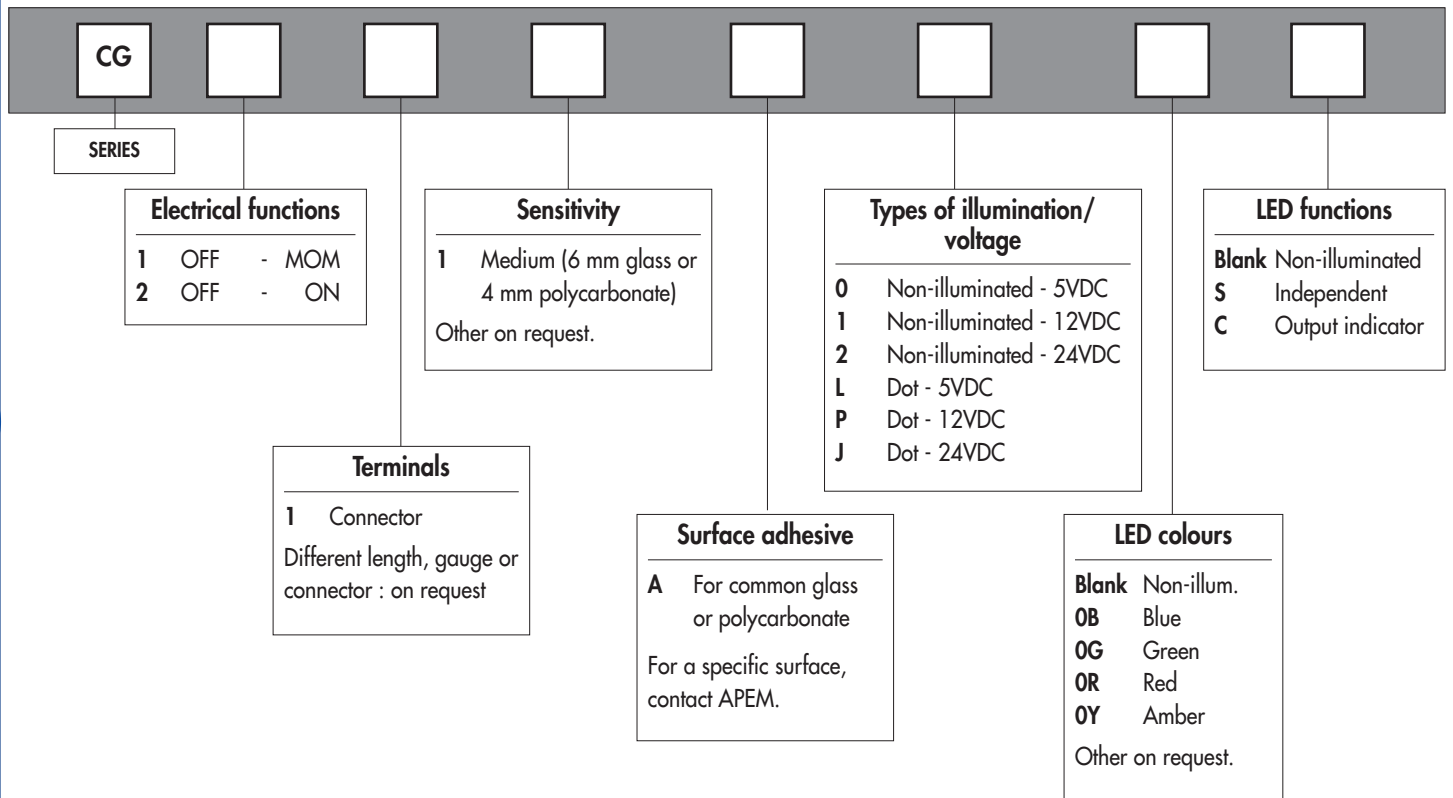


This switch should not be used in safety applications.

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Overview



B2

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



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

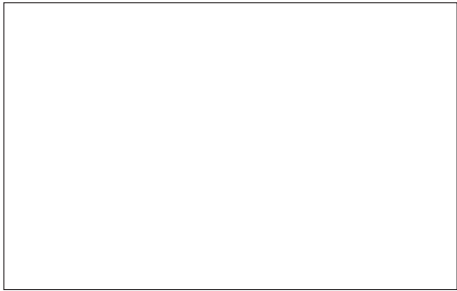


Packaging unit : 20 pieces

CG series

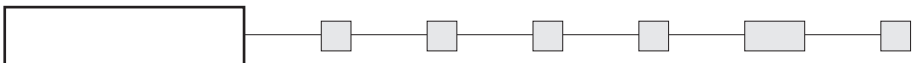
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Illuminated or non-illuminated




- Momentary or latching

MODEL STRUCTURE



B2

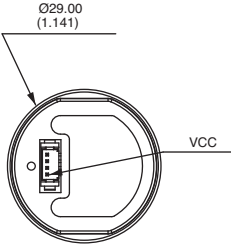
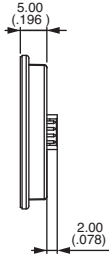
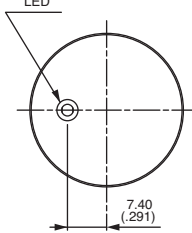


Momentary
CG1

Latching
CG2

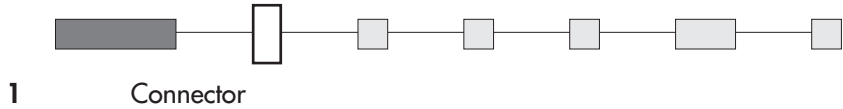
OFF - ON

OFF - ON

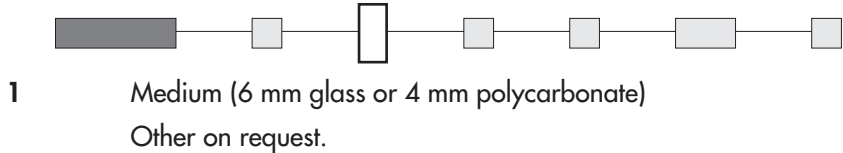




For connector wiring, see "Specifications" page.

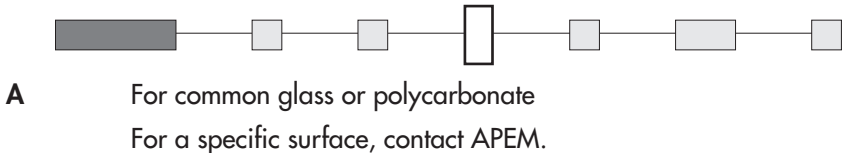
TERMINALS



SENSITIVITY



SURFACE ADHESIVE

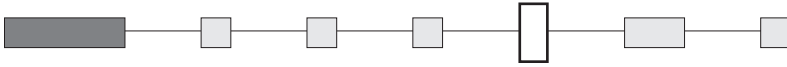


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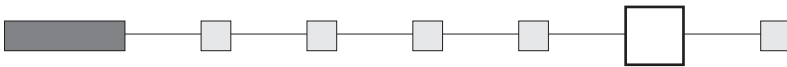
Options

TYPE OF ILLUMINATION



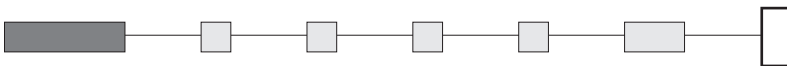
- 0** Non-illuminated - 5VDC
- 1** Non-illuminated - 12VDC
- 2** Non-illuminated - 24VDC
- L** Dot - 5VDC
- P** Dot - 12VDC
- J** Dot - 24VDC

LED COLOURS



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

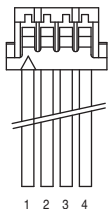
LED FUNCTION



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

ACCESSORIES

Order separately.



U7120

Mating harness for independent LED
(version S)



U7040

Mating harness for all other versions

Connector : Harwin M30-1100400
Wires : AWG28, 150 mm