

CG series

Capacitive switches for underlay applications



DISTINCTIVE FEATURES

Activated by the touch of a finger

50 million cycles

Auto-calibration function

Mounting under non-conductive surfaces

Mating harness on request



ENVIRONMENTAL SPECIFICATIONS

- Triggered by flowing water
- Temperature range : -40 °C to +70 °C (-40 °F to +158 °F)
- Adhesive and connector resistant to vibrations



ELECTRICAL AND GENERAL SPECIFICATIONS

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



MATERIALS

- Case : ABS
- Sealing : epoxy

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

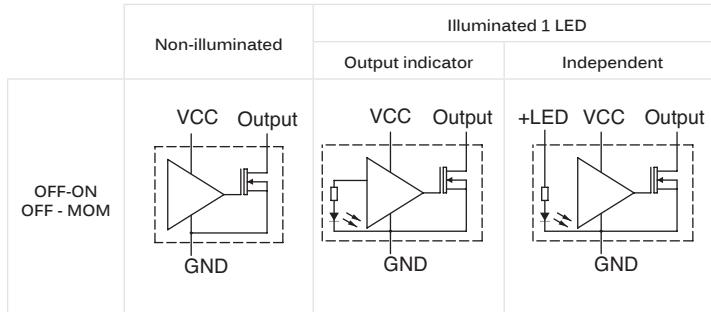
The company reserves the right to change specifications without notice.

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WIRING DIAGRAMS



WIRING FOR MATING CONNECTOR HARWIN M30-1100400

- Pin 1 : output
- Pin 2 : GND
- Pin 3 : +LED
- Pin 4 : +VCC
- Mating harness (connector + wires) available on request.



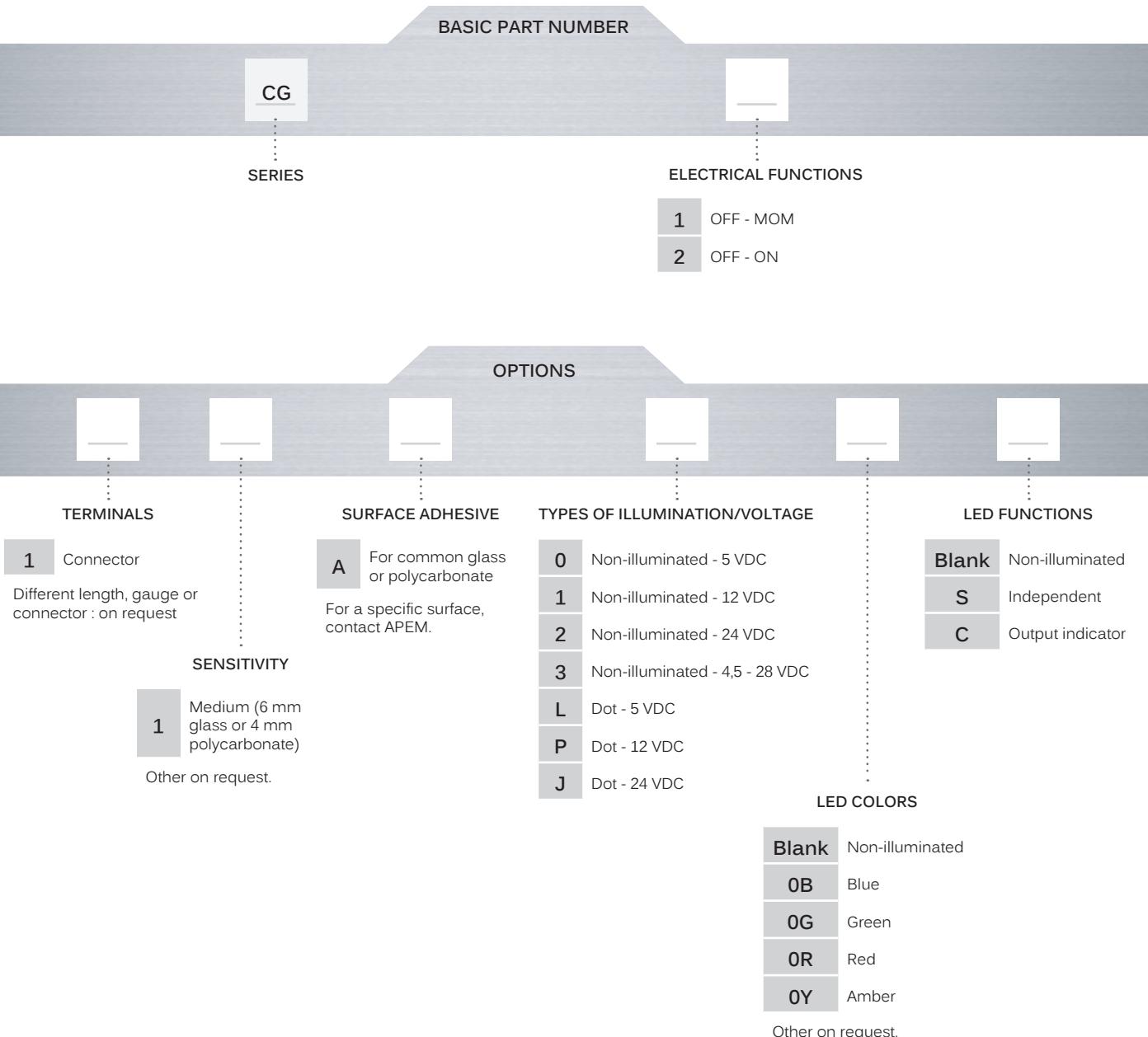
This switch should not be used in safety applications.

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BUILD YOUR PART NUMBER



ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

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

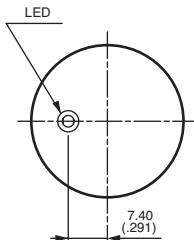
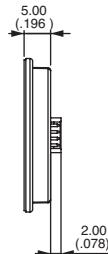
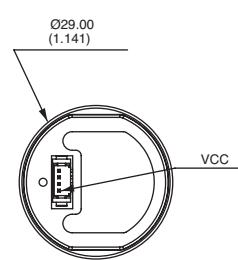
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CONNECTOR OUTPUT



Momentary	CG1	OFF	ON
Latching	CG2	OFF	ON



For connector wiring, see specifications.

TERMINALS



1 Connector

SENSITIVITY



1 Medium (6 mm glass or 4 mm polycarbonate)

Other on request.

SURFACE ADHESIVE



A For common glass or polycarbonate

For a specific surface, contact APEM.

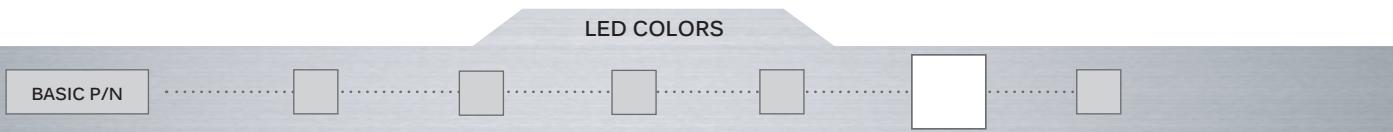
TYPE OF ILLUMINATION



- 0 Non-illuminated - 5 VDC
- 1 Non-illuminated - 12 VDC
- 2 Non-illuminated - 24 VDC
- 3 Non-illuminated - 4,5 - 28 VDC - momentary version only
- L Dot - 5 VDC
- P Dot - 12 VDC
- J Dot - 24 VDC

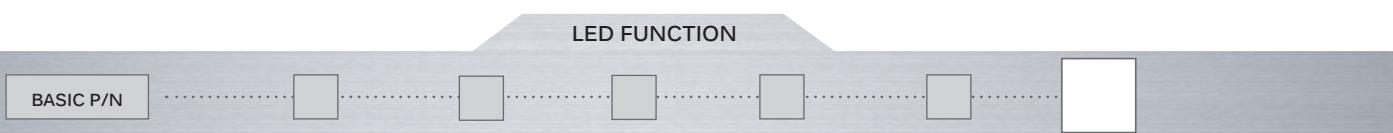
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Blank	Non-illuminated
0B	Blue
0G	Green
0R	Red
0Y	Amber

Other on request.



Blank	Non-illuminated
S	Independent
C	Output indicator

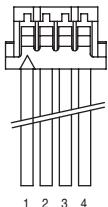
ACCESSORIES

Order separately.

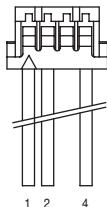
U7120 Mating harness for independent LED (version S)
 U7040 Mating harness for all other versions

Connector : Harwin M30-1100400

Wires : AWG28, 150 mm



U7120



U7040

EXAMPLE OF CUSTOM SWITCH



- Flying leads with connector
- Customisable wires lenght
- Easy mounting
- Epoxy wire terminal : high sealing level

Mouser Electronics

Authorized Distributor

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[CG111A1](#)