

Features/Benefits

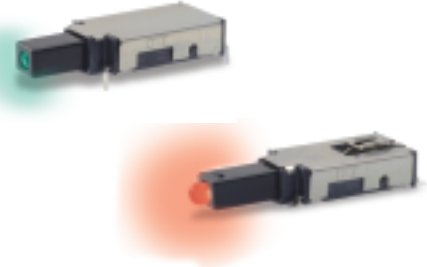
- SPDT (N.O. & N.C.)
- Low height above PCB
- Reliable self-cleaning contact
- Surface-mount or thru-hole PCB
- Standard or custom actuator
- Central LED illumination
- Latching or Momentary
- Long travel. Smooth feel
- RoHS compliant and compatible

Typical Applications

- Telecom network equipment
- Automotive electronics
- Consumer electronics
- Computer, server, modem, data storage
- Professional instrumentation, medical

NEW!

Patent Number
6,974,924 B2



Materials

FIXED CONTACTS AND TERMINALS: Stainless steel, silver plated with gold flash (STD.)
MOVABLE CONTACTS: Copper alloy, silver plated with gold flash (STD.)
BASE: Glass filled LCP (UL94V-0)
ACTUATOR: Glass filled nylon 4/6 (UL94V-0)
COVER: Stainless steel

Electrical

MAXIMUM POWER: 3.5 VA
MIN./MAX. VOLTAGE: 20 mV – 50 VDC
MIN./MAX. CURRENT: 0.01 mA – 250 mA
DIELECTRIC STRENGTH: ≥ 250 Vrms
CONTACT RESISTANCE: ≤ 50 m Ω
INSULATION RESISTANCE: $\geq 10^9$ Ω
BOUNCE TIME: ≤ 1 ms
LED SPECIFICATIONS: See page A-5

Mechanical

OPERATING FORCE: 2.5 N at Full Travel
SWITCHING TRAVEL: .067" (1.7 mm)
LATCH TRAVEL: .131" (3.6 mm)
FULL TRAVEL: .200" (5.1 mm)

Operating Environment

OPERATING TEMPERATURE: -40°C TO 85°C.
STORAGE TEMPERATURE: -40°C TO 85°C.
RELATIVE HUMIDITY: 90% R.H. @ 85°C.
OPERATING LIFE: 30,000 Cycles.
VIBRATION: Per EIA 186-E Methods 7 & 8
MECHANICAL SHOCK: Per EIA 186-E Method 12.
OVERLOAD: Withstands 40 N for 1 minute without damage

Process Environment

SOLDERABILITY: According to Mil STD 202F Method 208D or EIA RS-186E Method 9.
LEAD FREE PROCESS COMPATIBLE: 260°C peak, 10 seconds Max. above 250° C.
WASHING PROCESS: No clean process compatible (SMT)
Bottom wash compatible (Thru-hole)
SHEAR TEST (SWITCH/PCB): > 40 N

Packaging

"SA" Terminal Style SMT: Tape and reel per EIA 481-2 (450/reel)
"TH" Terminal Style PC: Tray (60/tray)

NOTE: Any models supplied with Q, contact material are RoHS compliant.
For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

NOTE: Specifications and materials listed above are for switches with standard options.
For information on specific and custom switches, please contact Customer Service.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box.

Designation _____	Switch Function _____	Terminal Style _____	Contact Material* _____	Illumination _____	Actuator Style** _____
ELUM ELUM Series	OA Momentary EE Latching (push-push)	TH Right Angle, PC thru-hole SA Right Angle, surface mount	Q Silver with gold flash	(NONE) Models without illumination 1 LED White 2 LED Bi-color – Red (Green) 3 LED Red 5 LED Amber 6 LED Green 7 LED Blue 8 LED Bi-Color – Amber (Green)	C02 Black without window C12 Black with window C22 Black with window and snap feature for custom actuators

* Other plating options available, please contact Customer Service.
** Custom actuators available, please contact Customer Service.



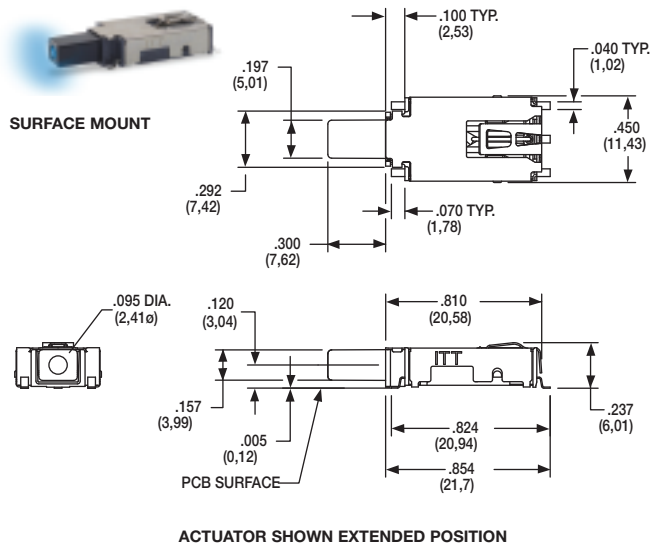
A

Pushbutton

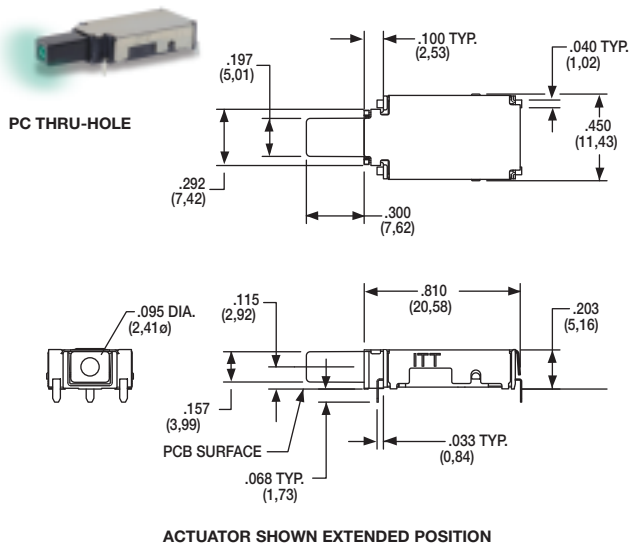
C&K ELUM™ Series Right Angle Illuminated Latching Pushbutton

STANDARD OPTIONS

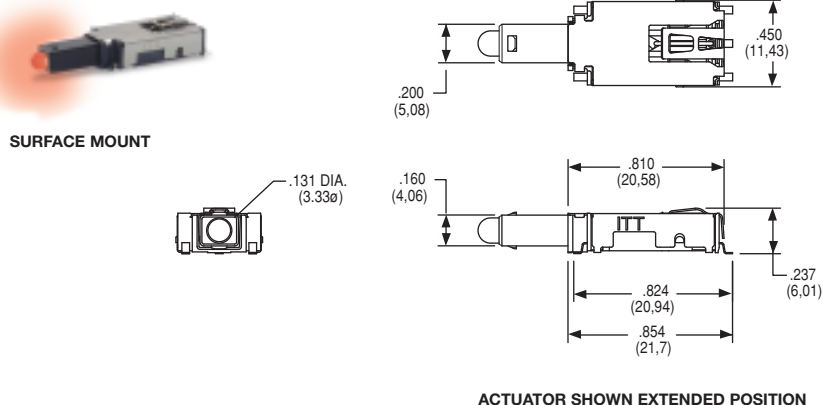
ELUMEESAQ7C12



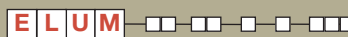
ELUMOATHQ6C12



ELUMEESAQ3C22



DESIGNATION



ELUM ELUM SERIES, Illuminated Latching Pushbutton

SWITCH FUNCTION



OPTION CODE	NO. OF POLES	SWITCH FUNCTION	CONNECTED TERMINALS	SWITCH FUNCTION	CONNECTED TERMINALS	SCHEMATIC
OA	SP Momentary	ON	3 - 4	ON (Mom.)	3 - 2	NO 2 3 C 4 NC SPDT 5 1 + Anode - Cathode
EE	SP Latching (Push-Push)	ON	3 - 4	ON	3 - 2	

For SPST N.O. function, only terminals 3 & 2 are used.
For SPST N.C. function, only terminals 3 & 4 are used.
Circuit: Make before break

LED pins 1 & 5 are independent of switch function.



Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

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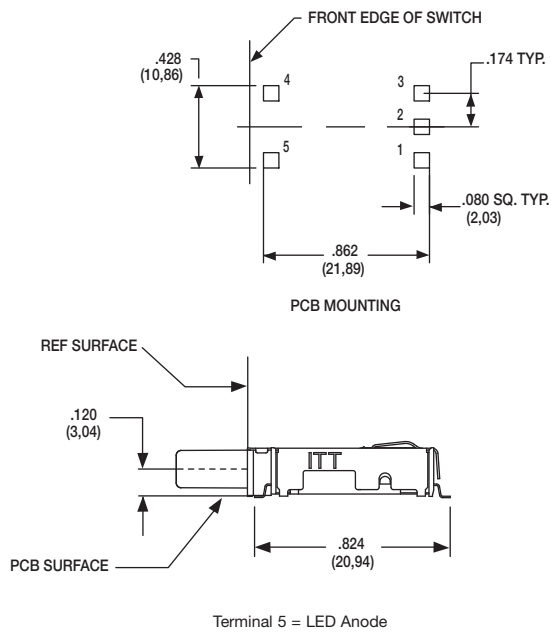
C&K ELUM™ Series Right Angle Illuminated Latching Pushbutton



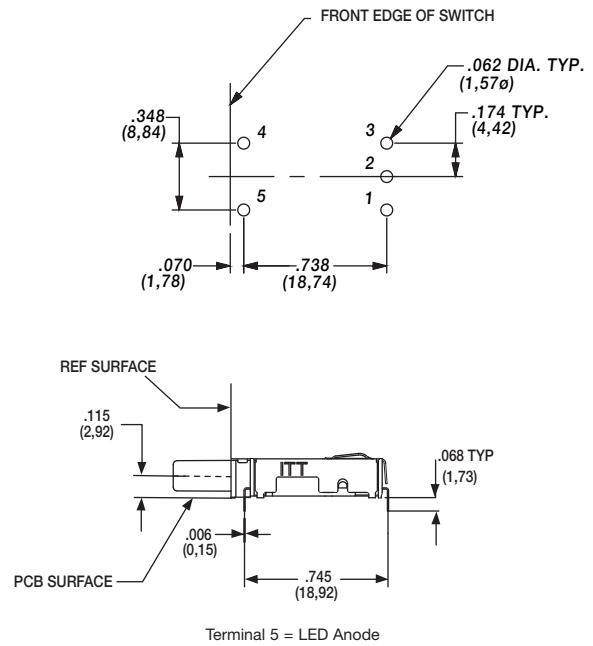
A

Pushbutton

SA RIGHT ANGLE, SURFACE MOUNT



TH RIGHT ANGLE, PC THRU-HOLE



CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	YES	YES	SILVER WITH GOLD FLASH	SILVER WITH GOLD FLASH	250 mA

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

FIXED CONTACTS AND TERMINALS: Stainless steel, silver plated with gold flash

MOVABLE CONTACTS: Copper alloy, silver plated with gold flash

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ILLUMINATION

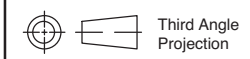
OPTION CODE	ILLUMINATION TYPE	TYPICAL INTENSITY* MIN MAX		PEAK WAVELENGTH	VIEWING ANGLE
		(mcd)		(nm)	
(NONE)	Model without illumination	N/A		N/A	N/A
1	LED Super White	4,000	5,000	N/A	30°
2	LED Bi-Color – Red (Green)	10	20	635/565	60°
3	LED Red	4	8	700	60°
5	LED Amber	35	50	610	60°
6	LED Green	35	50	565	60°
7	LED Super Blue	800	1,500	470	22°
8	LED Bi-Color – Amber (Green)	10	10	585/565	60°

*LED FORWARD CURRENT: 20 mA

LED FORWARD VOLTAGE: 2.0 V TYP.

LED REVERSE VOLTAGE: 5.0 V MAX

* For information on specific and custom LED, please contact Customer Service.



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Specifications and dimensions subject to change



A

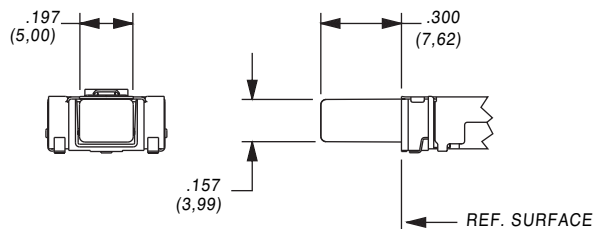
Pushbutton

C&K ELUM™ Series Right Angle Illuminated Latching Pushbutton

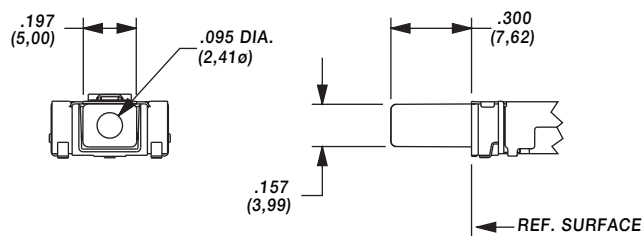
ACTUATOR STYLE*



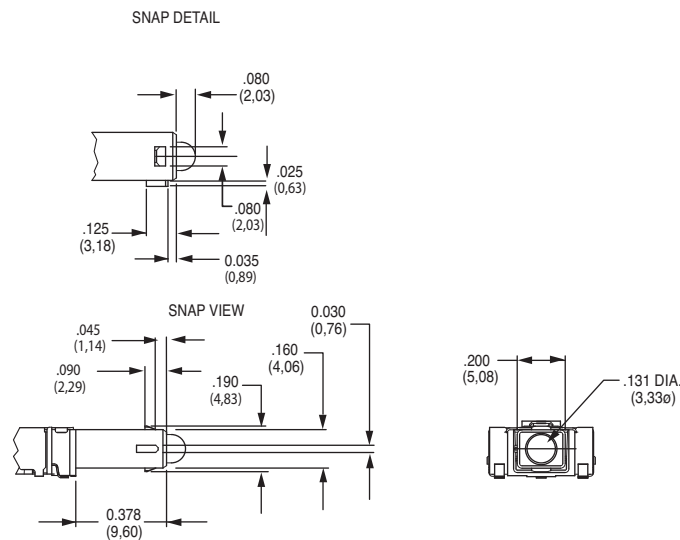
C02 BLACK WITHOUT WINDOW



C12 BLACK WITH WINDOW

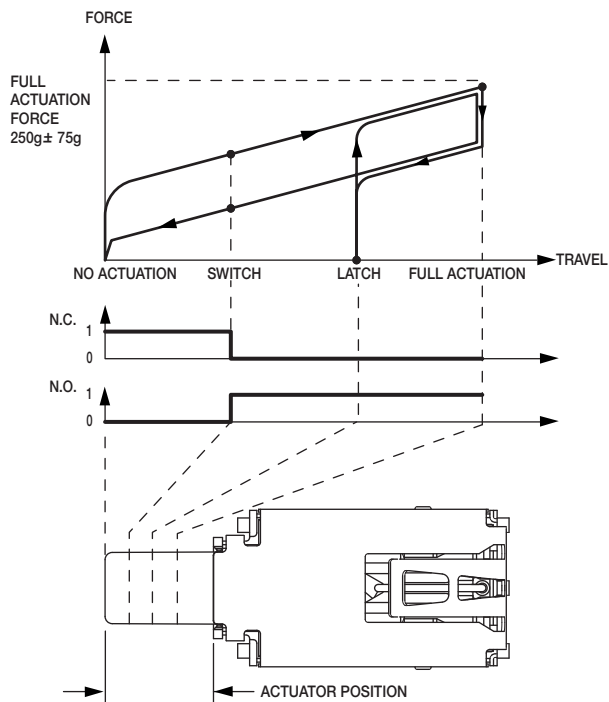


C22 BLACK WITH WINDOW AND SNAP FEATURE TO ACCEPT CUSTOM CAP



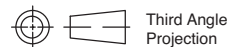
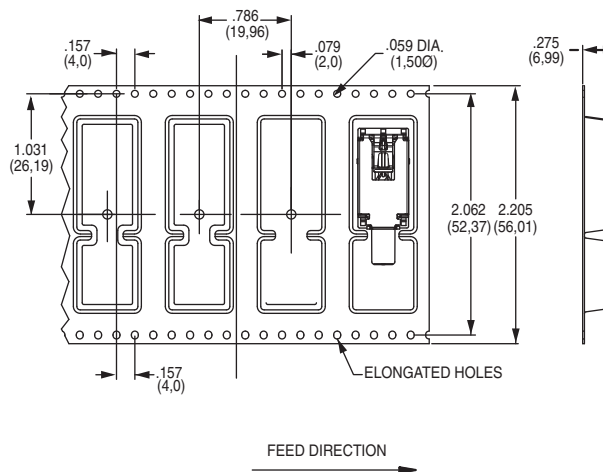
* Custom actuators available, please contact Customer Service.

FORCE TRAVEL DIAGRAM



	ACTUATOR POSITION	
NO ACTUATION	.300 ± .020	7,6 ± 0.5mm
SWITCH	.233 ± .020	5,9 ± 0.5mm
LATCH	.169 ± .020	4,3 ± 0.5mm
FULL ACTUATION	.100 ± .020	2,5 ± 0.5mm

TAPE & REEL



Third Angle
Projection

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