Features/Benefits

- Excellent tactile feel
- Wide choice of LED colors, travel and actuator forces
- High reliability / long life
- Sealed version available
- Designed for low-level switching
- Double stroke version available
- Detector version available

Typical Applications

- Automotive
- Off-road transportation
- Industrial electronics
- Computers & network equipment



Construction:

FUNCTION: momentary

DISTANCE BETWEEN BUTTON CENTERS: min. 11 (0.433) K12C = 13 (0.512)

TERMINALS: PC pins, tinned

MOUNTING: Locating pins; K12D, K12G and K12P additionally

with snap-in housing

Mechanical

TOTAL TRAVEL: 1 mm, 1,5 mm, 2 mm SWITCHING TRAVEL: 0,6 mm*

OPERATING FORCE: 1.5 N OD without snap-point as detector switch, 2.5 N, 3.5 N, 5 N, 3.5/7 N, 6/12 N. Additional operating force 7N, 9N and 20N, available on request. PROTECTION CLASS: K12C IP 67 (dust tight, protected against the effects of immersion in water; other versions IP 40)

Electrical

SWITCHING POWER MIN./MAX.: 0.02mW/3 W SWITCHING VOLTAGE MIN./MAX.: 2 V DC / 30 V DC SWITCHING CURRENT MIN./MAX.: 10 μ A /100 mA DIELECTRIC STRENGTH (50 Hz, 1 min): \geq 500 V

OPERATING LIFE with max. switching power: ≥ 10^s operations K12G & K12GO; operating life of second switch 5 x 10st operations, operating life K12C and version with more than 6N (7N, 9N 20N) please consult factory.

CONTACT RESISTANCE: Initial $\leq 50~\text{m}\Omega$ INSULATION RESISTANCE: $\geq 10^{10}\,\Omega$ BOUNCE TIME: $\leq 1~\text{ms}$

BOUNCE HIVIE. STILLS

Operating speed 400 mm/s (15.75/s)

Environmental

OPERATING TEMPERATURE: -40°C to 85°C. STORAGE TEMPERATURE: -40°C to 95°C.

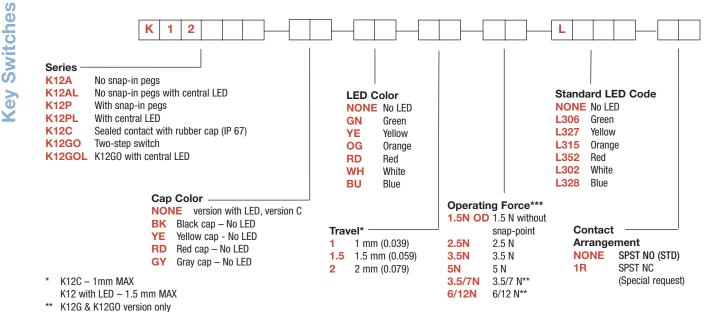
Process

SOLDERABILITY:

Max. soldering time and temperature: 5 s at 260°C

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.





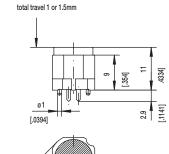
Additional operating force: 7N, 9N available on request

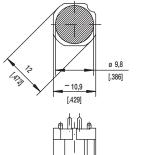
Dimensions are shown: mm (inch) Specifications and dimensions subject to change

^{*} Additional switching travel (with pre-travel) available by request.

SERIES _____

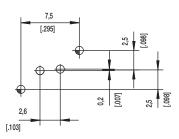
K12A without snap in





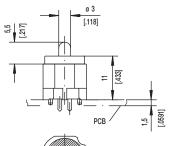


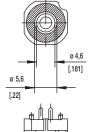
PCB LAYOUT, MOUNTING SIDE





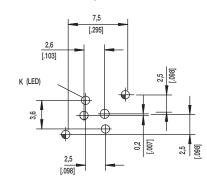
K12AL





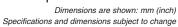


PCB LAYOUT, MOUNTING SIDE



	\Phi	1,1 ^{+0,05}	2x	2x	center hole		
	⊕ 0,9 ±0,05			2x	LED	ø0,5 (.020)	Sn
			2x	2x	switch	0,7x0,2 (.028x.081)	Sn
	Hole	Ø	Without	with LED	Discription	Terminal Section	Surface



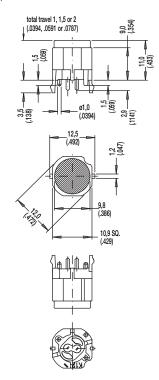




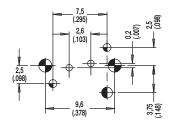
High Performance Key Switches

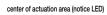
SERIES -----

K12P with snap in



PCB LAYOUT, MOUNTING SIDE





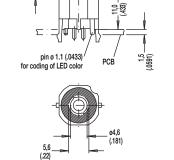


Hole	Ø	Without LED	Description	Terminal Section	Surface
•	1,7 (.069)	2x	snap-in		
•	1,6 (.062)	1x	coding hole (L,M,N)		
+	1,1 (.043)	2x	center hole		Sn
+	0,9 (.035)	2x	switch	0.7 x 0.2 (.028 x .081)	Sn

K₁₂PL



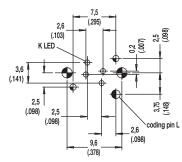




total travel 1 or 1,5 (.0394 or .0591)



PCB LAYOUT, MOUNTING SIDE



center of actuation area (notice LED)

Hole	Ø	Without LED	Description	Terminal Section	Surface
•	1,7 (.069)	2x	snap-in		
•	1,6 (.062)	1x	coding hole (L,M,N)		
•	1,1 (.043)	2x	center hole		Sn
+	0,9 (.035)	2x	LED	m0.5 (.020)	Sn
		2x	switch	0.7 x 0.2 (.028 x .081)	

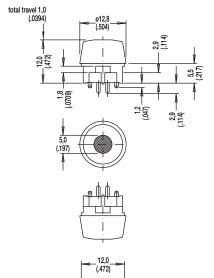


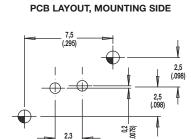
Dimensions are shown: mm (inch) Specifications and dimensions subject to change

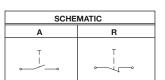


K12C SEALED CONTACT WITH RUBBER CAP (IP 67)









actuation area

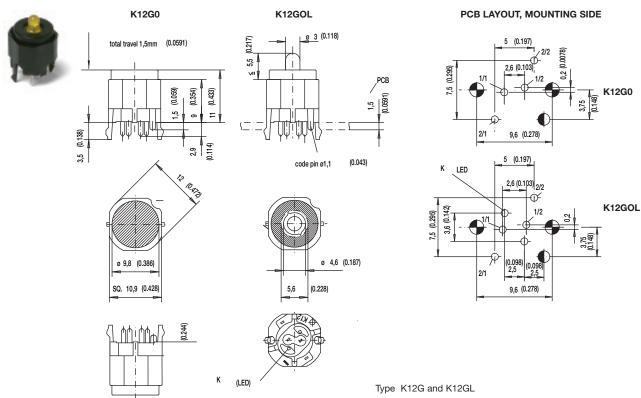
Hole	Ø	Without LED	Description	Terminal Section	Surface
•	1,1 (.043) 0,9 (.035)	2x 2x	center hole switch	0.7 x 0.2(.0275 x .0787)	Sn

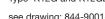


High Performance Key Switches

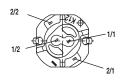
SERIES ————————

K12GO K12GOL





see drawing: 844-9001-601 or 844-900-1601 with LED holder by side





SCHEMATIC		
K12G	K12GL	
1/1 0 1/2 2/1 2/12	1/1 - 1/2 2/1 - 2/2	

Hole	Ø	Without LED	With LED	Description	Terminal Section	Surface
•	1,7 (.069)	2x	2x	snap-in		
•	1,6 (.062)	1x	1x	code		
			2x	2 LED		Sn
⊕	0,9		2x	LED	m0.5 (.020)	Sn
*	(.035)	2x	2x	switch 2	0.7 x 0.3 (.028 x .012)	Sn
		2x	2x	switch 1	0.7 x 0.2 (.028 x .081)	Sn



Key Switches



High Performance Key Switches

OPTION CODE	COLOR
NONE	Version with LED
BK	Black - no LED
YE	Yellow - no LED
RD	Red - no LED
GY	Gray - no LED

LED COLOR ----

OPTION CODE	COLOR
NONE	Models without LED
GN	Green
YE	Yellow
OG	Orange
RD	Red
WH	White
BU	Blue

STANDARD LED CODE	COLOR
NONE	Models without LED
L306	Green
L327	Yellow
L315	Orange
L352	Red
L302	White
L328	Blue

TRAVEL -------

1 mm **1.5** 1.5 mm 2 mm

OPERATING FORCE

