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
- Joysticks



Construction:

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

TERMINALS: PC pins, tinned

MOUNTING: Locating pins; 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)

Packaging

Bulk in boxes of 250 pieces (version C or GO) or 300 pieces (version A, AL, P or PL)

Electrical

SWITCHING POWER MIN./MAX.: 0.02mW/3 W SWITCHING VOLTAGE MIN./MAX.: 2 V DC / 30 V DC SWITCHING CURRENT MIN./MAX.: 10 mA /100 mA DIELECTRIC STRENGTH (50 Hz, 1 min): ≥ 500 V OPERATING LIFE with max. switching power: ≥ 10⁶ operations K12G & K12GO; operating life of second switch 5 x 104 operations, operating life K12C and version with more than 6N (7N, 9N 20N) please consult factory.

CONTACT RESISTANCE: Initial ≤ 50 mΩ INSULATION RESISTANCE: ≥ 1010 Ω

BOUNCE TIME: ≤ 1 ms

Operating speed 100 mm/s (3.94/s)

Environmental

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

Process

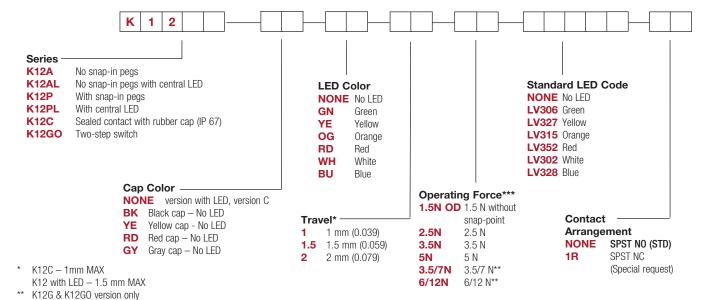
SOLDERABILITY:

Wave soldering, compatible with lead free soldering profile Hand soldering, 350°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.

Note: Some of the configurations may not be available or could require some development.





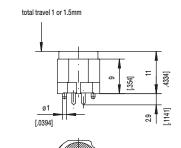
Dimensions are shown mm Specifications and dimensions subject to change

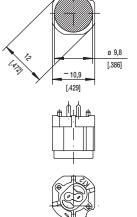
Additional operating force: 7N, 9N available on request

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

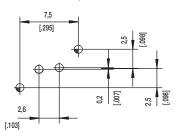
SERIES ----

K12A without snap in





PCB LAYOUT, MOUNTING SIDE

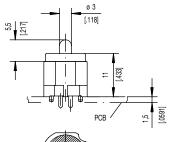


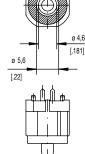


K12AL



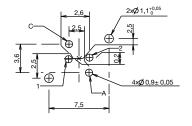
Key Switches





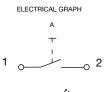


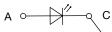
PCB LAYOUT, MOUNTING SIDE



D-10







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

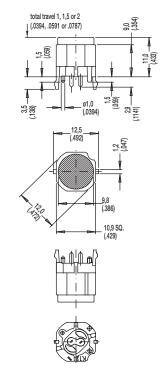


Dimensions are shown: mm Specifications and dimensions subject to change

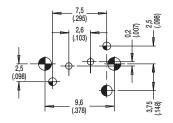


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K12P with snap in



PCB LAYOUT, MOUNTING SIDE

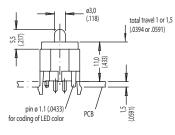






Hole	Ø	Without LED	Description	Terminal Section	Surface
•	1,7 (.069)	2x	snap-in		
•	1,6 (.062)	1x	coding hole (L,M,N)		
•	1,1 (.043)	2x	center hole		Sn
+	0,9 (.035)	2x	switch	0.7 x 0.2 (.028 x .081)	Sn

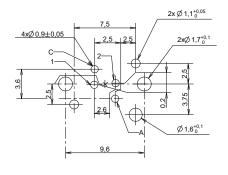
K12PL

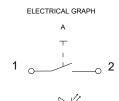






PCB LAYOUT, MOUNTING SIDE







Y	7.1	

Key Switches

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)	



First Angle Projection

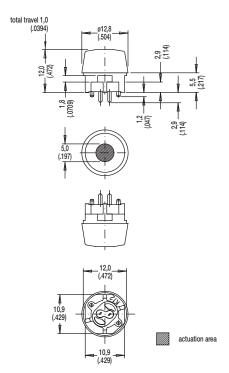
Dimensions are shown: mm Specifications and dimensions subject to change



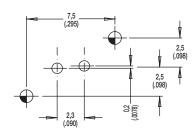
SERIES ----

K12C SEALED CONTACT WITH RUBBER CAP (IP 67)





PCB LAYOUT, MOUNTING SIDE







SCHEMATIC		
Α	R	
, T	T	

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





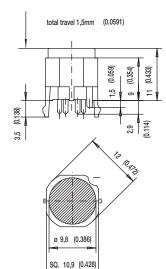
PCB LAYOUT, MOUNTING SIDE

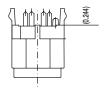
9,6 (0.278)

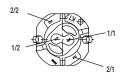
SERIES _____

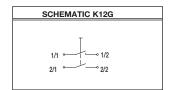
K12GO





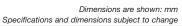






Hole	Ø	Without LED	Description	Terminal Section	Surface
•	1,7 (.069)	2x	snap-in		
•	1,6 (.062)	1x	code		
+	0,9		LED	m0.5 (.020)	Sn
	(.035)	2x 2x	switch 2 switch 1	0.7 x 0.3 (.028 x .012) 0.7 x 0.2 (.028 x .081)	Sn Sn







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

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
LV306	Green
LV327	Yellow
LV315	Orange
LV352	Red
LV302	White
LV328	Blue

TRAVEL -----

1 1 mm 1.5 1.5 mm

2 mm

Key Switches

OPERATING FORCE

OPTION CODE	OPERATING FORCE
1.5N OD	1.5 N,150g without snap-point
2.5N	2.5 N, 250g
3.5N	3.5 N, 350g
5N	5 N, 500g
3.5/7N	3.5/7 N, 350/700g
6/12N	6/12 N, 600-1200g

CONTACT ARRANGEMENT OPTION

1R SPST NC (SPECIAL REQUEST FOR NORMALLY CLOSED OPTION)



Dimensions are shown: mm Specifications and dimensions subject to change



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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

K12ABK15N K12ABK1.52.5N K12C BK 1 2.5N K12P BK 1.5 5N K12P BK 2 2.5N K12ABK11.5N0D

K12PBK1.51.5N0D K12PBK1.51.5N0D1R K12PBK1.53.5N K12PBK11.5N K12PBK13.5N1R K12PBK15N1R

K12PLWH1.55NL302 K12ABK12.5N1R K12ABK15N1R K12AGY15N K12ARD12.5N K12ARD15N K12ARD1.52.5N

K12AYE12.5N K12AYE15N K12AYE15N K12AYE1.52.5N K12G0BK1.53.57N K12G0BK1.5612N K12PBK12.5N

K12PBK21.5N0D K12PBK1.59N K12A BK 1.5 5N K12PYE25N K12PLGN15NLV306 K12ALWH1.55NLV302

K12PLGN1.52.5NLV306 K12ALRD15NLV352 K12ALGN15NLV306 K12ALYE15NLV327 K12PLWH1.35N.5LV302

K12PLWH15NLV302 K12ALGN1.55NLV306 K12PLUG1.55NLV315 K12PLBU12.5NLV328 K12ALRD1.39N.5LV352

K12PLRD15NLV352 K12ALBU15NLV328 K12PLWH1.53.5NLV302 K12PLGN1.55NLV306 K12PLWH1.55NLV302

K12PLRD1.55NLV352 K12ALBU15NLV315 K12PLWH1.53.5NLV307 K12PLGN1.55NLV306 K12PLWH1.55NLV302

K12PLRD1.55NLV357 K12ABK1.55N K12PBK22.5N K12PBK23.5N K12PBK25N K12CBK12.5N K12CBK12.5N K12CBK12.5N K12PBK15N K12PBK15N K12PBK22.5N