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): \geq 500 V

OPERATING LIFE

For all K12 versions up to 6N with max. switching power: ≥ 10⁶ operations

For all K12/K12C versions from 7N to 20N with max. switching power: please consult factory

For K12G & K12GO with max. switching power: $\geq 5~x~10^{\scriptscriptstyle 4}$ operations

CONTACT RESISTANCE: Initial $\,\leq 50~m\Omega$ INSULATION RESISTANCE: $\geq 10^{10}\,\Omega$

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

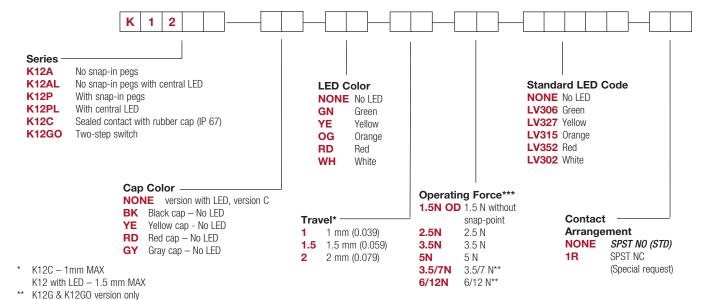
Process

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

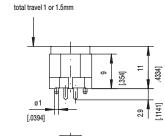
*** Additional operating force: 7N, 9N available on request

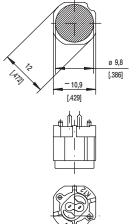


^{*} Additional switching travel (with pre-travel) available by request.

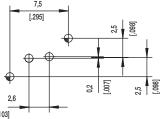
SERIES ----

K12A without snap in





PCB LAYOUT, MOUNTING SIDE [.295]

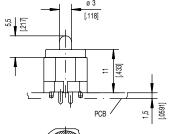


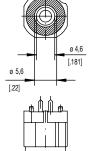


K12AL



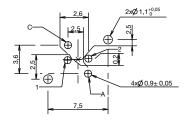
Key Switches



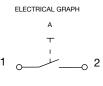


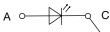


PCB LAYOUT, MOUNTING SIDE







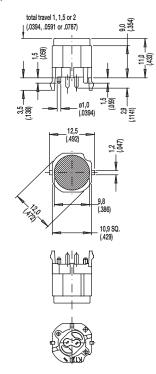


+	1,1 ^{+0,05}	2x	2x	center hole		
+	0,9 ±0,05		2x	LED	ø0,5 (.020)	Sn
		2x	2x	switch	0,7x0,2 (.028x.081)	Sn
Hole	Ø	Without	with LED	Description	Terminal Section	Surface

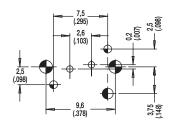








PCB LAYOUT, MOUNTING SIDE

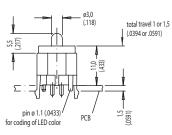






Hole	Ø	Without LED	Description	Terminal Section	Surface
•	1,7 (.069)	2x	snap-in		
•	1,6 (.062)	1x	coding hole (L,M,N)		
-	1,1 (.043)	2x	center hole		Sn
+	0,9 (.035)	2x	switch	0.7 x 0.2 (.028 x .081)	Sn

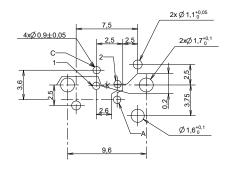
K12PL



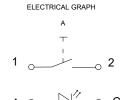




PCB LAYOUT, MOUNTING SIDE



D-9





Y	gal.

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

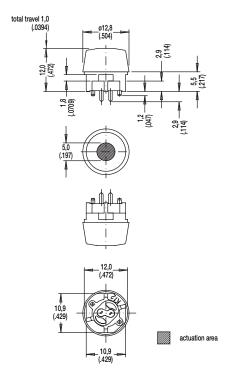


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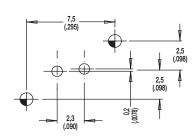
SERIES -----

K12C SEALED CONTACT WITH RUBBER CAP (IP 67)





PCB LAYOUT, MOUNTING SIDE







SCHEMATIC				
Α	R			
	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



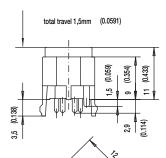


PCB LAYOUT, MOUNTING SIDE

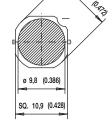
9,6 (0.278)

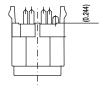
K12GO

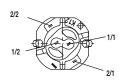


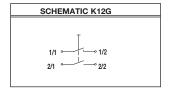


SERIES









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	switch 2	0.7 x 0.3 (.028 x .012)	Sn
		2x	switch 1	0.7 x 0.2 (.028 x .081)	Sn





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

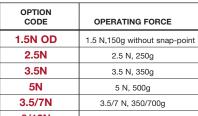
STANDARD LED CODE	COLOR
NONE	Models without LED
LV306	Green
LV327	Yellow
LV315	Orange
LV352	Red
LV302	White

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



14 Jan 22

Mouser Electronics

Authorized Distributor

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

C&K Switches:

K12GO NT 1.5 3.5-7N K12C 1 5N K12P BK 1 5N K12ABK21.5N K12ABK22.5N K12ABK23.5N K12ALBU15NL328 K12ALGN1.55NL306 K12ALWH1.55NL302 K12G0BK248.5N.5130CN K12G0LGN1.5612NL306 K12G0LWH1.5612NL302 K12PBK1.52.5N K12PL0G1.55NL315 K12PL0G11.5N0DL315 K12PLBU12.5NL328 K12PLGN1.52.5NL306 K12PLGN1.55NL306 K12PLRD1.55NL352 K12PLWH15NL302 K12AGN1.52.5N K12AGY1.52.5N K12AH11.5N K12AH12.5N K12AH12.5N K12AH11.5N K12AK12.5N K12AK13.5N K12AK13.5N