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: $\geq 10^6$ operations K12G & K12GO; operating life of second switch 5×10^4 operations, operating life K12C and version with more than 6N (7N, 9N 20N) please consult factory. CONTACT RESISTANCE: Initial ≤ 50 m Ω

CONTACT RESISTANCE: Initial $\leq 50 \text{ m}\Omega$ 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

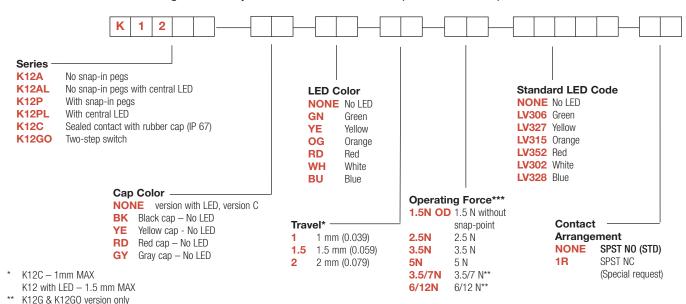
SOLDERABILITY:

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.





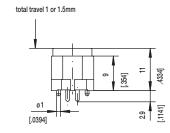
*** Additional operating force: 7N, 9N available on request

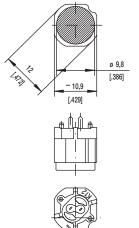
Dimensions are shown: mm Specifications and dimensions subject to change

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

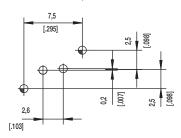
SERIES _________

K12A without snap in





PCB LAYOUT, MOUNTING SIDE

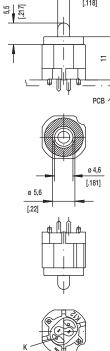




K12AL

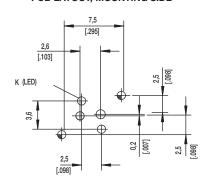






ø 3 [.118]

PCB LAYOUT, MOUNTING SIDE



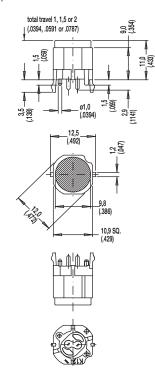
\Phi	1,1 ^{+0,05}	2x	2x	center hole		
6	0,9 ±0,05		2x	LED	ø0,5 (.020)	Sn
Φ		2x	2x	switch	0,7x0,2 (.028x.081)	Sn
Hole	ø	Without	with LED	Discription	Terminal Section	Surface



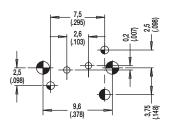
Dimensions are shown: mm Specifications and dimensions subject to change



SERIES



PCB LAYOUT, MOUNTING SIDE

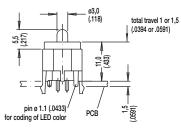




center of actuation area (notice LED)

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	0,9 (.035)	2x	switch	0.7 x 0.2 (.028 x .081)	Sn

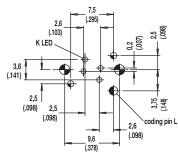
K12PL







PCB LAYOUT, MOUNTING SIDE





center of actuation area (notice LE	D)
-------------------------------------	----

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)	

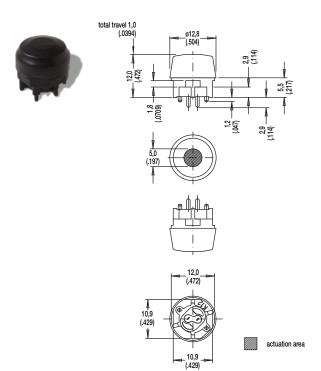


Dimensions are shown: mm Specifications and dimensions subject to change

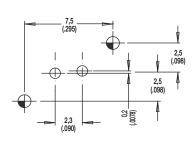


SERIES ______

K12C SEALED CONTACT WITH RUBBER CAP (IP 67)

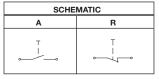


PCB LAYOUT, MOUNTING SIDE









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





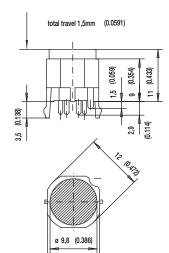
PCB LAYOUT, MOUNTING SIDE

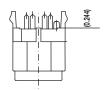
9,6 (0.278)

7,5 (0.295)

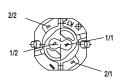
K12GO







SQ. 10,9 (0.428)



SCHEMATIC K12G

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



Dimensions are shown: mm Specifications and dimensions subject to change

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

1 mm **1.5** 1.5 mm 2 mm

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

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 600-1200a

CONTACT ARRANGEMENT OPTION

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



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