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

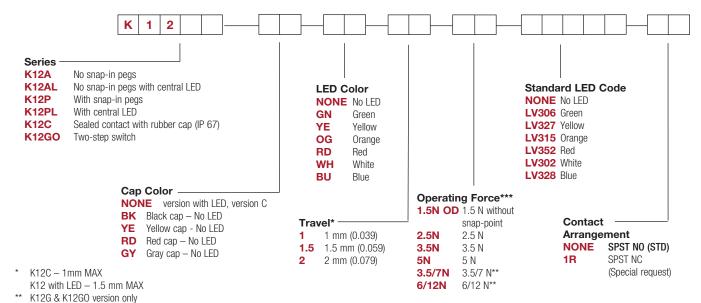
SOLDERABILITY:

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.





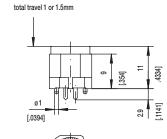
*** Additional operating force: 7N, 9N available on request

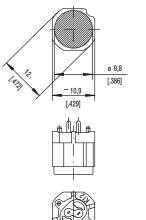
Dimensions are shown: mm Specifications and dimensions subject to change

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

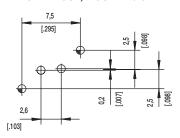
SERIES _____

K12A without snap in





PCB LAYOUT, MOUNTING SIDE

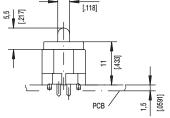


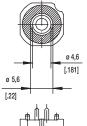


K12AL



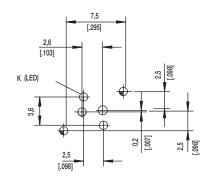
Key Switches

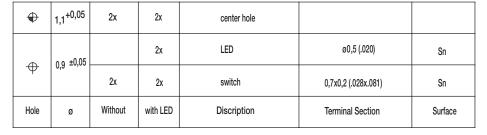






PCB LAYOUT, MOUNTING SIDE

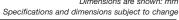






Dimensions are shown: mm





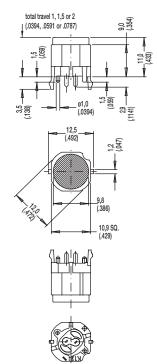


SERIES

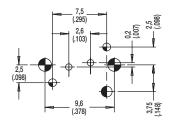




K12P with snap in



PCB LAYOUT, MOUNTING SIDE

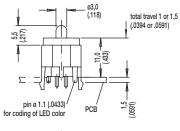




center of actuation area (notice LED)

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	switch	0.7 x 0.2 (.028 x .081)	Sn

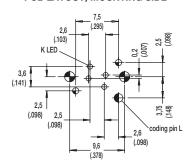
K12PL

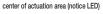






PCB LAYOUT, MOUNTING SIDE







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	LED	m0.5 (.020)	Sn
		2x	switch	0.7 x 0.2 (.028 x .081)	



First Angle Projection

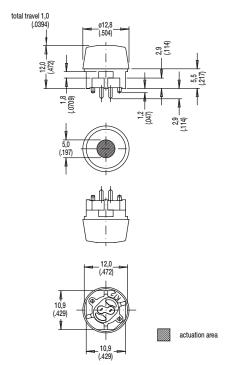
Dimensions are shown: mm



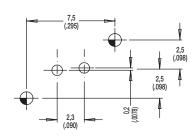
SERIES ----

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)		center hole switch	0.7 x 0.2(.0275 x .0787)	Sn





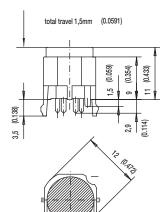
PCB LAYOUT, MOUNTING SIDE

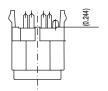
9,6 (0.278)

SERIES 7------

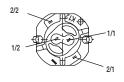
K12GO

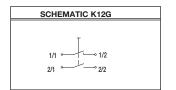






ø 9,8 (0.386) SQ. 10,9 (0.428)





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



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

TRAVEL ---------

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
6/10N	C/10 N C00 1000-

CONTACT ARRANGEMENT OPTION

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



Dimensions are shown: mm Specifications and dimensions subject to change







单击下面可查看定价,库存,交付和生命周期等信息

