

K12 D Series

High Performance Detect Switches



Description

K12 D high performance detect switch is perfect for off-road vehicles, joysticks, industrial electronics and medical equipment. K12 D is designed for low-level switching and is made to last. It is compliant with the permanent actuation.

Features & Benefits

- Overtravel up to 1.4 mm
- Permanent actuation possible
- Designed for low-level switching

Applications

- Off-road transportation
- Industrial electronics
- Joysticks
- Medical equipment

Specifications

Function	Momentary
Distance Between Button Centers	Min. 11 (0.433)
Terminals	PC pins, tinned
Mounting	Locating pins; K12P additionally with snap-in-housing

Mechanical Specifications

Total Travel	1.5 mm, 2 mm
Operating Force	1.5 N OD without snap-point as detector switch
Switching Travel	0.6 mm ¹

Notes

1. Additional switching travel (with pre-travel) available by request.

Electrical Specifications

Switching Power Min./Max.	0.02mW/3 W
Switching Min./Max. Voltage	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	≥ 10 ⁶ operations
Contact Resistance	Initial ≤ 50 mΩ
Insulation Resistance	≥ 10 ¹⁰ Ω
Bounce Time	≤ 1 ms Operating speed 100 mm/s (3.94/s)

Environmental Specifications

Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 95°C

Process

Soldering	Wave soldering, compatible with lead free soldering profile Hand soldering, 350°C
Packaging	Bulk in boxes of 300 pieces

Ordering Number

K12P - xx - xx - xx - xx

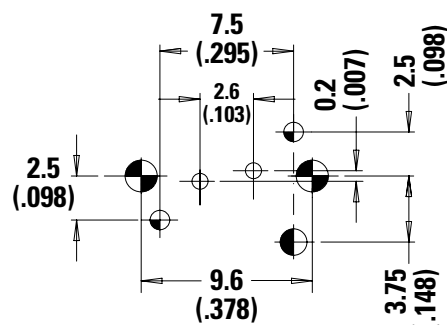
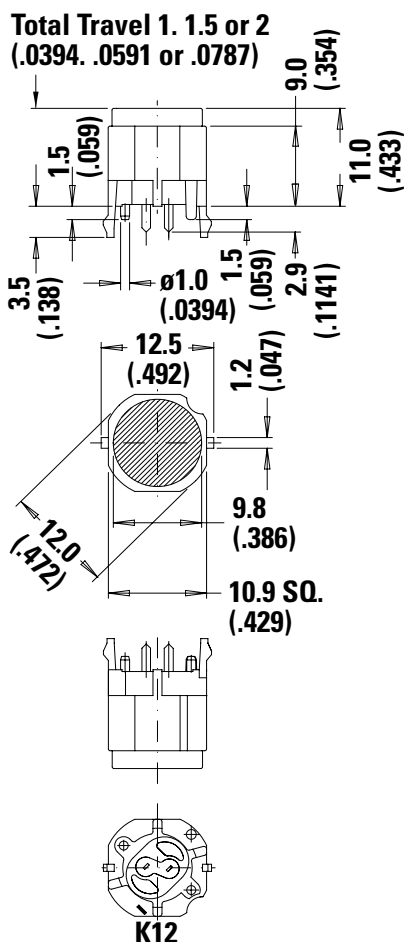
Contact Arrangement
None: SPST NO (STD)
1R: SPST NC (Special request)

Operating Force
5N OD: 1.5 N without snap-point

Travel
1.5: 1.5 mm (0.059)
2: 2 mm (0.079)

Series

PCB layout, mounting side



Center of Actuation Area (Notice LED)

Hole	Ø	Without LED	Description	Terminal Section	Surface
	1.7 (0.069)	2x	Snap-in	-	-
	1.6 (0.062)	1x	Coding hole (L,M,N)	-	-
	1.1 (0.043)	2x	Center hole	-	Sn
	0.9 (0.035)		Switch	0.7 × 0.2 (0.028 × 0.081)	

