

# KM Series Subminiature Detect Switches

## Features/Benefits

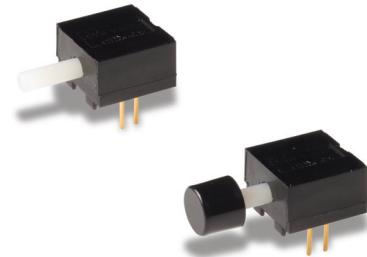
- Reliable contact design
- Available with pretravel and overtravel
- RoHS compliant

## Typical Applications

- Alarm systems
- Computers
- Detector switch application



Models Available



## Specifications

CONTACT RATING: Q contact material: 0.25 AMPS @ 125 V AC or DC (UL). See page F-29 for additional ratings.  
ELECTRICAL LIFE: 10,000 actuations min. at full load.  
CONTACT RESISTANCE: Below 30 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.  
INSULATION RESISTANCE:  $10^9 \Omega$  min.  
DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.  
OPERATING TEMPERATURE: -30°C to 85°C.  
CAP INSTALLATION FORCE: 10 lbs. max. permissible.

**NOTE:** Any models supplied with Q or B contact material are RoHS compliant.

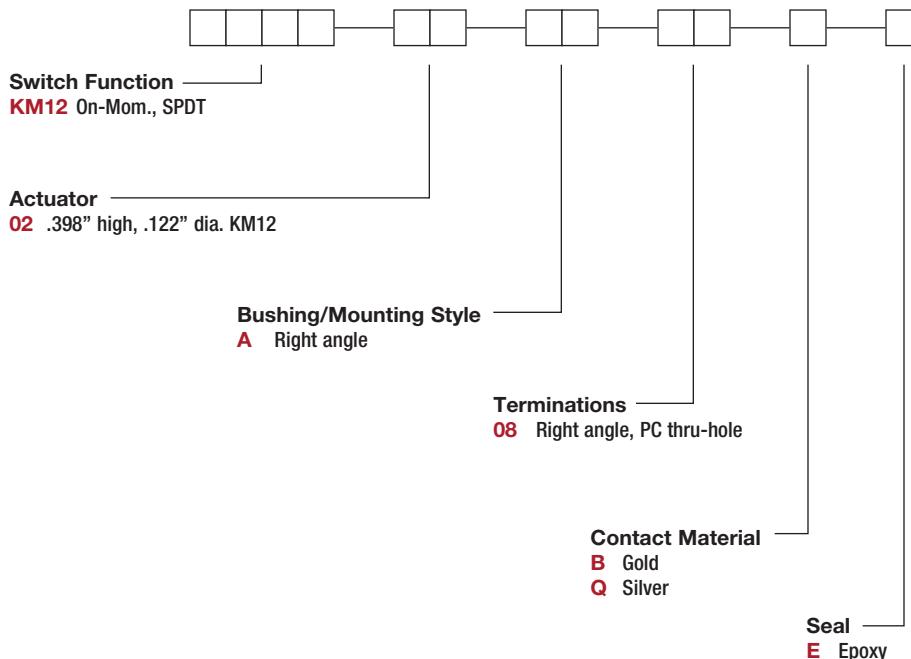
**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

## Materials

HOUSING & BUSHING: 6/6 nylon (UL94V-2), black.  
ACTUATOR: 6/6 nylon (UL 94V-2), natural.  
MOVABLE CONTACT: B contact material: Bronze or copper, with gold plate over nickel plate. See page F-39 for additional contact materials.  
STATIONARY CONTACTS & TERMINALS: B contact material: Copper, with gold plate over nickel plate. See page F-29 for additional contact materials.  
RETURN SPRING: Music wire, phosphor coated.  
MOUNTING NUT: Brass, nickel plated.  
TERMINAL SEAL: Epoxy.

## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages E-28 and E-29. For additional options not shown in catalog, consult Customer Service Center.



**E**  
**Detect**



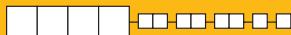
Dimensions are shown: mm  
Specifications and dimensions subject to change

[www.ckswitches.com](http://www.ckswitches.com)

# KM Series

## Subminiature Detect Switches

### SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	<b>KM12</b>	ON	MOM.	2-1	4-3	SPDT

**SPDT**

Part number shown: KM1202A08BE

### ACTUATOR



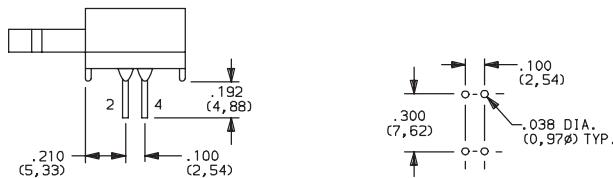
**02** .398" HIGH, .122" DIA.

NOTE: Caps available for plunger options, see page E-29.

### BUSHING/ MOUNTING STYLE



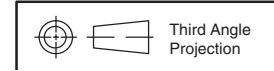
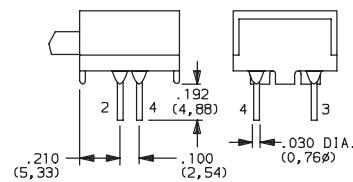
**A** RIGHT ANGLE



### TERMINATIONS



**08** RIGHT ANGLE, PC THRU-HOLE



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## CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	CONTACT AND TERMINAL MATERIAL	RATINGS	
<b>B</b>	YES	YES	GOLD 1	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>Q</b>	YES	YES	SILVER 2	POWER	0.25 AMPS @ 125 V AC OR DC (KM11, KM12) (UL) 1 AMP @ 125 V AC OR 28 V DC (KM33).

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

1 STATIONARY CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.  
MOVABLE CONTACT: Phosphor bronze or beryllium copper, with gold plate over nickel plate.

2 STATIONARY CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).  
MOVABLE CONTACT: Phosphor bronze or beryllium copper, silver plated.

3 STATIONARY CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.  
MOVABLE CONTACT: Phosphor bronze or beryllium copper, with gold plate over nickel plate over silver plate.

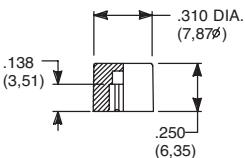
**NOTE:** Any models supplied with Q or B contact material are RoHS compliant.

KM12 models  when ordered with 'Q' contact material.

## SEAL

**E** EPOXY SEAL

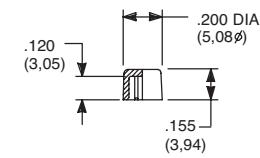
## AVAILABLE HARDWARE



PART NO.

**801801000** WHITE  
**801802000** BLACK  
**801803000** RED

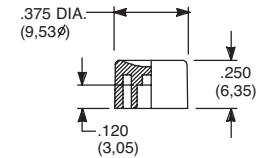
Material: Nylon  
Finish: Gloss



PART NO.

**708901000** WHITE  
**708902000** BLACK  
**708903000** RED

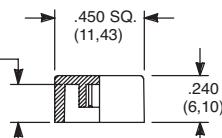
Material: Nylon  
Finish: Gloss



PART NO.

**752701000** WHITE  
**752702000** BLACK  
**752703000** RED

Material: Nylon  
Finish: Gloss



PART NO.

**484601000** WHITE  
**484602000** BLACK  
**484603000** RED

Material: Nylon  
Finish: Gloss

PART NO.

**798201000** WHITE  
**798202263** BLACK  
**798203000** RED

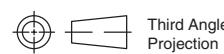
Material: Nylon  
Finish: Matte

**NOTE:** Other cap colors available, consult Customer Service Center.



**E**

**Detect**



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