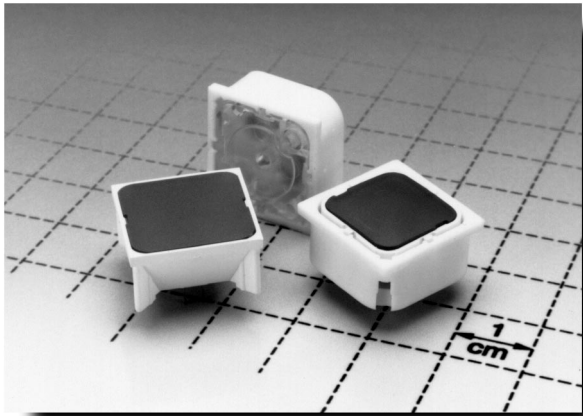


C&K RF 19 Series

Short Travel Tactile Switches



Features/Benefits

- Long life—1,000,000 cycles
- Illumination available
- Highly reliable contact design
- Fully illuminated with corner LED indicator

Typical Applications

- Medical equipment
- Instrumentation equipment
- Machine process control



How To Order

To order, select switch/housing part number. Other illumination options available, consult Customer Service Center.

Specifications

CONTACT RATING: 0.01 - 100 mA @ 0.02 - 42 V AC/DC (Au).
 0.1 - 250 mA @ 3 - 50 V AC/DC (Ag).
 RATED POWER: 2 W AC/DC (Au), 12.5 W AC/DC (Ag)
 resistive load respectively.
 CONTACT RESISTANCE: ≤ 100 milliohms when new.
 BOUNCE: ≤ 5 ms.
 CONTACT SYSTEM: Snap-action contact.
 CONTACT ARRANGEMENT: SPST NO.
 FIXING: By soldering.
 SOLDERING TEMPERATURE: 250°C.
 SOLDERING TIME: 2.5 sec. max.
 SWITCHING TRAVEL: 0.5 + 0.2 mm.
 OPERATING LIFE: 1,000,000 cycles min.

OPERATING FORCE: 2 - 3 N max.
 AMBIENT OPERATING TEMPERATURE: – 25°C to+ 70°C;
 – 13°F to+ 158°F.
 AMBIENT STORAGE TEMPERATURE: – 40°C to + 80°C;
 – 40°F to + 176°F.
 PACKAGING: Tube packaging, 25 switches.

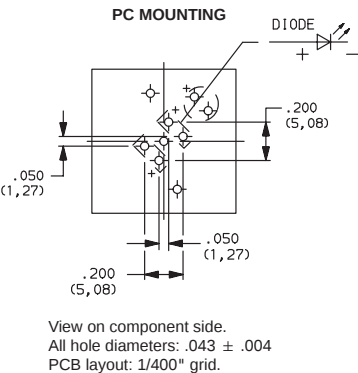
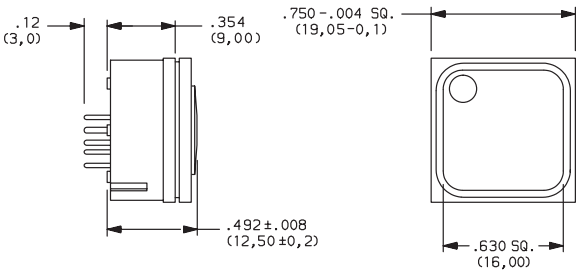
Materials

SWITCH HOUSING: PBTB.
 TRANSPARENT ACTUATOR: PC.
 COLORED ACTUATOR: Plexiglass HW55.
 CONTACT MATERIAL: Au or Ag.
 TERMINALS: Contact spring: Tin-plated. Stationary contact:
 Au version tin-plated, Ag version silver-plated.
 FLAMMABILITY OF PLASTIC MATERIALS: UL 94 HB.

RF 19 Illuminated Short Travel Tactile Switches



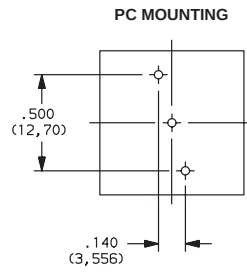
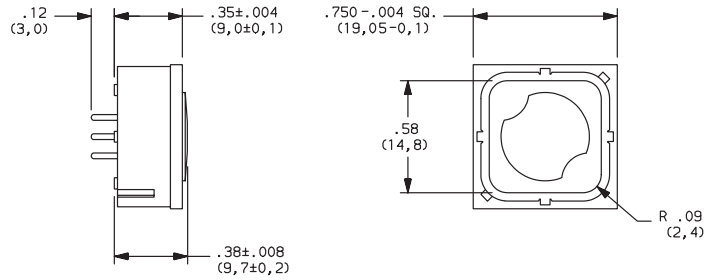
3.14002.5130000
SPST N.O.



SWITCH & HOUSING				ILLUMINATION		SCHEMATIC
PART NUMBER	FUNCTION	CONTACT MATERIAL	KEY PAD COLOR	STANDARD LED	SPOT LED COLOR	
3.14002.5130000	SPST N.O.	Au	Red	Fully illuminated (2 LEDs) & spot illuminated (1 LED)	Green	
3.14002.5320000			Green		Red	
3.14002.5530000			Yellow		Green	
3.14002.5830000			Blue		Green	
3.14002.5230000		Ag	Red		Green	
3.14002.5420000			Green		Red	
3.14002.5630000			Yellow		Green	
3.14002.5880000			Blue		Green	

C&K RF 19 Series Short Travel Tactile Switches

RF 19 Non-Illuminated Short Travel Tactile Switches



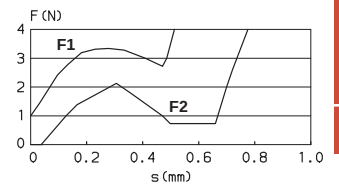
View on component side.
All hole diameters: .043 ± .004
PCB layout: 1/400" grid.



3.14001.0010000
SPST N.O.

SWITCH & HOUSING				SCHEMATIC
PART NUMBER	FUNCTION	CONTACT MATERIAL	ACTUATOR COLOR	
3.14001.0010000	SPST N.O.	Au	Opaque White	
3.14001.0060000		Ag		

FORCE/TRAVEL DIAGRAM



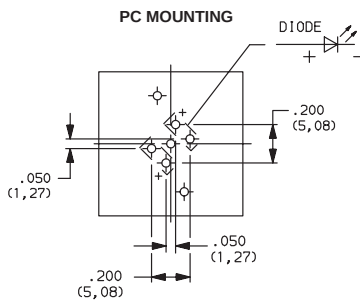
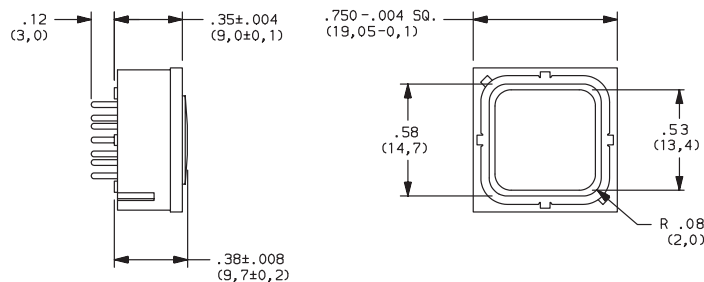
F1 = Max. operating force
F2 = Force at contact
F2 is max. 55% of F1.



C

Tactile

RF 19 Illuminated Short Travel Tactile Switches



View on component side.
All hole diameters: .043 ± .004
PCB layout: 1/400" grid.

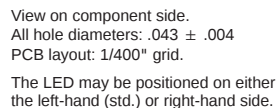
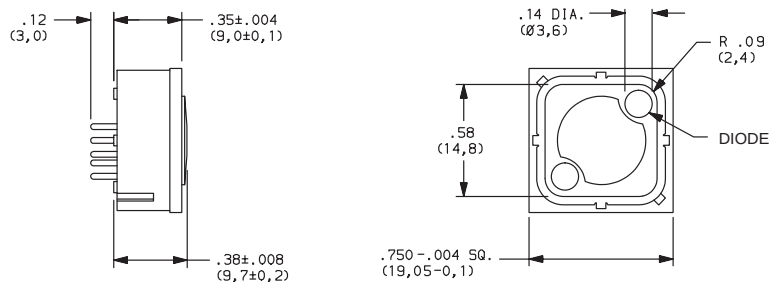


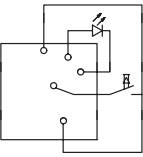
3.14002.0110000
SPST N.O.

SWITCH & HOUSING				ILLUMINATION		SCHEMATIC
PART NUMBER	FUNCTION	CONTACT MATERIAL	ACTUATOR COLOR	STANDARD LED	LED COLOR	
3.14002.0110000	SPST N.O.	Au	Red	2 LEDs Fully illuminated	Red	
3.14002.0120000			Green		Green	
3.14002.0130000			Yellow		Yellow	
3.14002.0210000		Ag	Red		Red	
3.14002.0220000			Green		Green	
3.14002.0230000			Yellow		Yellow	

RF 19

Illuminated Short Travel Tactile Switches



SWITCH & HOUSING				ILLUMINATION		SCHEMATIC
PART NUMBER	FUNCTION	CONTACT MATERIAL	ACTUATOR COLOR	STANDARD LED	SPOT LED COLOR	
3.14001.0300000	SPST N.O.	Au	Opaque White	1 LED spot illuminated	Blue	
3.14001.0310000					Red	
3.14001.0320000					Green	
3.14001.0330000					Yellow	
3.14001.0400000		Ag			Blue	
3.14001.0410000					Red	
3.14001.0420000					Green	
3.14001.0430000					Yellow	

