

C&K Racon 12i Series Short Travel Tactile Switches



Models Available

Features/Benefits

- Long life—more than 1 million cycles
- Process sealed—solder- and wash-proof
- Low profile—saves PCB space
- Fully-illuminated (2 LEDs)
- SPST Momentary

Typical Applications

- Medical equipment
- Test instrumentation
- Data entry panels



How To Order

To order Racon 12i, select switch/housing part number. These switches are suitable for most common soldering techniques.

Specifications

CONTACT RATING: 0.01 - 100 mA @ 0.02 - 42 V AC/DC.
 RATED POWER: 1 W max. (Ohmic load).
 CONTACT RESISTANCE: < 100 milliohms when new.
 BOUNCE: < 5 ms.
 CONTACT SYSTEM: Snap-action contact.
 CONTACT ARRANGEMENT: SPST N.O.
 FIXING: By soldering.
 SWITCHING TRAVEL: 0.6 ± 0.2 mm.
 OPERATING LIFE: ≥ 10⁶ operations.
 OPERATING FORCE: 2.5 + 0.7/- 0.5 N.

AMBIENT OPERATING TEMPERATURE: - 40°C to + 80°C.
 AMBIENT STORAGE TEMPERATURE: - 50°C to + 85°C.
 DEGREE OF PROTECTION: Solder-proof, wash-proof.

Materials

CONTACT MATERIAL: Au.
 TERMINALS: Tin-plated.
 FLAMMABILITY OF PLASTIC MATERIALS: UL 94 HB.



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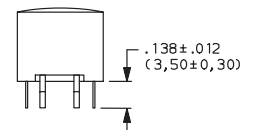
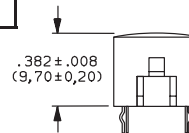
Tactile

Fully Illuminated – 2 LEDs

SWITCH & HOUSING				ILLUMINATION		
PART NUMBER	FUNCTION	CONTACT MATERIAL	SCHEMATIC	STANDARD LEDs	LED COLOR	LENS COLOR
1.14001.0510000	SPST N.O.	Au		2 LEDs Fully Illuminated	Red	Red
1.14001.0520000					Green	Green
1.14001.0530000					Yellow	Yellow
1.14001.0540000					Yellow	Orange



1.14001.0510000
SPST N.O.



LED SPECIFICATIONS FOR 12i SERIES FULLY ILLUMINATED TACTILE SWITCHES			
SPECIFICATIONS	RED LED	YELLOW LED	GREEN LED
Maximum admissible current I _F max.	30 mA	50 mA	30 mA
Current reduction from 50°C on	0.5 mA/°C	0.8 mA/°C	0.5 mA/°C
Luminous flux typical f _v /I _F	-	250 mlm/20 mA	-
Wavelength typical λ _{PEAK}	637 nm	590 nm	569 nm
Forward current typical U _F /I _F	1.8 V/20 mA	1.9 V/20 mA	2.1 V/10 mA
Minimum breakdown voltage U _R /I _R	5 V/100 μA	5 V/100 μA	5 V/100 μA
Ambient operating temperature	-55°C to +100°C	-40°C to +100°C	-40°C to +100°C

