

Engineered for life

ITT has been providing innovative customer driven solutions for decades. Significant new product development and voice of customer feedback have resulted in ITT offering the broadest switch product portfolio in the industry. This short-form catalog exemplifies ITT's commitment as the most relied upon switch supplier in the world.

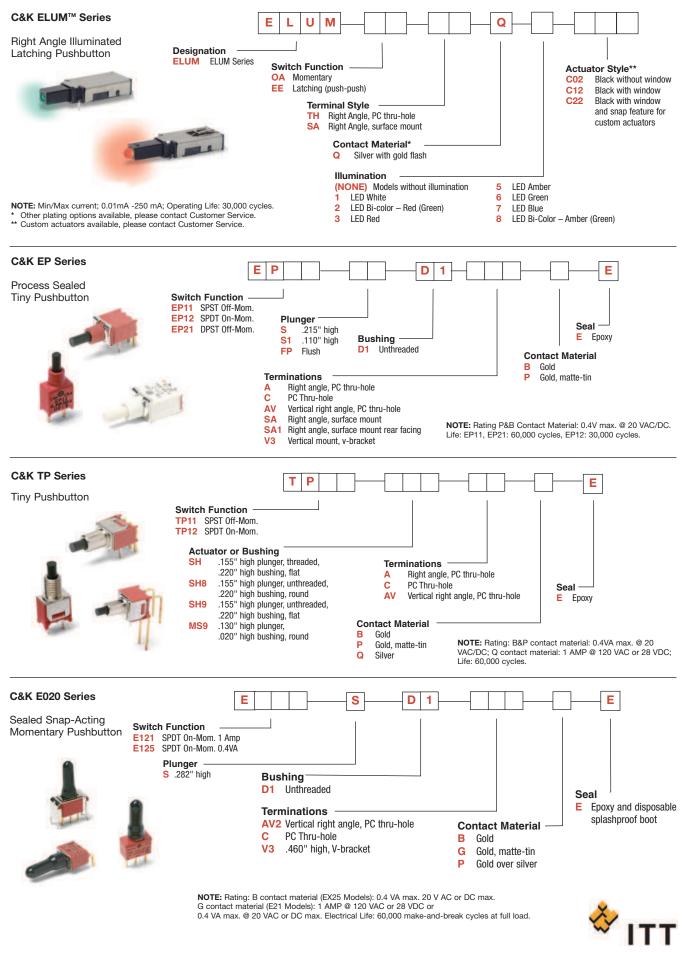
For additional options, full product specifications and drawings please view the attached CD-Rom catalog or visit www.ittcannon.com

The part numbers listed are RoHS compliant.

Pushbutton	2
Tactile	.4
Navigation	7
Key Switch	7
Detect	9
Toggle 1	1
Rocker 1	3

DIP	.18
Slide	.20
Snap-Acting	.23
Rotary	.25
Switchlock	.27
Thumb/Pushwheel	28
RoHS Specifications	29



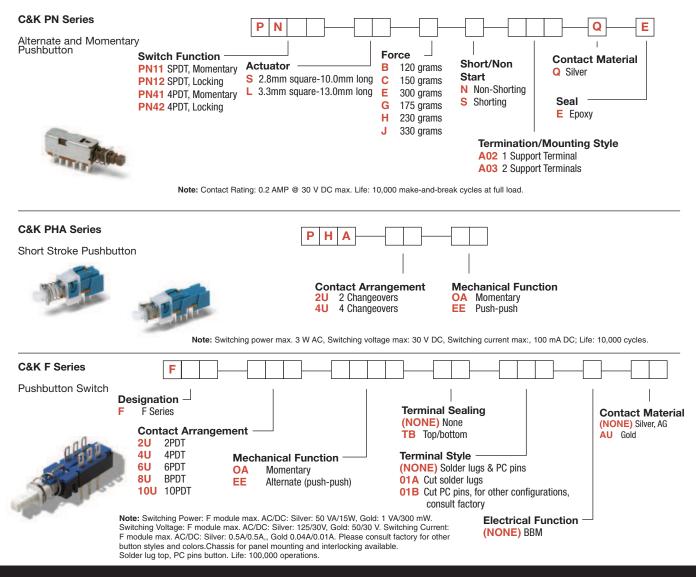


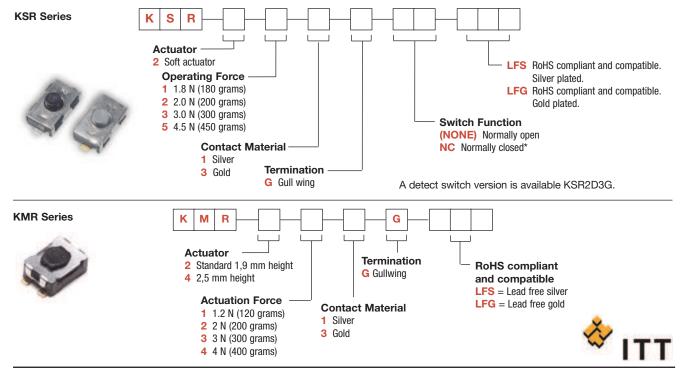
C&K 8020 Series Snap-acting Momentary Pushbutton Ε 8 Bushing -Switch Function **Contact Material Actuator or Plunger** Frame Color 8121 SPDT On-Mom. 1 Amp D9 .280" high, keyway **B** Gold Plunger .250" high, flat Black 8125 SPDT On-Mom. 0.4VA P Gold, matte-tin J81 Snap-in w/frame **NONE** Models 8221 DPDT On-Mom. 1 Amp D3 .180" high G Gold over silver J82 Snap-in w/frame for LED without frame 8225 DPDT On-Mom. 0.4VA **J83** Snap-in w/frame & Seal flush cap Terminations E Epoxy **LED Color** Right angle, PC thru-hole J85 Snap-in w/frame & LED 3 Red AV2 Vertical right angle, PC thru-hole Cap Color **NONE** Models C PC Thru-hole 2 Black without LED Solder lug **NONE** Models V3 .460" high, V-bracket without caps Note: Contact Rating: 8X25 models only: 0.4VA max @ 20 VAC or DC max. 8X21 models only: 0.4 VA max. @ 20 V AC or DC max. or 1 AMP at 120 VAC or 28 VDC. H bushing not available with A termination. Life: 60,000 make-and-break cycles at full load. **C&K E010 Series** Е Sealed Momentary Pushbutton **Switch Function** E112 SPDT On-Mom. **Contact Material** Plunger B Gold S .222" high **Bushing** Q Silver **D1** Unthreaded **Terminations** Right angle, PC thru-hole Seal Note: Contact Rating: B contact material, 0.4 VA max. @ 20 V AV2 Vertical right angle, PC thru-hole E Epoxy AC or DC max.Q contact material; 4 AMPS @ 125 V AC or 28 V DC. Life: 40,000 make-and-break cycles at full load. C&K 8060 Series 8 Alternate Action and Momentary Pushbutton Bushing **Switch Function** .300" high, flat, hi torque 8161 SPDT On-On **Contact Material** H9 .300" high, flat, hi torque 8168 SPDT On-Mom. B Gold Q Silver Terminations Actuator or Plunger G Gold over silver Right angle, PC thru-hole .710" high plunger AV2 Vertical right angle, with .375" dia. cap Seal PC thru-hole Snap-in with frame E Epoxy .740" high plunger with Z Solder lug Cap Color .395" dia. cap Black Frame Color Black Note: Contact Rating: Q contact material: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC; B contact Rating: 0.4 VA max. @ 20 V AC or DC max.; G contact rating: 0.4 VA max. @ 20 V AC or DC max. or 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC.; Life: 50,000 make-and-break cycles at full load. **C&K GP Series** Ε Sealed Ultraminiature Pushbutton Switch Function GP11 SPDT, Off-Mom. Terminations **Contact Material** GP12 SPDT, On-Mom. B Gold C PC Right angle SA Seal -Actuator thru-hole M Standard Plunger E Epoxy

Note: Contact Rating: 0.4 VA max. @ 20 V AC or DC max.; Life: 40,000 make-and-break cycles at full load.



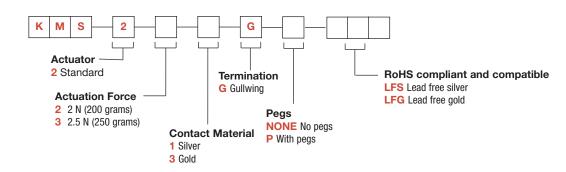
Downloaded from Datasheet.su

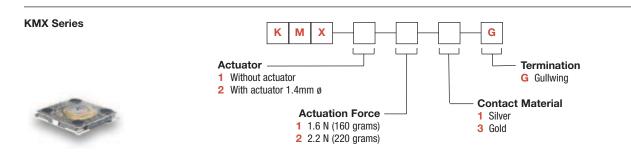


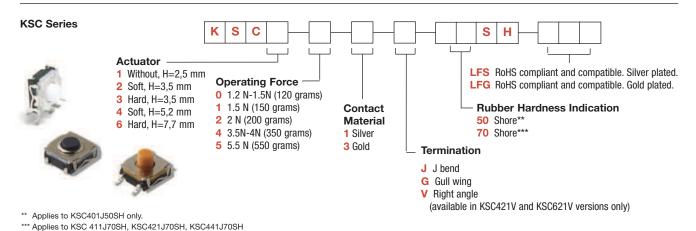


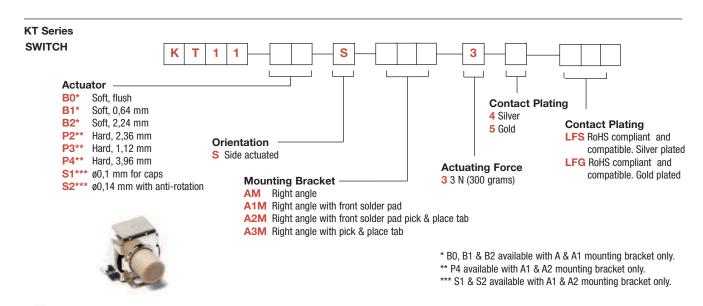




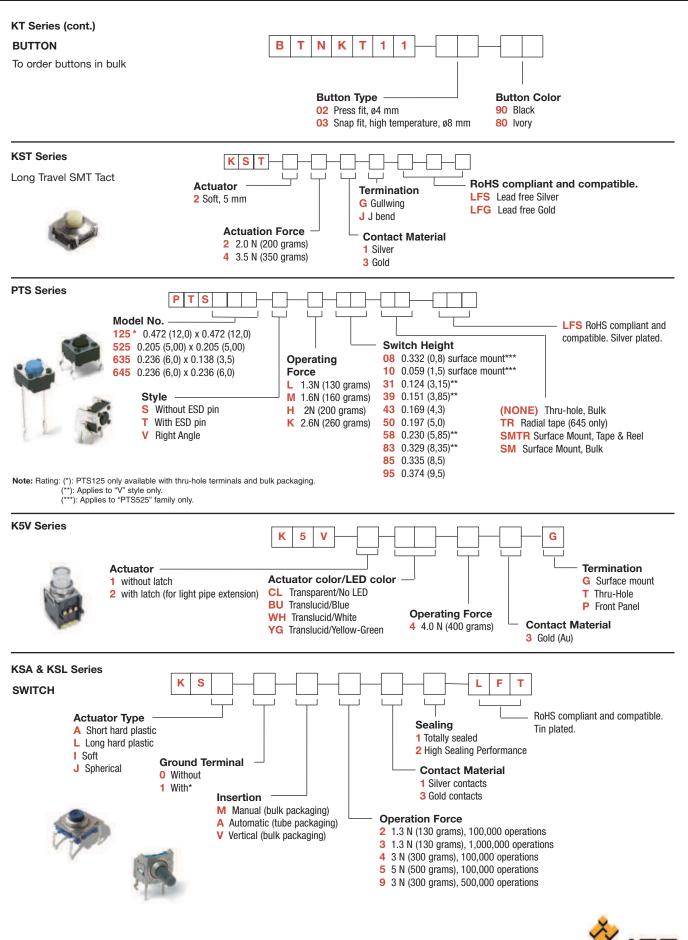


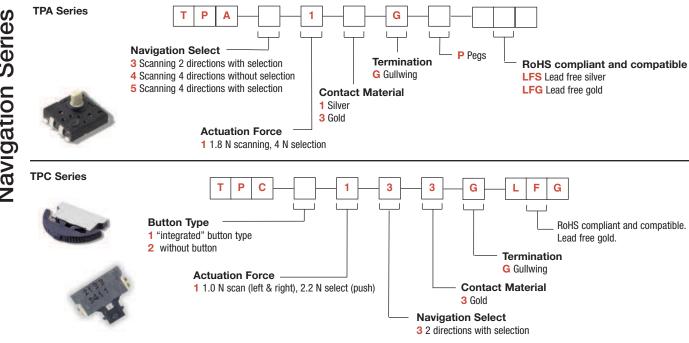


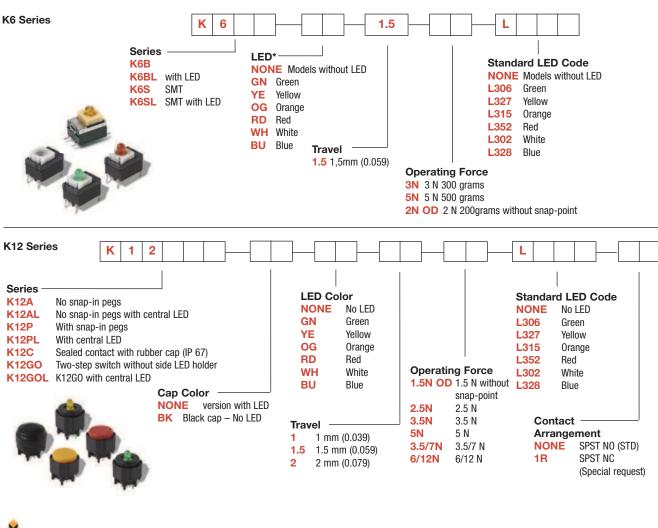


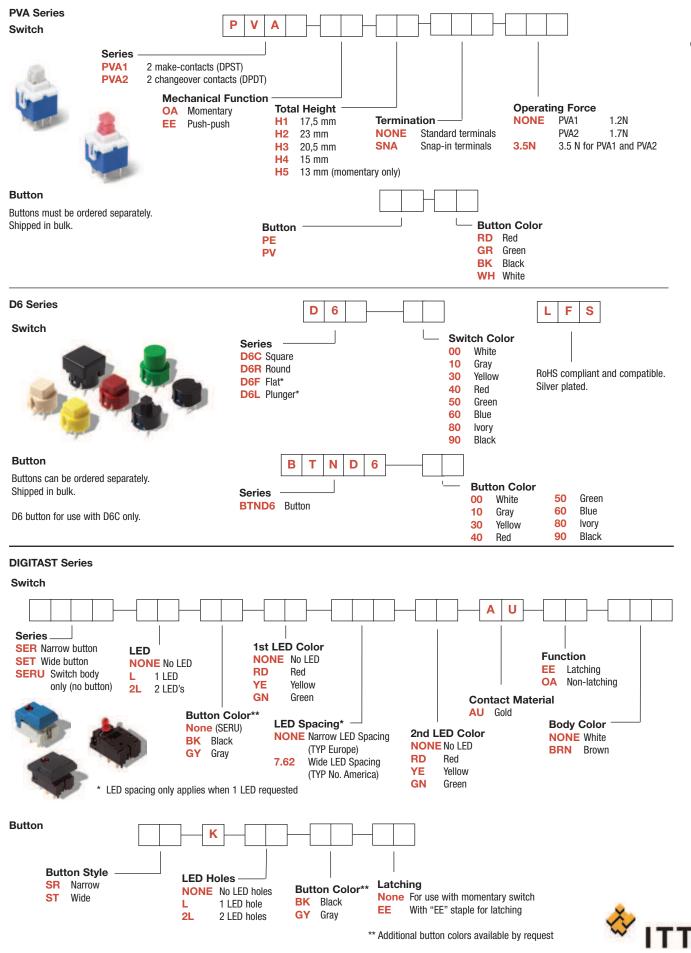


Downloaded from Datasheet.su









C&K HDT Series

Micro Miniature Surface Mount Detect Switches



PART NUMBER	PACKAGING
HDT0001	TAPE & REEL

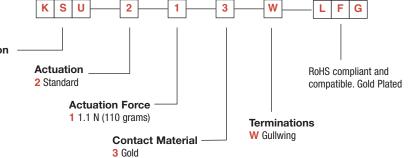
NOTE: Available with no locating posts by adding "N" (HDT0001NP) to Part Number. Contact Rating: 1 mA 5 VDC; Mechanical and Electrical Life: 100,000 cycles min.



Micro Mini Surface Mount Detect Switches

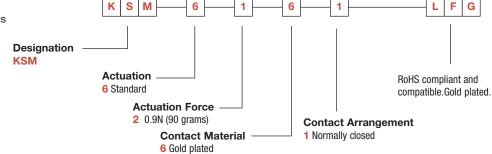
Designation KSU





KSM Series

Side Actuated Detect Switches



C&K SDS Series

Side Actuated Detect Switch



PART NUMBER	HOUSING COLOR	PACKAGING	SWITCH FUNCTION	Contact Plating	Terminal Plating
SDS001		Bulk			
SDS001R	Black	Tape & Reel	N.O. 2 1	Silver	Silver
SDS002		Bulk	2 1	Clad	Plate
SDS002R	White	Tape & Reel	N.C.		
SDS004	Black	Bulk			
SDS004R	ыаск	Tape & Reel	N.O. 2 1	Gold	Gold
SDS005	White	Bulk	2 1 1	Flash	Flash
SDS005R	vville	Tape & Reel	N.C.		

NOTE: Contact Rating: 100 mA @ 12 VDC; Mechanical and Electrical Life: 50,000 cycles.

C&K KDS Series

Intrusion Switch



	SWITCH FUNCTION		
	POS. 1	POS. 2	
PART NUMBER	1	1	SCHEMATIC
KDS11	OFF	мом.	SPST N.O. 2 1
KDS33	ON	мом.	SPST N.C. 2 1



NOTE: Contact Rating: 0.4 VA max. @ 20 V AC or DC; Mechanical and Electrical Life: 10,000 actuations min. at full load. Custom cable lengths and connector options are available.

C&K MDS Series

Micro Snap-acting Detect



PART NUMBER	SWITCH FUNCTION	DESCRIPTION	TERMINAL LENGTH	SCHEMATIC
MDS001	SPDT	Vertical	0.122 (3,1)	COM NO NC
MDS002	SPDT	Right Angle, Left Bend	0.060 (1,52)	COM NC
MDS003	SPDT	Right Angle, Right Bend	0.060 (1,52)	COH NO
MDS005	SPDT	Right Angle, Right Bend	0.106 (2,7)	COM NC
MDS006	SPDT	Right Angle, Left Bend	0.106 (2,7)	COH NO
MDS007	SPDT	Vertical	0.172 (4,37)	COH NC

NOTE: Contact Rating: 0.3A @ 6 VDC; Mechanical and Electrical Life; 10,000 operations.

C&K DDS Series

Micro Miniature Thru-hole Detect Switches



PART NUMBER	DESCRIPTION	SCHEMATIC
DDS001	Vertical Actuator	1 • 2 SPST N.O.
DDS002	Right Angle, Actuator Right	1 ● 2 SPST N.O.
DDS003	Right Angle, Actuator Left	1 • 2 SPST N.O.

NOTE: Contact Rating: 0.1A @ 30 VDC; Mechanical and Electrical Life; 50,000 cycles.

C&K MPS Series

Magnetic Proximity Sensors





PART NUMBER	SWITCH TYPE
MPS45WGW	Subminiature surface mount (adhesive or flange), side exit leads, 1" make gap.
MPS20WGW	Standard surface mount, screw terminals, 1 1/4" make gap.
MPS80WGW	Industrial surface mount, concealed screw terminals, 2" make gap.
MPS9WGW	3/8" Diameter recessed magnetic contact, 1 1/4" make gap.
MPS95WGW	3/8" Diameter recessed magnetic contact, 1 1/4" make gap.
MPS73WGW	3/4" Diameter recessed magnetic contact, 1 1/4" make gap.
MPS70WGW	3/4" Diameter recessed magnetic contact, 1 1/4" make gap.

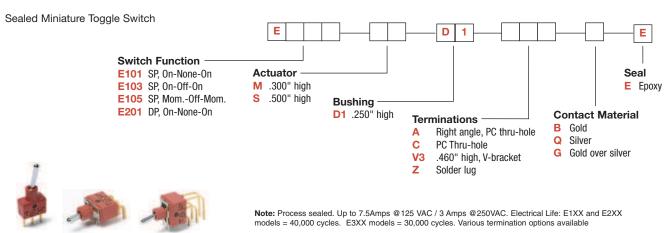
NOTE: Contact Ratings: 3.0 W max. @ 30 V DC or 30 V AC max. @ 0.3 AMP max.; 1.0 msec. max operate time (including bounce); 1.0 AMP max carry current. Mechanical & Electrical Life: 10 million operations.



C&K 7000 Series Miniature Toggle Switch **Switch Function Bushing Contact Material** 7101 SP On-None-On Actuator .280 high, keyway D В Gold 7103 SP On-Off-On .200" high .350 high, keyway Q Silver Seal **7105** SP Mom.-Off-Mom. Flatted, anti-rotation, D9 .280" high, keyway E Epoxy 7107 SP On-Off-Mom. G Gold over silver .450" high 7201 DP On-None-On Terminations .420" high 7301 3P On-None-On Right angle, PC thru-hole 7401 4P On-None-On AV2 Vert. right angle, PC thru-hole C PC Thru-hole Z Solder lug

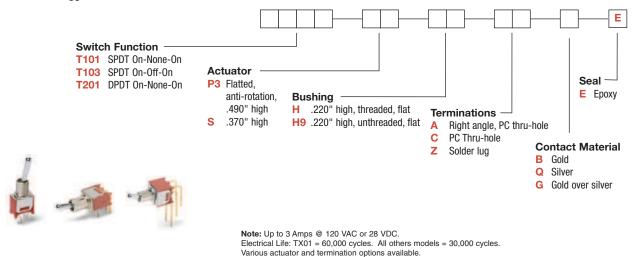
Note: Up to 5A @ 120 VAC / 2 Amps @250VAC. Electrical Life: 7X01 = 100,000 cycles. All others models = 40,000 cycles. Various actuator and termination options available.

C&K E Series

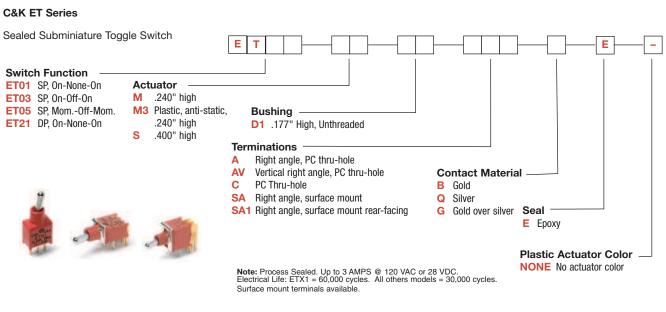


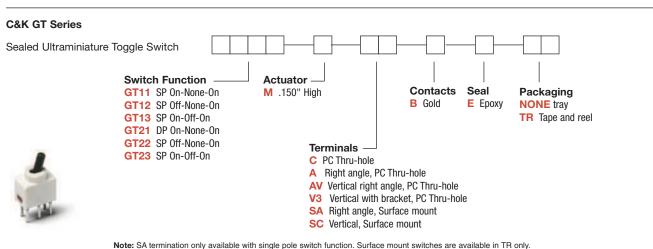
C&K T Series







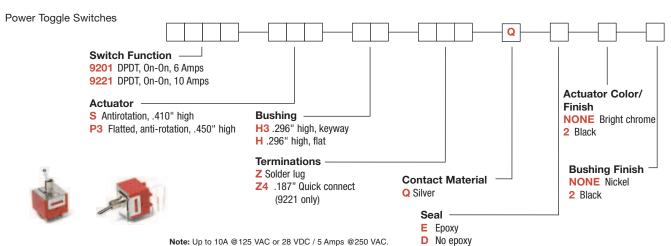




Note: SA termination only available with single pole switch function. Surface mount switches are available in TR only.

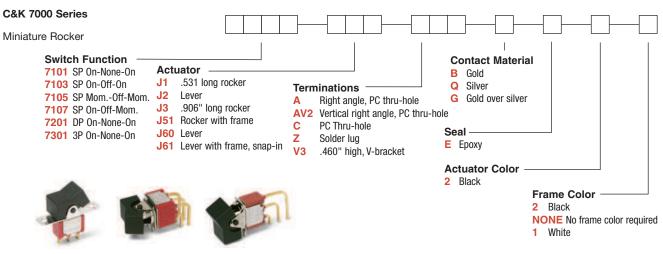
Process Sealed. Contact Rating: 0.4 Amps @ 20 VAC or VDC. Electrical Life: 40,000 cycles. Surface mount terminals available

C&K 9000 Series

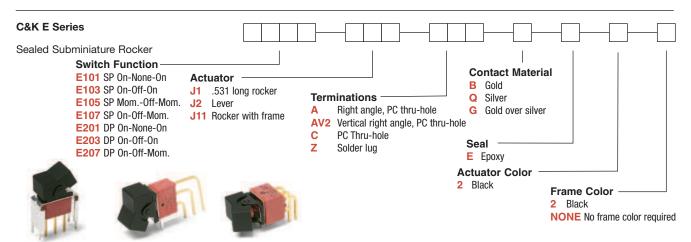




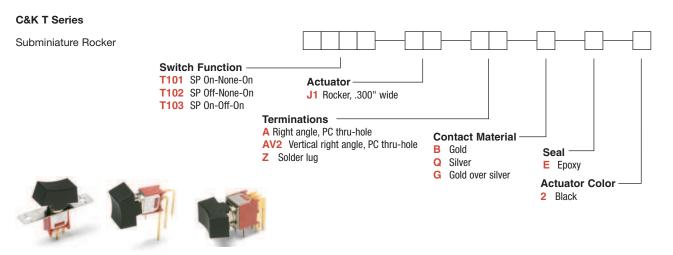
Electrical Life: 25,000 cycles.



Note: Up to 5A @ 120 VAC/2 Amps @ 250 VAC. Electrical Life: 7X01 = 1000,000 cycles. All others models = 40,000 cycles. Various actuator and termination options available.

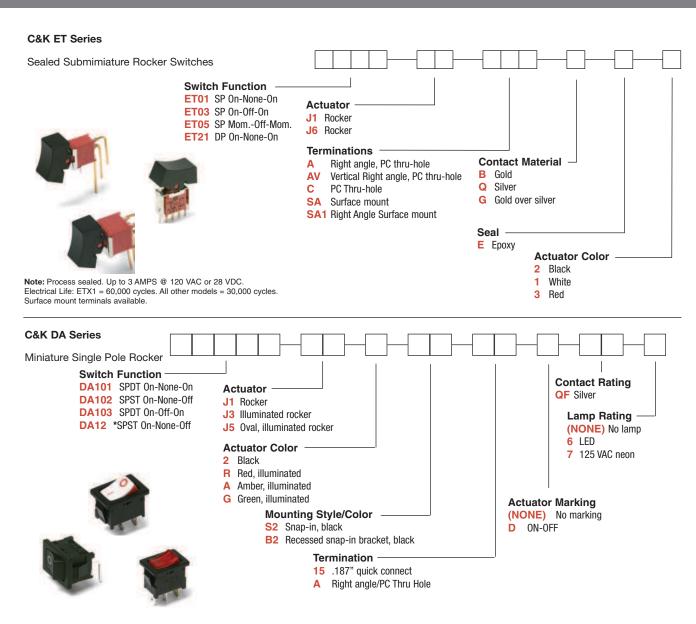


Note: Process sealed. Up to 7.5Amps @ 125 VAC / 3 Amps @ 250VAC. Electrical Life: E1XX and E2XX models = 40,000 cycles. E3XX models = 30,000 cycles. Various termination options available.

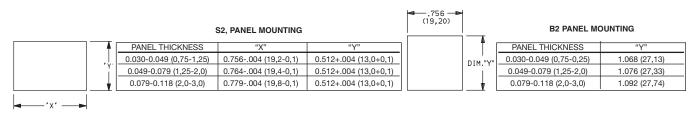


Note: Up to 3 Amps @ 125 VAC or 28 VDC. Electrical Life: TX01 = 60,000 cycles. All other models = 30,000 cycles. Various actuator and termination options available.



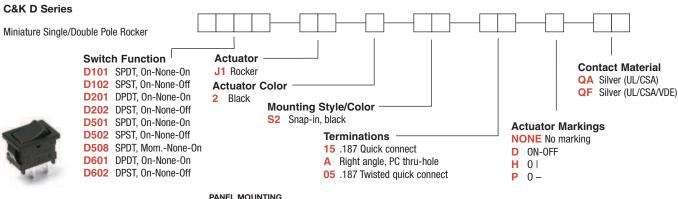


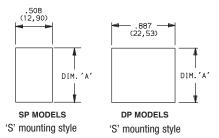
Note: Contact Rating: UL/CSA: 16 AMPS @ 125 VAC, 1/3 HP; 10 AMPS @ 250 VAC, 1/2 HP. VDE: 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC. Electrical life: 10,000 make and break cycles at full load.



*DA12 for switches with both marking and illumination.





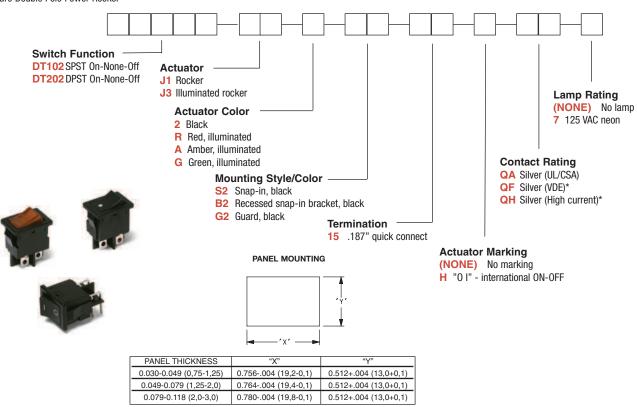


PANEL THICKNESS	DIM 'A' SP & DP MODELS 'S' MOUNTING STYLE
.030049	.756
(0,76) (1,24)	(19,20)
.049079	.764
(1,24) (2,01)	(19,41)
.079118	.780
(2,01) (3,00)	(19,81)

Contact Rating: D10X and D20X Models: 4 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. D50X and D60X Models: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC. Electrical Life: 10,000 make-and-break cycles at full load.

C&K DT Series

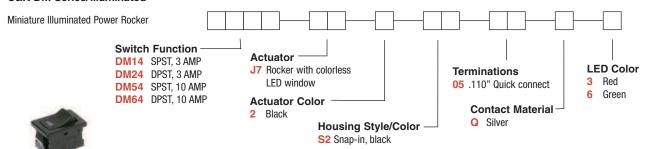
Miniature Double Pole Power Rocker



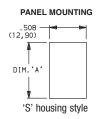
Contact Rating: UL/CSA: 8 AMPS @ 125 VAC, 4 AMPS @ 250 VAC. VDE: 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC. QH version: 16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC. Electrical Life: 10,000 make and break cycles at full load.



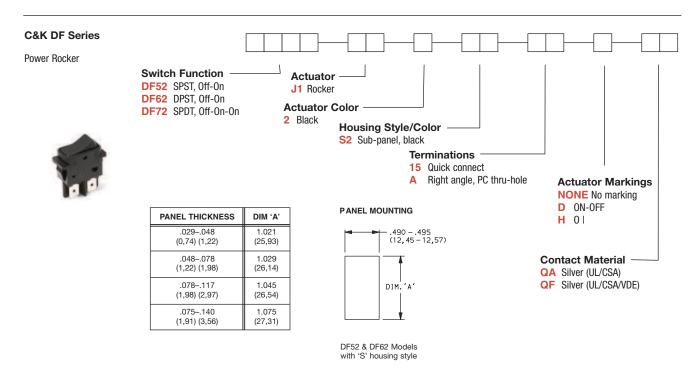
C&K DM Series/Illuminated



PANEL THICKNESS	DIM 'A' 'S2' HOUSING STYLES
.030049	0.756
(0,76) (1,24)	(19,20)
.049079	0.764
(1,24) (2,01)	(19,41)
.079118	.780
(2,01) (3,00)	(19,81)

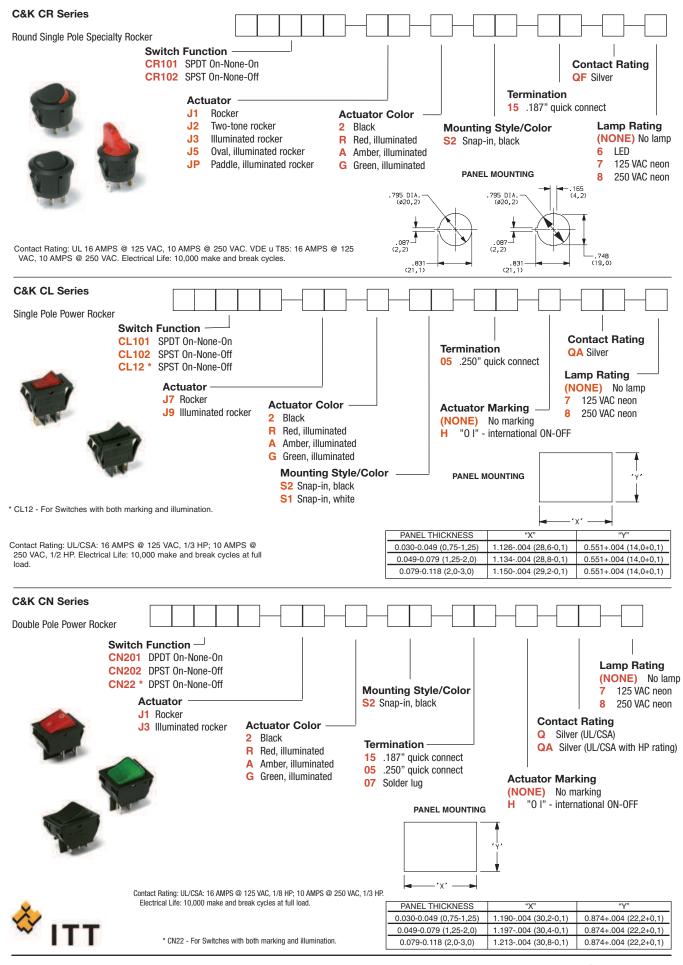


Contact Rating: DM14 and DM24 Models: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. DM54 and DM64 Models:10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC (UL/CSA). Electrical Life: 10,000 make-and-break cycles at full load.



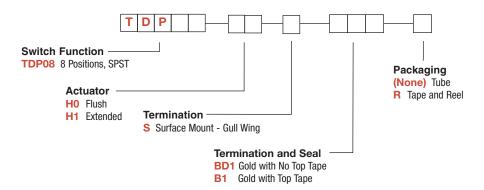
Contact Rating: 16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC (UL/CSA); 16 (2) AMPS @ 250 V AC, T100 (VDE). DF52 & DF62: 6 AMPS @ 48 V DC (VDE). Electrical Llife: 10,000 make-and-break cycles at full load.





C&K TDP Series

Ultra-miniature Surface Mount Half-Pitch Side-Actuated DIP



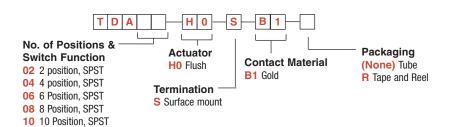


Note: Contact Rating: 24 V DC, 25 mA (Switching); 50 V DC, 100 mA (steady state). Life: 1,000 cycles. H1 extended actuator not available with tape seal.

C&K TDA Series

Ultra-miniature Surface Mount Half-Pitch DIP

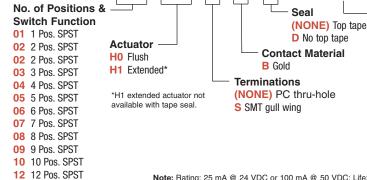




Note: Flush actuator, surface mount. Rating: 100 mA @ 50 VDC; Life: 1,000 cycles.

Note: Rating: 25 mA @ 24 VDC or 100 mA @ 50 VDC; Life: 2,000 cycles.



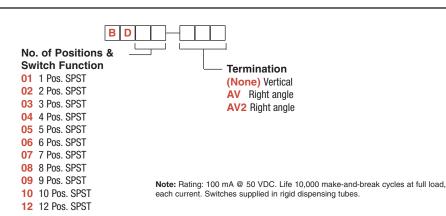




C&K BD Series

Standard Profile DIP







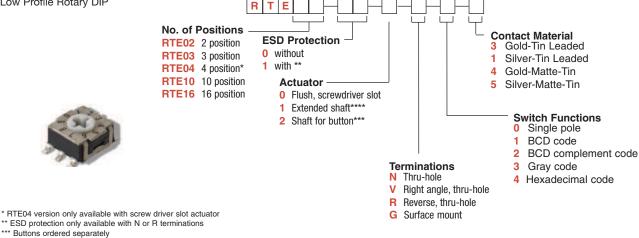
Packaging

(None) Tube

R Tape and Reel

RTE Series

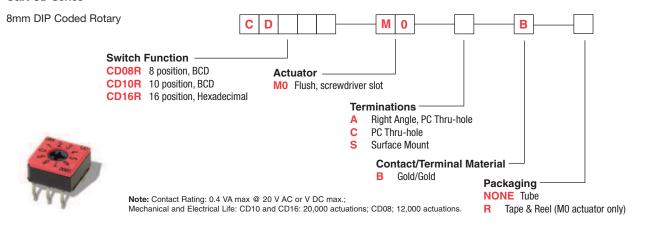
Low Profile Rotary DIP



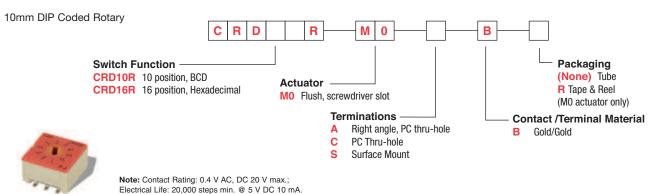
Note: Contact Rating: Gold: 100 mA max. 10u A min. 30 V DC max. 20 mVDC min. Silver: 100 mA max. 1 mA min. 50 V DC max. 2 VDC min. Mechanical Life: RTE02/03: 1,500 actuations; RTE04/10/16: 20,000 actuations.

C&K CD Series

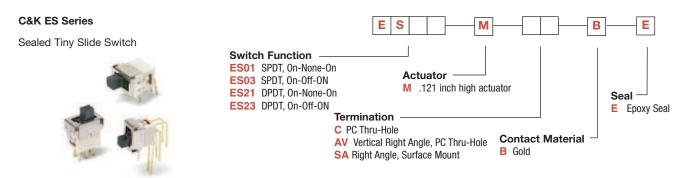
**** Not available in surface mount



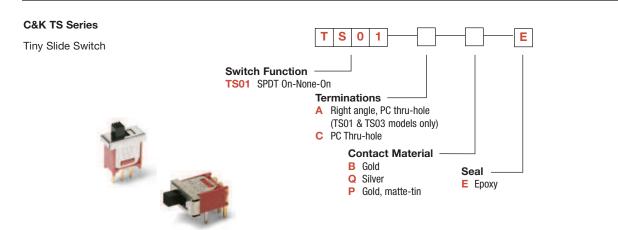
C&K CRD Series



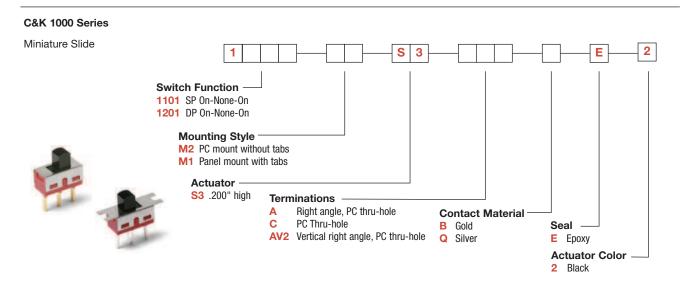




Note: Contact Rating: 0.4 VA max. @ 20 V AC or DC max.; Mechanical & Electrical Life: 40,000 make-and-break cycles at full load.

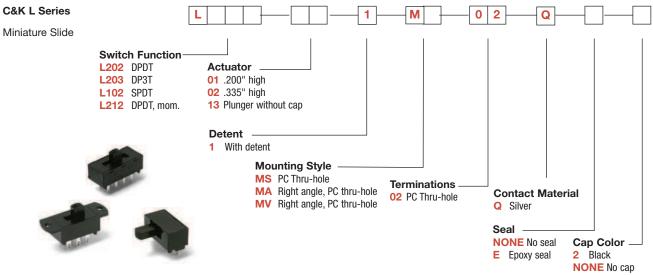


Note: Contact Rating: B Contact Material: 0.4 VA max. @ 20 V AC or DC max. Q Contact Material: 3 AMPS @ 120 V AC or 28 V DC. Electrical Life: TS01 Models: 60,000 make-and-break cycles at full load.



Note: Contact Rating: B contact material: 0.4 VA max., @ 20 VAC or DC max Q contact material: 6 AMPS @ 120 VAC or 28 VDC; 3 AMPS @ 250 VAC. Electrical Life: 100,000 make-and-break cycles at full load on models with B contact materials; 40,000 cycles on models with Q contact material.





Note: Contact Rating: Q Contact Material: 0.4 AMPS @ 125 V AC or 2 AMPS @ 250 V AC, 0.5 AMP @ 125 V DC (UL/CSA). Electrical Life: 10,000 make-and-break cycles at full load.

Actuator

03 .335" high



Switch Function S101 SPST, 6 AMPS S202 (DPDT, 6 AMPS S102 SPDT, 6AMPS

Mounting Style SS Panel with mounting ears MS PC thru-hole

Detent With detent

> Terminations 03 Solder lug with hole 02 PC Thru-hole

Housing Markings NONE No markings

Contact Material

Q Silver

Seal **NONE** No seal E Epoxy seal

Note: Contact Rating: 6 AMPS @ 125 V AC; 6 AMPS @ 250 V AC: 1 AMP @ 125 V DC (UL/CSA). Electrical Life: 10,000 make-and-break cycles at full load.

Note: Contact Rating: 10.1 AMPS @ 125 V AC; 4 AMPS @ 28 V DC; 5 AMPS @ 250 V DC (UL/CSA).

2.0 (0.5) AMPS @ 250 V AC, T85 (VDE). Electrical Life: 10,000 make-and-break cycles at full load.

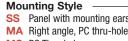


C&K S Series

Power & Line Voltage Select Slide



Switch Function Actuator V802 DPDT 12 Screwdriver slot 01 .290" high 13 Screwdriver slot



SS Panel with mounting ears Terminations MA Right angle, PC thru-hole 05 Quick connect MS PC Thru-hole

02 PC thru-hole 08 Right angle PC thru-hole

Contact Material Q Silver Seal

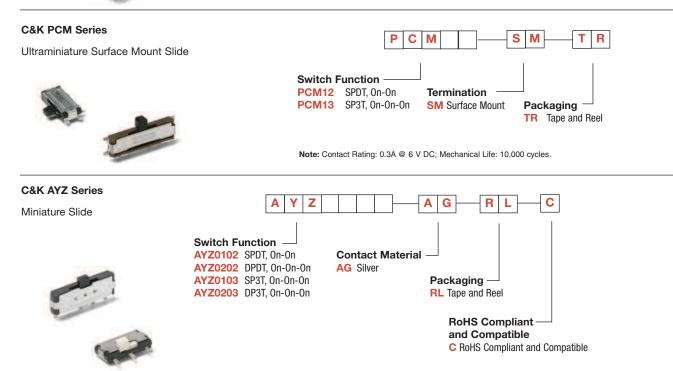
> **NONE** No seal E Epoxy seal

C&K OS Series

Miniature Slide

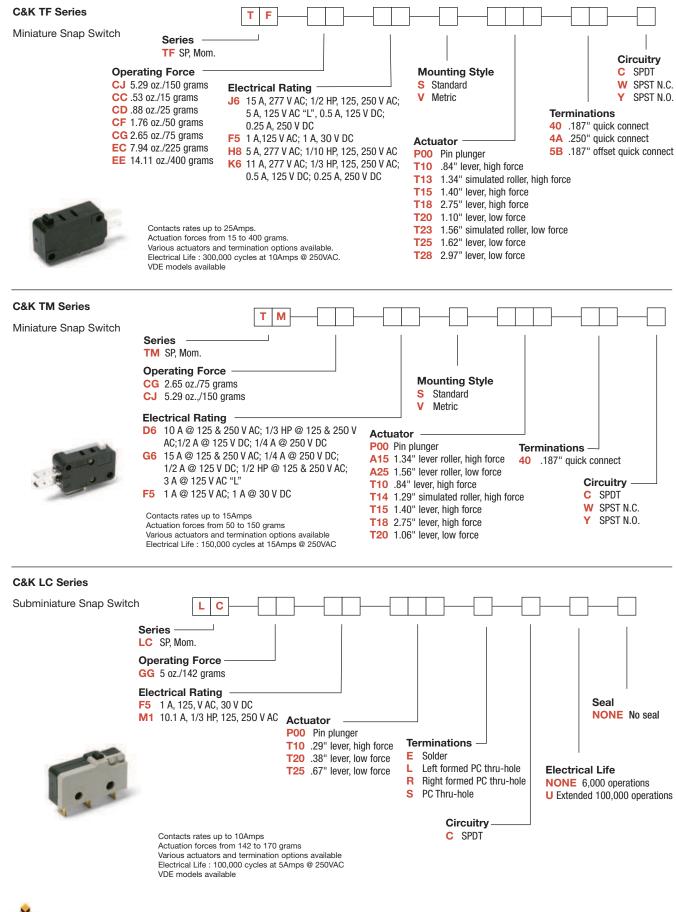


OS102011MS2QS1 Vertical, SPDT, 2mm travel, shorting, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.1A @ 12 V DC
OS102011MS2QN1 Vertical, SPDT, 2mm travel, non-shorting, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.1A @ 12 V DC
OS103011MS8QP1 Vertical, SP3T, 2mm travel, non-specified, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.1A @ 12 V DC
OS103012MU1QP1 Vertical, SP3T, 2.5mm travel, non-specified, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.2A @ 30 V DC
OS102011MA1QN1 Right angle, SPDT, 2mm travel, non-shorting, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.2A @ 30 V DC
OS103011MA7QP1 Right angle, SP3T, 2mm travel, non-specified, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.1A @ 12 V DC
OS202011MA0QN1 Right angle, DPDT, 2mm travel, non-shorting, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.1A @ 12 V DC
OS202011MA0QS1 Right angle, DPDT, 2mm travel, shorting, 4mm plastic actuator, Sn plating, 0.5u Ag plating, Contact Rating: 0.1A @ 12 V DC

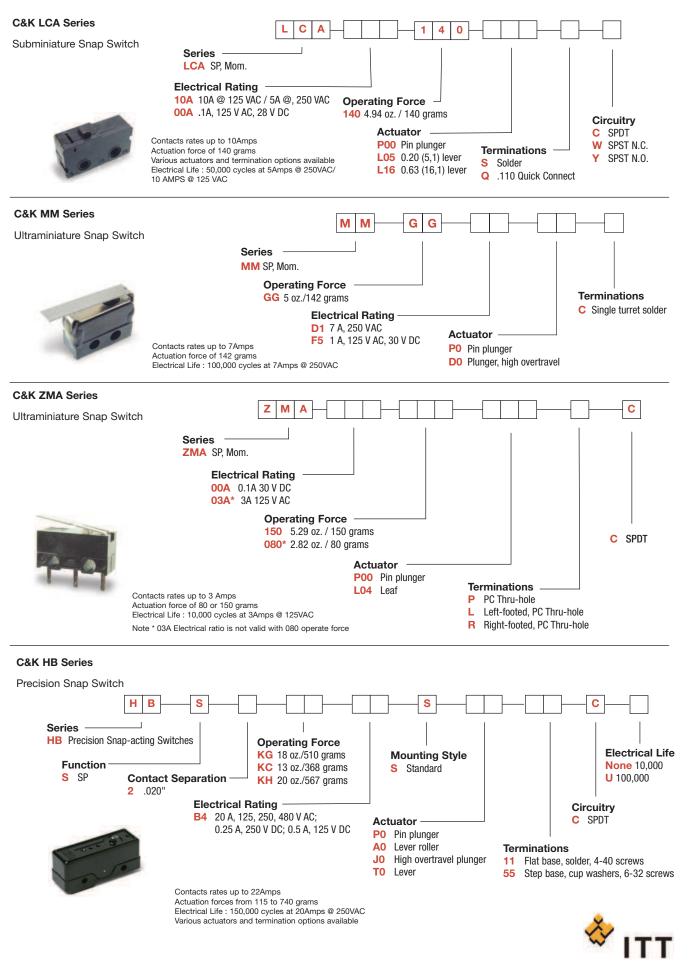


Note: Max. Switching Power: 1.2 VA; Max. Switching Voltage: 12 V DC; Max Switching Current: 100 mA; Mechanical Life: 10,000 operations.

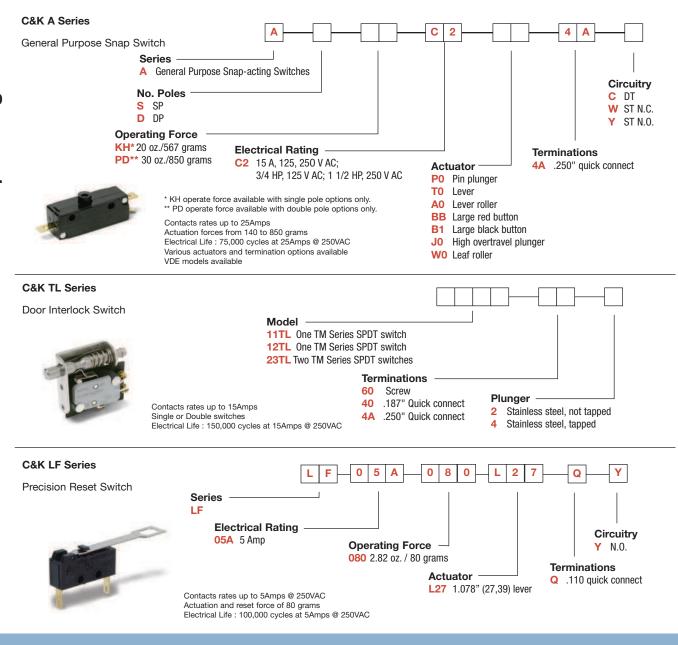




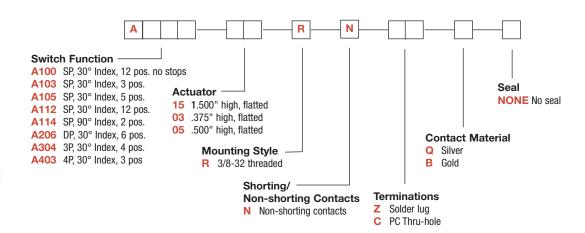






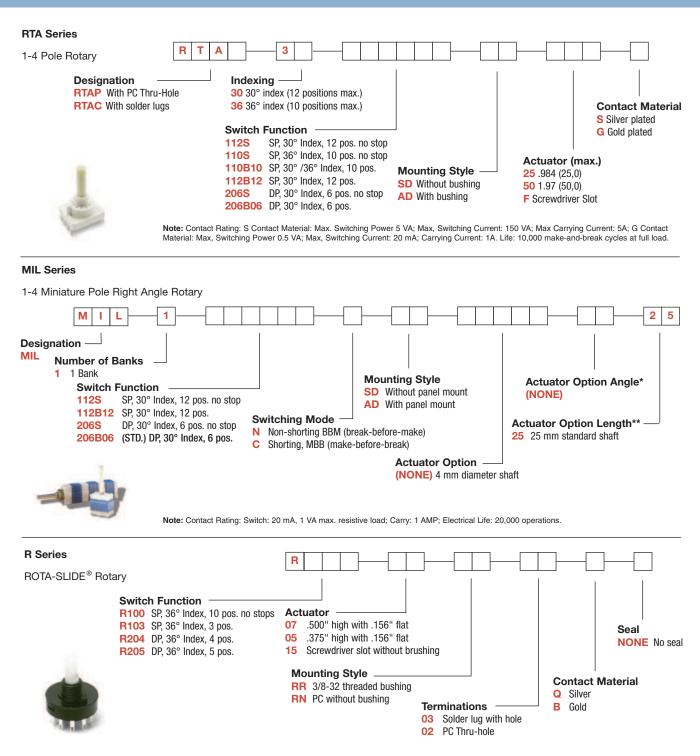






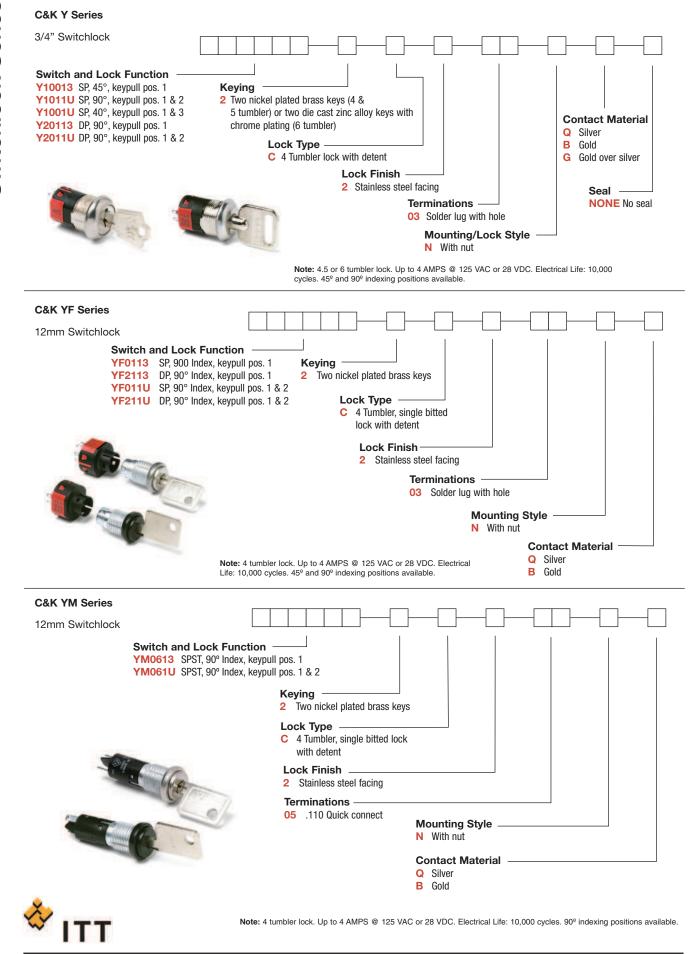


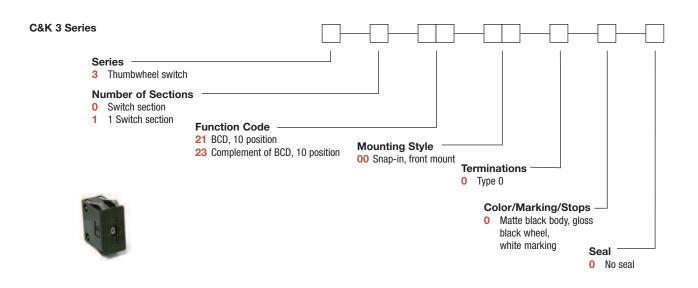
Note: Contact Rating: Q Contact Material Switch: 2.5 AMPS @ 125 VAC; 350 mA @ 125 VDC (UL/CSA); Carry: 5 AMPS continuous. B Contact Material: 0.4 VA max. @ 20 V AC or DC max. Life: 15,000 cycles.



Note: Contact Rating: Q Contact Material: 5 AMPS @ 125 V AC; 2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC; 1/8 HP @ 125 and 250 V AC (UL/CSA); Electrical Life:10,000 make-and-break cycles at full load.







Note: Contact Rating: 1 AMP continuous, 100 mA switching. Operating Voltage: 50 mV to 28 VDC or 120 VAC. Electrical Life: 100,000 actuations.



RoHS Definitions and Specifications

Technical Data

<u>RoHS compliant</u> = Lead free, cadium free, hexavalent chromium free, mercury free, poly bromide (PBB) free, and poly bromide diphenyl eyher (PBDE) free. RoHS compatible = Compatible with lead free soldering process.

REFLOW SOLDER PROFILE REQUIREMENT

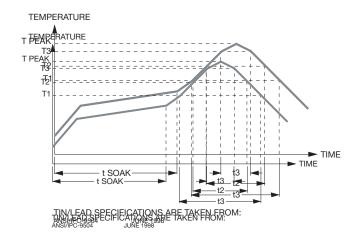
PARAMETER	REFERENCE	TIN/LEAD SPECIFICATION	LEAD FREE SPECIFICATION
Preheat Temperature Gradient		+1-4 C/sec	+1-4 C/sec
Soak Time	t Soak	2 min. max	2-3 min.
Time Above 100C		Not Specified	420 sec. max
Time Above 183C		60-120 sec.	120-180 sec.
Time Above 217C	t1 / T1	Not Specified	90 sec. max
Time Above 230C	t2 / T2	10-40 sec.	20-60 sec.
Time Above 250C	t3 / T3	0	10 sec. max
Peak Temperature	T Peak	235 -0/+5C	255 -0/+5C
Cooling Temperature Gradient		-6C/sec. max	-6C/sec. max

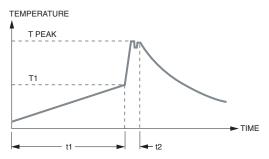
WAVE SOLDER REQUIREMENT

For Soldering Heat Resistance Testing

PARAMETER	REFERENCE	TIN/LEAD SPECIFICATION	LEAD FREE SPECIFICATION
Preheat Temperature Gradient		+1-4 C/sec.	+1-4 C/sec.
Soak Time	t1	2 min. max	2-3 min.
Preheat Temp	T1	> 90° C	> 100° C
Solder Pot Temp	T2	245° - 260° C	260° - 275° C
Solder Pot Contact Time	t2	2 - 2.5 sec.	2 - 3.5 sec.
Lead Thermal Trans. Spike		> 130° C	> 130° C
Component Body Temp		> 180° C	> 200° C
Time@ Max. Body Temp		> 10 sec.	> 10 sec.
Peak Temperature	T Peak	235° -0°/+5°C	255° -0°/+5°C
Cooling Temperature Gradient		-6C/sec. max	-6C/sec. max

Wave Solder Thermal Profile (TH Components)





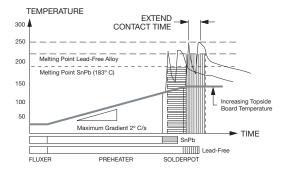
TIN/LEAD SPECIFICATIONS ARE TAKEN FROM:
ANSI/IPC-9504
COOKSON ELECTRONICS
National Electronics
Manufacturing Initiative, Inc.

SURFACE MOUNT TECHNOLOGY ASSOCIATION
COOKSON ELECTRONICS
National Electronics
Manufacturing Initiative, Inc.

WAVE SOLDER REQUIREMENT

For Soldering Heat Resistance Testing

Diference Between SnPb and Lead-Free Wave Soldering



Note: Not all of ITT's switch products have been tested to these profiles. Please refer to product section for more information.



Product Warranty

ITT, Electronic Components, a Division of ITT Inc. manufactures the highest quality products available in the marketplace, however these products are intended to be used in accordance with the specifications in this publication. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe. No information and data contained in this publication shall be construed to create any liability on the part of Electronic Components. Any new issue of this publication shall automatically invalidate and supersede any and all previous issues. A limited warranty applies to Electronic Components. Except for obligations assumed by Electronic Components under this warranty, ITT shall not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether or not based on express or implied warranty, contract, negligence, or strict liability arising in connection withthe design, manufacture, sale, use, or repair of the products. Product availability, prices and delivery dates are exclusively subject to our respective order confirmation form; the same applies to orders based on development samples delivered. This publication is not to be construed as an offer. It is intended merely as an invitation to make an offer. By this publication, Electronic Components does not assume responsibility or any liability for any patent infringements or other rights of third parties which may result from its use. Reprinting this publication is generally permitted, indicating the source. However Electronic Components' consent must be obtained in all cases.

C&K Products Only

C&K Components, Inc. (C&K) warrants its products against defects in manufacturing if the products are used for the purpose for which they were manfactured and sold. C&K will, at its option, repair or replace any of its products with a manafacturing defect. This warranty shall expire one year from the date of shipment. THIS WARRANTTY IS IN LIEU OF ALL WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MER-CHANTABILIY OR FITTNESS FOR A PAR-TICULAR PURPOSE, ALL OF WHICH ARE HEREBY EXCLUDED. SPECIFICATIONS AND PRODUCT LITERATURE REFER-RING TO, ATTACFHED TO OR FUR-NISHED WITH PRODUCTS ARE DESCRIPTIVE ONLY AND SHALL NOT BE TREATED AS WARRANTIES. The purchaser or subsequent owner or user's sole and exclusive right or remedy shall be limited to the furnishing of replacements for products found defective by C&K. No oral wavier or modification of this warranty shall have any effect whatsoever, regardless of by whom such wavier or modification is given.

This warrranty is void if any modification is made on the warranted product, regardless of whether the modification causes or contributes to the alleged defect. All modifications are made at the risk of the party making the modification. Purchaser indemnifies

and holds harmless from all claims or causes of action arising from modifications made to products which are not under the control of C&K. If purchaser buys and resells the product, purchaser agrees to inform its customers that C&K makes no express or implied warrantiesbecause of the modification. C&K's warranty is also void if product failure results

from acts or omissions of persons other than C&K, or from accident, acts of nature, abuse, misuse or misapplication of the product.

Terms and Conditions of Sale with Limitations of Remedy and Liability

- 1. The warranty provided above, or any warranty duly provided by C&K, shallconstitute the sole remedy of purchaser and any subsequent owner or user of the product; and shall be the sole liability of C&K, whether in contract, tort, strict liability, under warranty or otherwise. In no event shall C&K's liability exceed the amount of the purchase price paid to C&K by the purchaser for the allegedly defective product. C&K shall not be liable under any circumstance for special, indirect or circumstantial damages, including loss of profit or production.
- Purchaser and any subsequent owner of the product shall have no claim against C&K for any labor, downtime or expenses of any kind arising from any C&K default whatsoever, including delay shipment.
- 3. No agreements of sale or contract shall exist between C&K and purchaser until accepted by C&K. All such agreements shall be deemed to take place in Massachusetts, regardless of the origin or destination of the product.
- 4. Notwithstanding any term or condition imposed or set forth by purchaser's documents or purchase order, C&K objects and takes exception to any provision therein which conflicts with or is in addition to C&K's Terms and Conditions of Sale with Limitations of Remedy and Liability. C&K's performance of any purchase order is conditional upon the purchaser accepting all C&K's said terms, conditions and limitations. Failure of the purchaser to object to these Terms and Conditions of Sale with Limitations of Remedy and Liability within seven (7) days shall constitute full and final acceptance thereof by purchaser.
- 5. Purchaser agrees to notify all subsequent owners and users taking through purchaser of these Terms and Conditions of Sale with Limitations of Remedy and Liability and, failing to do so, shall indemnify and hold C&K harmless from all claims or causes of action by such persons which are applicable to said terms, conditions and limitations.
- 6. No product shall be returned to C&K without its prior permission. No cancellations or reschedules to open orders are permitted within factory lead time. Orders are to be scheduled for delivery within 12 months from order date.

- 7. Delivery schedules are subject to prior sale and circumstances in effect at the time the purchase order iss acceptedd by C&K. C&K shall not be held responsible for delays in delivery due to strikes; work stoppages; fires; floods; accidents; inability to obtain materials, fuels or transportation; government edict; civil unrest or any other cause unavoidable or beyond the control of C&K. C&K shall not be liable for any damages or costs based upon late delivery including instances where C&K has been informed in advance of the consequences.
- 8. Unless otherwise agreed by C&K, all payments shall be in U.S. currency in immediate funds. Payment terms, unless otherwise agreed by C&K, shall be as specified on C&K's invoices. All amounts remaining unpaid beyond said terms shall accrue interest at the rate of one and one-half (1-1/2) percent per month or the highest lawful interest rate, whichever is lesser, until paid in full. C&K's prices are exclusive of sales, excise, use, occupation, value-added or any other taxes levied on sales transactions. Purchaser must pay all such applicable taxes unless it provides C&K with a valid, current exemption certificate. C&K shall have no obligation to contest or withhold such taxes on behalf of the purchaser.
- 9. Unless otherwise specified, all shipments are F.O.B. shipping point. Loading or special packaging charges shall be for the account of purchaser. Title to and possession of the product, including all risk of loss, shall pass to purchaser upon delivery to the carrier at the point of shipment.
- 10. C&K retains a security interest in all products shipped to secure payment of the purchase price and all other amounts owed by purchaser to C&K. Purchaser agrees to cooperate with C&K in protecting this security interest.
- 11. Any and all indemnities for the benefit of C&K hereunder shall include attorneys' fees and costs, including third party and expert witness fees. Furthermore, purchaser shall reimburse C&K for its costs and attorneys' fees in collecting any sums owed by purchaser to C&K, or for enforcing these Terms and Conditions of Sale with Limitations of Remedy and Liability.

Product Safety Information refer to CD catalog or www.ittcannon.com





Switch Products Customer Support Locations

FRANCE

Arlington Square, Bâtiment B 2 Boulevard Michaël Faraday Serris F-77716 Marne-La Vallée Cedex 4

Tel: +33 (0) 1.60.24.51.51 Fax: +33 (0) 1.55.33.16.82

GERMANY

Holzhauser Strasse 26-32 D-13509 Berlin Tel: +49 (30) 43.9990

Fax: +49 (30) 43.999203

HONG KONG

Unit 901 & 912, West Tower, Shun Tak Center 168-200 Connaught Road Central, Hong Kong Tel: +852.2732.2720 Fax: +852.2732.2919

UK

Jays Close, Viables Estate Basingstoke, Hants, RG22 4BA Tel: +44.1256.311850

Fax: +44.1256.332214

USA

15 Riverdale Avenue Newton, MA 02485 Tel: 617.969-3700 Fax: 617.969.6600

www.ittcannon.com

©2006 ITT Inudustries, Inc. "Engineered for life" and "Cannon" are registered trademarks of ITT Industries, Inc. Specification and other data are based on information available at the time of printing, and are subject to change without notice.