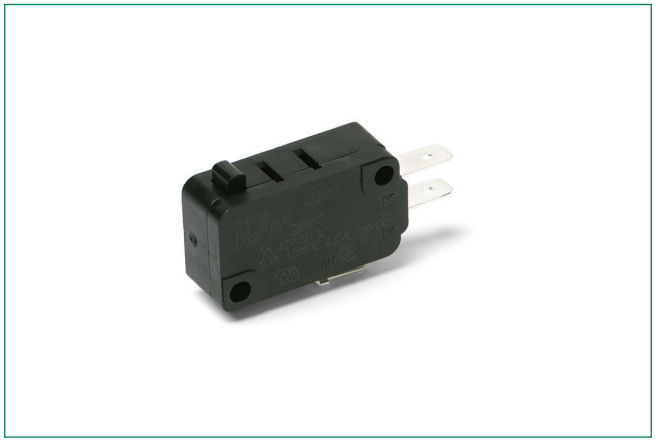
THE DATASHEET OF

TFCDH8ST1340C

TF Series
Mid Size Snap-acting Switches



Description

The TF series mid size snap-acting switch from C&K features a broad range of operating forces, ratings up to 21A and a wide variety of actuator styles to fit the specific needs of any design. Often used in motor controls, thermostatics and portable tools, designers across the globe turn to the TF series for its performance and resilience.

Features & Benefits

- Broad range of operating forces
- Ratings up to 21 AMPS
- Wide variety of actuator styles
- Quick connect terminations

Applications

- Motor controls
- Thermostatics
- Portable tools

Agency Approvals

Agency	Agency File Number
c UL us	E42363

Specifications

Contact Rating	From low level[1] to 21 AMPS @ 277 V AC.
Electrical Life	300,000 cycles at 10 AMPS @ 250 V AC, consult Customer Service Center for typical life of higher rated switches.
Insulation Resistance	1,000 M ohm min.
Dielectric Strength	1,500 Vrms min. @ sea level
Operating Temperature	-40°C to 85°C
Operating Force	From 15 to 400 grams at actuator button available
Mounting	Torque screws 2-5 in/lbs

Notes:
1. Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max. Standard electrical life per UL 1054, rated for 6,000 operations.

Materials

Switch Housing	Thermoplastic (UL 94V-0)
Actuator Button	Thermoplastic (UL 94V-0)
Spring	Copper alloy.
Pivot	Brass Alloy
Movable Contacts	Gold alloy for ratings 1 amp or less. Fine silver for ratings greater than 1 amp up to 15 amps. Precious metal alloy for ratings greater than 15 amps.
Stationary Contacts	Gold alloy for ratings 1 amp or less. Fine silver for ratings greater than 1 amp.
Terminals	Brass alloy for ratings up to 10 amps. Copper alloy for ratings greater than 10 amps.

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

TF Series
Mid Size Snap-acting Switches

Ordering Number

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.

TF - xx - xx - x - xxx - xx - x

Series
TF: SP, Mom.

Operating Force
CJ: 5.29 oz./150 grams
CC: 0.53 oz./15 grams
CD: 0.88 oz./25 grams
CF: 1.76 oz./50 grams
CG: 2.65 oz./75 grams
EC: 7.94 oz./225 grams
EE: 14.11 oz./400 grams

Electrical Rating
J6: 15 A, 277 V AC; 1/2 HP, 125, 250 V AC;5 A, 125 V AC "L", 0.5 A, 125 V DC; 0.25 A, 250 V DC
F5: 1 A,125 V AC; 1 A, 30 V DC
H8: 5 A, 277 V AC; 1/10 HP, 125, 250 V AC
J3: 21 A, 277 V AC; 1 HP, 125 V AC; 2 HP,250 V AC; 5 A, 125 V AC "L"
K6: 11 A, 277 V AC; 1/3 HP, 125, 250 V AC;0.5 A, 125 V DC; 0.25 A, 250 V DC
L3: 20 A, 250 V AC; 1 HP, 125 V AC;2 HP 250 V AC
M8: 0.1A, 125VAC; 0.1A, 30VDC

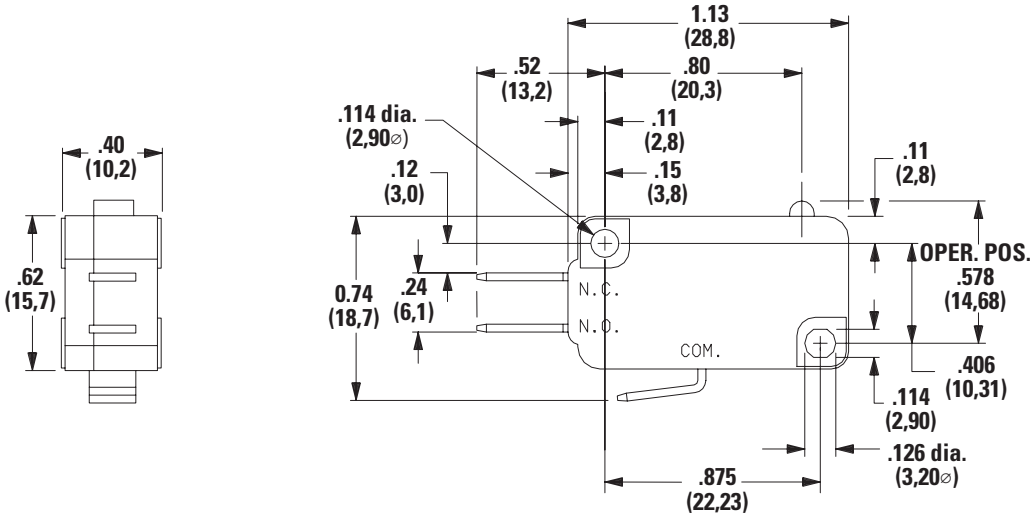
Mounting Style
S: Standard
V: Metric

Actuator
P00: Pin plunger
A10: 0.81" lever roller, high force
A15: 1.34" lever roller, high force
A20: 1.05" lever roller, low force
A25: 1.56" lever roller, low force
T10: 0.84" lever, high force
T13: 1.34" simulated roller, high force
T14: 1.29" simulated roller, high force
T15: 1.40" lever, high force
T16: 2.34" lever, high force
T18: 2.75" lever, high force
T20: 1.10" lever, low force
T23: 1.56" simulated roller, low force
T24: 1.50" simulated roller, low force
T25: 1.62" lever, low force
T26: 2.57" lever, low force
T28: 2.97" lever, low force
WP0: Wide pin plunger

Terminations
40: 0.187" quick connect
4A: 0.250"quick connect
5A: 0.250"offset quick connect
5B: 0.187" offset quick connect

Circuitry:
C: SPDT
W: SPST N.C.
Y: SPST N.O.

TF Series
Mid Size Snap-Acting Switches - SP Momentary



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Mid Size Snap-acting Switches

Operating Force

Option Code	Basic Switch Operating Force (oz./grams)
CC	0.53, 15
CD	0.88, 25
CF	1.76, 50
CG	2.65, 75
CJ	5.29, 150
EC	7.94, 225
EE	14.11, 400

Notes:
Minimums may apply, consult Customer Service Center. Operating Force option 'CC' not available with 'T18 & T26' Actuator options. Operating force varies with actuator option, see ACTUATOR option section.

Electrical Rating

Option Code	RoHS Compliant[1]	RoHS Compatible[1]	Contact Material		Electrical Rating c UL us
			Movable Contact	Stationary Contact	
F5	Yes		Gold Alloy		From low level[1] to 1 amp @ 125 V AC, 1 amp @ 30 V DC.
H8	Yes		Fine Silver	Fine Silver	5 amps @ 277 V AC; 1/10 HP @ 125 & 250 V AC.
J3					21 amps @ 277 V AC; 1 HP @ 125 V AC; 2 HP @ 250 V AC; 5 amps @ 125 V AC "L".
J6					15 amps @ 277 V AC; 1/2 HP @ 125 & 250 V AC; 5 amps @ 125 V AC "L". 0.5 amp @ 125 V DC; 0.25 amp @ 250 V DC.
K6					11 amps @ 277 V AC; 1/3 HP @ 125 & 250 V AC; 0.5 amp @ 125 V DC;0.25 amp @ 250 V DC.
L3	Yes		Silver Alloy	Fine Silver	20 amps @ 250 V AC; 1 HP @ 125 V AC; 2 HP @ 250 V AC
M8	Yes		Fine Silver	Silver Alloy	0.1AMPS @ 125VAC, 0.1AMPS @ 30V DC.

Notes: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications. All models c UL us Consult Customer Service center for availability and delivery of nonstandard ratings.
1. Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

Operating Force

Electrical Rating	Amps (REF.)	CC (15)	CD (25)	CF (50)	CG (75)	CJ (150)	EC (225)	EE (400)
F5	1	•	•	•	•	•	•	-
H8	5	•	•	•	•	•	•	•
J3	21	X	X	X	X	•	•	•
J6	15	X	X	X	X	•	•	•
K6	11	X	•	•	•	•	•	•
L3	20	X	X	X	X	•	•	•

Notes:
• Available
X Not available,
1. Available with 4A & 5A terminations only, see page 5. All models c UL us Consult Customer Service center for availability and delivery of nonstandard ratings.
2. Operating forces correlated with M8 Electrical Rating:
Please consult factory.

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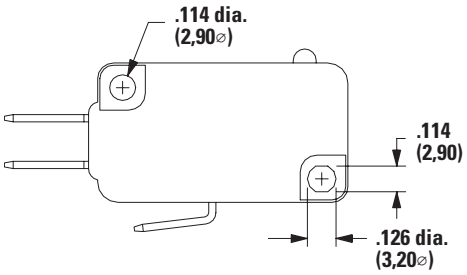
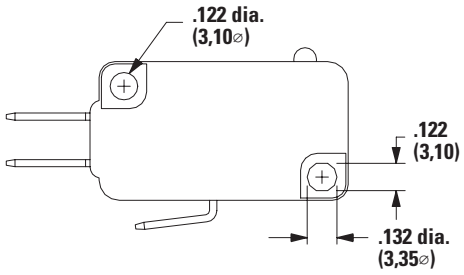
Mounting Style

S Standard for 4-40 Screw Size



V Metric for 3 mm Screw Size



Actuator

Option Code	Fig.	Dim. A	Dim. B	Dim. C	Dim. D
P00	1	0.80 (20.3)	-	0.578 ± 0.015 (14.68 ± 0.38)	-
A10	2	0.81 (20.6)	0.32 (8.1)	0.810 ± 0.020 (20.57 ± 0.51)	0.19 dia. (4.8Ø)
A15		1.34 (34.0)		0.810 ± 0.030 (20.57 ± 0.76)	
A20		1.05 (26.7)	0.54 (13.7)	0.810 ± 0.050 (20.57) ± 1.27	
A25		1.56 (39.6)		0.810 ± 0.075 (20.57 ± 1.91)	
T10	3	0.84 (21.3)	0.32 (8.1)	0.600 ± 0.020 (15.24 ± 0.51)	-
T15		1.40 (35.6)		0.600 ± 0.040 (15.24 ± 1.02)	
T16		2.34 (59.4)		0.600 ± 0.065 (15.24 ± 1.65)	
T18		2.75 (69.9)		0.600 ± 0.080 (15.24 ± 2.03)	
T20		1.10 (27.9)	0.54 (13.7)	0.600 ± 0.080 (15.24 ± 1.27)	
T25		1.62 (41.1)		0.600 ± 0.070 (15.24 ± 1.78)	
T26		2.57 (65.3)		0.600 ± 0.150 (15.24 ± 3.81)	
T28		2.97 (75.4)		0.600 ± 0.187 (15.24) ± 4.75	
T13	4	1.34 (34.0)	0.32 (8.1)	0.810 ± 0.030 (20.57 ± 0.76)	0.19 dia. (4.8Ø)
T14		1.29 (32.8)		0.730 ± 0.030 (18.54 ± 0.76)	
T23		1.56 (39.6)	0.54 (13.7)	0.810 ± 0.065 (20.57 ± 1.65)	
T24		1.50 (38.1)		0.730 ± 0.060 (18.54) ± 1.52	0.25 dia. (6.4Ø)
WP0	5	0.80 (20.3)	-	0.635 ± 0.015 (16.13 ± .038)	-

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Figure 1 - Pin Plunger

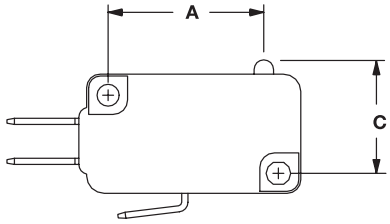


Figure 2 - Lever Roller

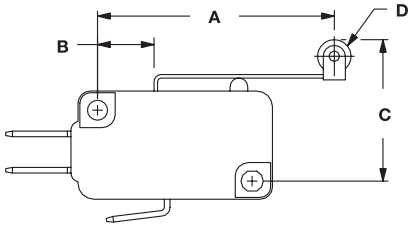


Figure 3 - Lever

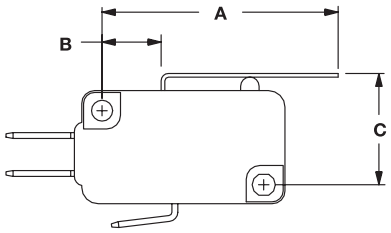


Figure 4 - Simulated Roller

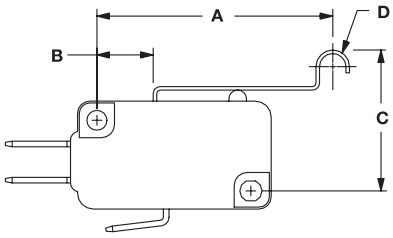
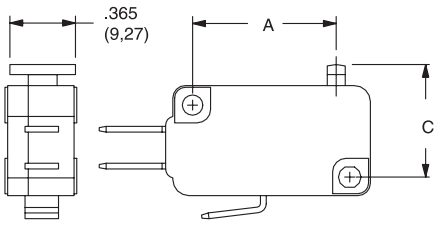


Figure 5 - Wide Pin



Note: Switch characteristics chart on following page.

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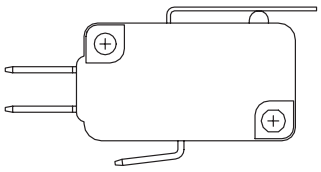
Switch Characteristics

Option Code	Max. Operating Force (oz./grams)							Min. Release Force (oz./grams)							Max. Differential Travel	Max. Pre-Travel	Min. Over Travel
	CC (15)	CD (25)	CF (50)	CG (75)	CJ (150)	EC (225)	EE (400)	CC (15)	CD (25)	CF (50)	CG (75)	CJ (150)	EC (225)	EE (400)	All Forces		
A10	0.63 18	1.06 30	2.29 65	3.17 90	6.35 180	7.94 225	14.11 400	0.21 6	0.35 10	0.35 10	0.53 15	0.71 20	1.98 56	3.88 110	0.015 (0.38)	0.060 (1.52)	0.030 (0.76)
A15	0.28 8	0.42 12	1.06 30	1.59 45	3 85	4.59 130	7.94 225	0.07 2	0.14 4	0.14 4	0.18 5	0.35 10	0.71 20	2.82 80	0.030 (0.76)	0.100 (2.54)	0.065 (1.65)
A20	0.53 15	0.71 20	1.41 40	2.12 60	4.23 120	6 170	9.7 275	0.07 2	0.11 3	0.11 3	0.18 5	0.42 12	0.71 20	1.41 40	0.025 (0.64)	0.12 (3.05)	0.055 (1.40)
A25	0.18 5	0.28 8	56 16	85 24	1.69 48	2.65 75	4.41 125	0.04 1	0.07 2	0.07 2	0.07 2	0.21 6	0.35 10	0.71 20	0.050 (1.27)	0.250 (6.35)	0.120 (3.05)
P00	00.53 15	0.88 25	1.76 50	2.65 75	5.29 150	7.94 225	14.11 400	0.21 6	0.35 10	0.35 10	0.53 15	1.23 35	1.98 56	3.88 110	0.010 (0.25)	0.047 (1.19)	0.050 (1.27)
T10	0.63 18	1.06 30	2.29 65	3.17 90	6.35 180	7.94 225	14.11 400	0.21 6	0.35 10	0.35 10	0.53 15	0.71 20	1.98 56	3.88 110	0.015 (0.38)	0.060 (1.52)	0.030 (0.76)
T13	0.28 8	0.42 12	1.06 30	1.59 45	3 85	4.59 130	7.94 225	0.07 2	0.14 4	0.14 4	0.18 5	0.35 10	0.71 20	2.82 80	0.030 (0.76)	0.100 (2.54)	0.065 (1.65)
T14	0.28 8	0.42 12	1.23 35	1.76 50	3.17 90	4.76 135	7.94 225	0.07 2	0.14 4	0.14 4	0.18 5	0.35 10	0.71 20	2.82 80	0.030 (0.76)	0.100 (2.54)	0.060 (1.52)
T15	0.25 7	0.42 12	1.06 30	1.41 40	2.82 80	4.41 125	7.94 225	0.07 2	0.14 4	0.14 4	0.18 5	0.28 8	0.63 18	2.82 80	0.030 (0.76)	0.110 (2.79)	0.065 (1.65)
T16	0.18 5	0.28 8	0.53 15	0.78 22	1.59 45	2.47 70	4.23 120	0.04 1	0.07 2	0.07 2	0.07 2	0.28 8	0.35 10	0.71 20	0.045 (1.14)	0.250 (6.35)	0.125 (3.18)
T18	N/A	0.21 6	0.42 12	0.71 20	1.41 40	2.12 60	3.53 100	N/A	0.04 1	0.04 1	0.07 2	0.18 5	0.28 8	0.56 16	0.062 (1.57)	0.300 (7.62)	0.155 (3.94)
T20	0.53 15	0.71 20	1.41 40	2.12 60	4.23 120	6 170	9.70 275	.21 6	0.35 10	0.35 10	0.53 15	0.71 20	1.98 56	3.88 110	0.030 (0.76)	0.140 (3.56)	0.060 (1.52)
T23	0.18 5	0.28 8	0.56 16	0.85 24	1.69 48	2.65 75	4.41 125	.04 1	0.07 2	0.07 2	0.07 2	0.21 6	0.35 10	0.71 20	0.050 (1.27)	0.250 (6.35)	0.120 (3.05)
T24	0.18 5	0.28 8	0.56 16	0.88 25	1.76 50	2.65 75	4.76 135	0.04 1	0.07 2	0.07 2	0.11 3	0.21 6	0.35 10	0.71 20	0.005 (1.27)	0.23 (5.84)	0.11 (2.79)
T25	0.18 5	0.28 8	0.53 15	0.88 25	1.59 45	2.47 70	4.23 120	0.04 1	0.07 2	0.07 2	0.07 2	0.21 6	0.35 10	0.99 28	0.055 (1.40)	0.250 (6.35)	0.125 (3.18)
T26	N/A	0.14 4	0.28 8	0.42 12	0.85 24	1.27 36	2.26 64	N/A	0.04 1	0.04 1	0.05 1.5	0.12 3.5	0.21 6	0.39 11	0.100 (2.54)	0.500 (12.70)	0.235 (5.97)
T28	N/A	N/A	N/A	0.42 12	0.71 20	1.06 30	1.94 55	N/A	N/A	N/A	0.04 1	0.11 3	0.18 5	0.32 9	0.12 (3.05)	0.560 (14.22)	0.285 (7.24)
WP0	0.53 15	0.88 25	1.76 50	2.65 75	5.29 150	7.94 225	14.11 400	0.21 6	0.35 10	0.35 10	0.53 15	1.23 35	1.97 56	3.88 110	0.010 (0.25)	0.047 (1.19)	0.030 (0.51)

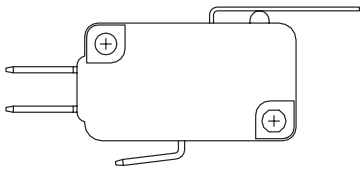
Note: For basic switch operating forces, see page 3.

High Force, Low Motion Pivot Position



Available with actuators A10, A15, T10, T13, T14, T15, T16 and T18.

Low Force, High Motion Pivot Position



Available with actuators A20, A25, T20, T23, T24, T25, T26, and T28.

Notes: Lever actuator options are available in either of two pivot positions. Levers located in the forward pivot position have lower forces and higher motions. Levers located in the rear pivot position have higher forces and lower motions.

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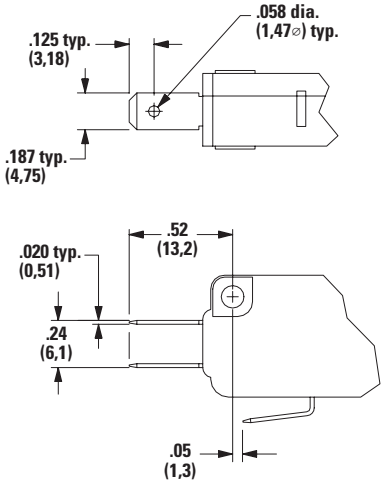
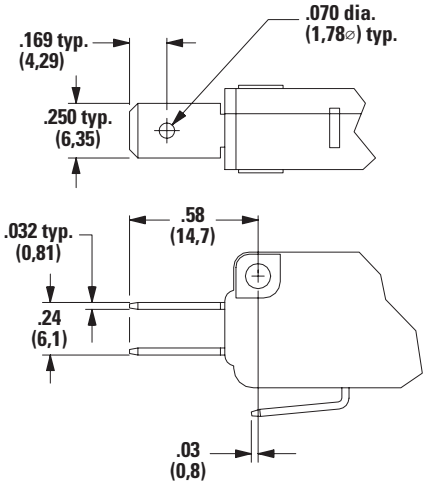
Mid Size Snap-acting Switches

Terminations

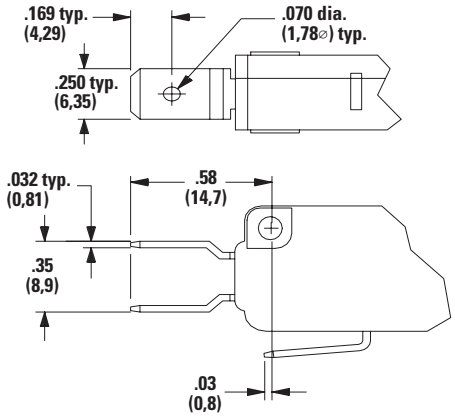
40 0.187" Quick Connect



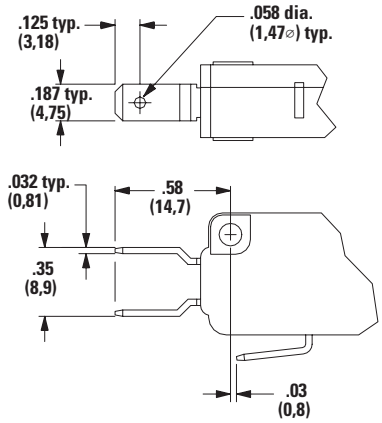
4A 0.250" Quick Connect



5A Offset 0.250" Quick Connect



5B Offset 0.187" Quick Connect



Circuitry

C SPDT (Single Pole, Double Throw)
W SPST N.C. (Single Pole, Single Throw Normally Closed)
Y SPST N.O. (Single Pole, Single Throw Normally Open)

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