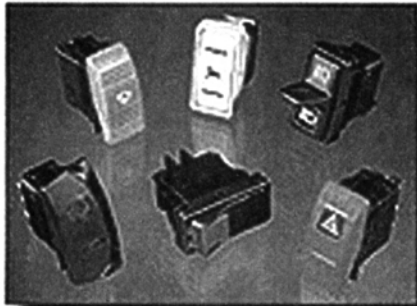


V-Series



V Series



CONTURA Series

The V-Series CONTURA rocker switches offer countless unique options including choices for ratings, colors, illuminations and symbols. These switches feature removable actuators in a choice of actuator styles and colors, are available in single or double pole configurations, and can be illuminated with either square or bar shaped lenses. An optional plug-in terminal connector enables pre-wiring of wire harness.

All CONTURA switches, with sealed front panel components, are certified to IP66 and IP68, signifying complete protection against dust and prolonged spray and submersion under pressure, and are recognized to UL1500 - Ignition Protection for Marine Products. These switches are vibration, shock, thermo-shock, moisture and salt spray resistant.

The CONTURA II and III actuators are available with optional "soft-touch" surfaces, optional lock-on terminal connector, and actuator removal tools.

The CONTURA X and XI versions are available with one-piece bar lenses, or square lenses in either one or two part construction with back-lit legends, for increased durability of lens symbols. In addition, the CONTURA X and XI actuators also fit on the CONTURA II and CONTURA III base. Thus, actuators and square lenses may be purchased and stocked separately from the base assembly.

The CONTURA X and XI versions include a raised bracket/bezel which helps prevent inadvertent actuation of the rocker.

CONTURA Rocker Switches

Specifications

- **Certifications*:**
UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO, BEAB
- **Dielectric Strength:** 2,000 V RMS opposite polarity; 4,000 V RMS between live parts & operator accessible surface.
- **Insulation Resistance:** 50 Megohms
- **Function:** SPST, DPST, SPDT, DPDT, SP3T, other circuits available, consult factory.
- **Operation:** Two & three positions - maintained & momentary
- **Lighted:** incandescent rated 10,000 hours; Neon rated 25,000 hours; LED rated 100,000 hours 1/2 life (LED is internally ballasted for voltages to 24VDC).
- **Seals:** available with internal seal & optional external gasket panel seal.
- **Mounting:** Snap-in mounting with flexible mounting wings suitable for panel thickness ranges of 0.30" to 0.187" (0.76mm to 4.75 mm). Mounting hole dimensions are 1.450" by 0.830" (36.83 x 21.08mm).
- **Base Material:** Polyester
- **Actuator Material:**
CONTURA II and III:
Underlay/Lens: Polycarbonate
Hard overlay: Type 66 Nylon
Soft overlay: Thermoplastic elastomer
CONTURA X and XI:
Nylon
Lens Material: Polycarbonate
- **Bracket/Bezel Material:** Type 66 Nylon
- **Temperature Ratings:** -40°C to 85°C

CONTURA switches are designed and tested in accordance with requirements of specification MIL STD 202F as follows:

- **Vibration:** Method 204D, Test Condition A 0.06 DA or 10G's. 10-500 Hz. Tested with VCH connector. Test criteria - No loss of circuit during test and pre and post test contact resistance.
- **Shock:** Method 213B, Test Condition K @ 30 G's. Tested with VCH connector. Test criteria - No loss of circuit during test and pre and post test contact resistance.
- **Salt Spray:** Method 101D, Test Cond. A, 48 Hrs. Sealed Version only.
- **Thermal Shock:** Method 107F, Test Cond. A, -55° to + 85°C. Test Criteria - pre and post contact resistance.
- **Moisture Resistance:** Method 106E. Test criteria - pre and post test contact resistance.

* Due to ongoing technological advances, consult factory for certification specifics.

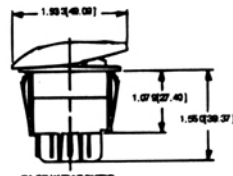
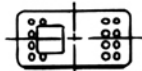
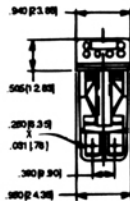
2

SWITCHES & KNOBS

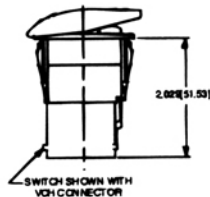
Dimensional Specifications: in. [mm]

CONTURARocker Switch

CONTURA I STYLE
SHOWN WITH
SQUARE LENS

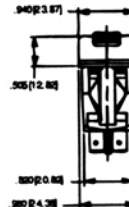


BASE W/ BAR LENS

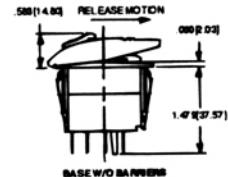
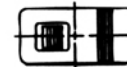


SWITCH SHOWN WITH
VOH CONNECTOR

CONTURA II STYLE
SHOWN WITH
LOCKING ROCKER

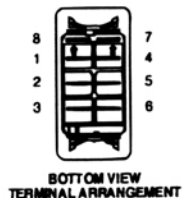
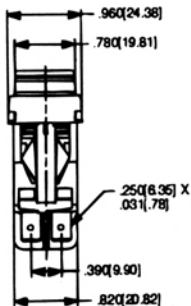


BOTTOM VIEW
TERMINAL ARRANGEMENT

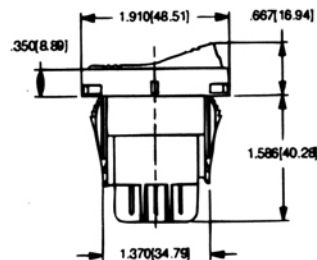
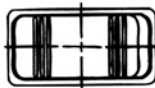


BASE W/O BAR LENS

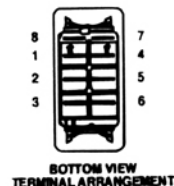
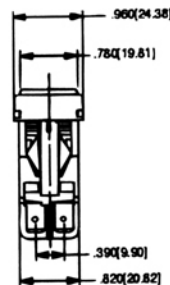
CONTURA X STYLE
SHOWN WITH RAISED
BRACKET AND BAR LENS



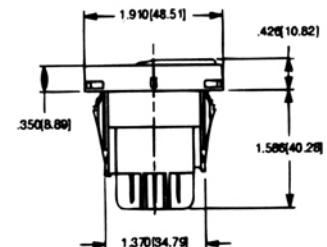
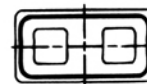
BOTTOM VIEW
TERMINAL ARRANGEMENT



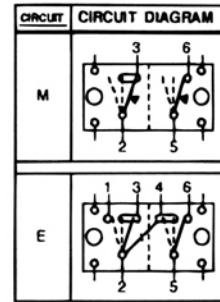
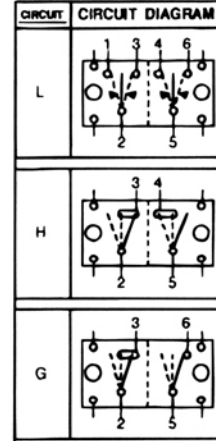
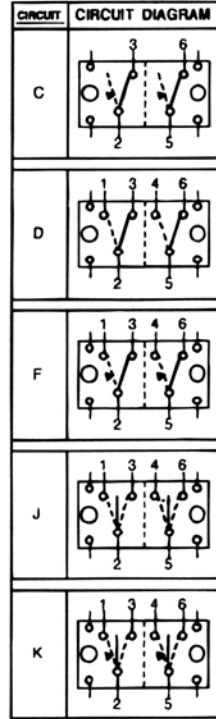
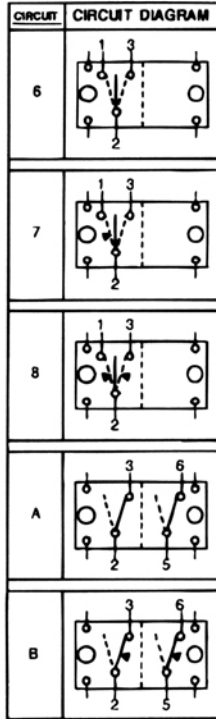
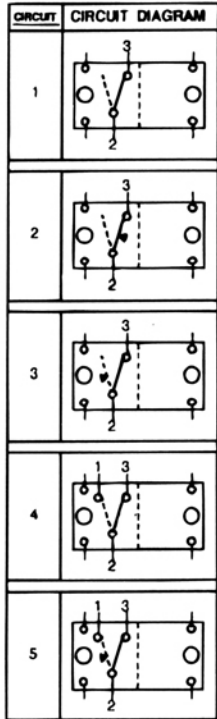
CONTURA X2 STYLE
SHOWN WITH RAISED
BRACKET AND TWO
SQUARE LENSES



BOTTOM VIEW
TERMINAL ARRANGEMENT

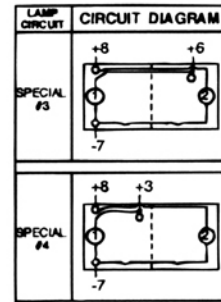
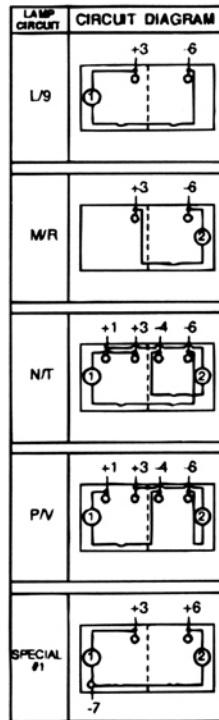
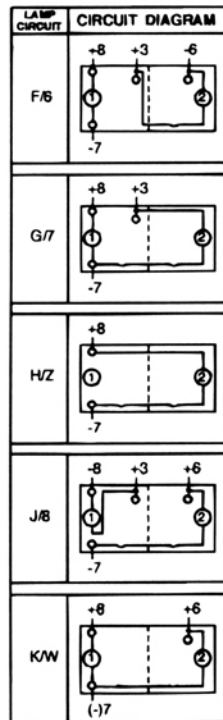
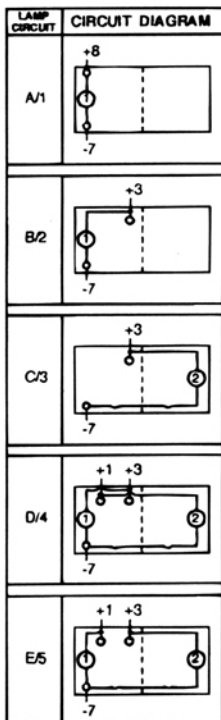


Circuit Diagrams



SYMBOL LEGEND	
SYM.	DEFINITION
	DESIGNATES TERMINALS AND CONTACTS
	DESIGNATES LAMP LOCATION
	DESIGNATES MAINTAINED CIRCUITS
	DESIGNATES OTHER POSITION
	DESIGNATES MOMENTARY CIRCUITS
	DESIGNATES TWO POSITION CONNECTION
	DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER

Lamp Circuits



SYMBOL LEGEND	
SYM.	DEFINITION
	DESIGNATES TERMINALS AND CONTACTS
	DESIGNATES LAMP LOCATION

OTHER CIRCUITS AVAILABLE.
CONSULT FACTORY.

2 SWITCHES & KNOBS

CONTURA II & III Rocker Switches

V 1 SERIES
1
D
A

V

2 CIRCUIT

Terminal Connections as viewed from bottom of switch:

8 - - 7
1 - - 4
2 - - 5
3 - - 6

SP - single pole - uses terminals 1, 2 & 3.

DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.

Terminals 7 & 8 for lamp circuit only.

Position:	1	2	3
	2 & 3	CONNECTED	1 & 2
	5 & 6	TERMINALS	4 & 5
1 A	ON	NONE	OFF
2 B	(ON)	NONE	OFF
3 C	ON	NONE	(OFF)
4 D	ON	NONE	ON
5 F	ON	NONE	(ON)
6 J	ON	OFF	ON
7 K	ON	OFF	(ON)
8 L	(ON)	OFF	(ON)

SPECIAL CIRCUITS

H*	2 & 3	2 & 3, 5 & 4	5 & 4
G*	2 & 3, 5 & 6	2 & 3	OFF
M*	(2 & 3, 5 & 6)	2 & 3	OFF
E*	5 & 6	5 & 3	5 & 1

* Jumper between terminals 2 & 5 for circuits H, G, & M to be specified in selection 4. External jumper between terminals 2 & 4 for circuit E are to be provided by customer. Circuit E may be used for SP OFF-ON-ON circuit. Special circuits H, M and E not available with ratings 5 through 9.

3 RATING

4	10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP No Agency Listings
5	10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP UL Recognized, CSA Certified
6*	15A 125VAC 1/2 HP, 12(2)A 125 VAC μ T85
7*	15A 125VAC 1/2 HP, 12(6)A 125 VAC T85
8*	10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC, 12(2)A 250 VAC μ T85
9*	10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC, 12(6)A 250 VAC T85
B	15A 24V
C	20A 18V
D	20A 12V
G	20A 6V
H	20A 3V

* Ratings 6, 7, 8 & 9 are UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO and BEAB certified. Rating 6 & 8 available with circuits 2, 3, 5, 6, 7, 8, B, C, F, J, K, L only. Rating 8 is 1/2 HP, 250VAC only for circuits 2, 3, 5, 7, 8, K, L. Ratings 7 & 9 available with circuits 1, 4, A, D. Ratings 6 & 7 only available with lamp code 1 (125VAC neon). Ratings 8 & 9 only available with lamp code 2 (250VAC neon).

4 TERMINATION & JUMPER

TERMINATION	JUMPER
1 .250TAB (QC) NO BARRIERS	NO
A .250TAB (QC) WITH BARRIERS	NO
J .250TAB (QC) NO BARRIERS	YES T2 TO 5

NOTE: Base will not have terminal insulating barriers when connector and/or jumpers are used. Code J is optional for circuits H, G and M. Customer may provide externally wired jumper to connect terminals 2 and 5.

B 6 0 B

5 ILLUMINATION & SWITCH SEALING

Lamp #1 located above terminals 1 & 4 end of switch.

Lamp #2 located above terminals 3 & 6 end of switch.

Positive (+) and negative (-) symbols apply to LED lamps only.

SEALED	UNSEALED	LAMPS	ACTUATOR LENS POSITION WHEN ILLUMINATED	LAMP WIRE TO TERMINALS
S	0	None		
A	1	# 1	Independent	8+ 7-
B	2	# 1	Down	3+ 7-
C	3	# 2	Up	3+ 7-
D	4	# 1	Down	3+ 7-
		and # 2	Down	1+ 7-
E	5	# 1	Up	1+ 7-
		and # 2	Up	3+ 7-
F	6	# 1	Independent	8+ 7-
		and # 2	Up	3+ 6-
G	7	# 1	Independent	8+ 7-
		and # 2	Up	3+ 7-
H	Z	# 2	Independent	8+ 7-
Selections for Single Pole Switches Only:				
J	8	# 1	Down	3+ 8-
		and # 2	Independent	6+ 7-
K	W	# 1	Independent	8+ 7-
		and # 2	Independent	6+ 7-
Selections for Double Pole Switches Only:				
L	9	# 1	Down	3+ 6-
M	R	# 2	Up	3+ 6-
N	T	# 1	Down	3+ 6-
		and # 2	Down	1+ 4-
P	V	# 1	Up	1+ 4-
		and # 2	Up	3+ 6-

6, 7 LAMP

Selection 6: above terminals 1 & 4

Selection 7: above terminals 3 & 6

USE SAME CODING FOR BOTH SELECTIONS

0 - NO LAMP THIS LOCATION

NEON	INCANDESCENT*
1 - 125VAC	4 - 3V
2 - 250VAC	5 - 6V
	6 - 12V
	7 - 18V
	8 - 24V

LED

	RED	AMBER	SUPERBRIGHT GREEN	SUPERBRIGHT RED
2VDC	A	L	F	R
6VDC	B	M	G	S
12VDC	C	N	H	T
24VDC	D	P	J	V

8 BRACKET COLOR¹, PANEL SEAL

FLUSH BRACKET
(CONTURA II, III)

# OF SEALS:	0	1
BRACKET COLOR:		
BLACK	B	C
WHITE	W	Y
GRAY	G	H

Mounting Hole Size: 1.450" x 0.830"

36.83mm 21.08mm

To mount multiple switches in single panel cut-out order optional interlocking mounting panels.

# OF GASKETS	ACCEPTABLE PANEL THICKNESS RANGE
0	.030" to .250"
	.76mm 4.76mm

1	.030" to .109" & .147" to .157"
	.76mm 2.77mm 3.73mm 3.98mm

2

SWITCHES & KNOBS

CONTURA II & III Rocker Switches

A

9 ACTUATOR

0 - NO ACTUATOR (FURNISHED SEPARATELY)

CONTURA II **A**

CONTURA III **B**

C

D

Actuator orientation above terminals: 3,6 1,4

10 LENS

Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

0 - NO ACTUATOR	Z - NO LENS	Lens Location & Style:
CLEAR WHITE AMBER GREEN RED BLUE		
1 6 B G M T		
2 7 C H N U		
3 8 D J P V		

Square lens options available only for Contura II:

4 9 E K R W	
5 A F L S Y	

11 ACTUATOR COLOR AND TEXTURE

0 - NO ACTUATOR	SOFT SURFACE	HARD SURFACE
BLACK	B	C
GRAY	G	H
RED	R	S
WHITE	W	Y

12 ACTUATOR LENS OR BODY LEGENDS*

00 - NO LEGEND THIS LOCATION/NO ACTUATOR

11 ON 15 O O	
OFF F F N	
12 OFF 16 O O	
ON N F F	
13 17 O	
O	
14 O 18 O	

FOR ADDITIONAL LEGEND OPTIONS & CODES, SEE PAGES 19 TO 25.

NOTES:

Shading indicates standard configurations.

Consult factory to verify horsepower rating for your particular circuit choice.

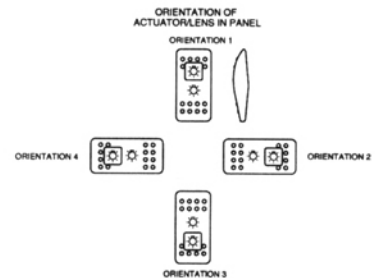
- Custom colors are available. Consult factory.
- Not available on Soft surface actuators. White imprinting is standard on black actuators. Black imprinting is standard on white, red and gray actuators. Custom colors are available. Consult factory.
- 18V bulbs recommended for 13.8 V applications for sharper illumination.
- For CONTURA II with square lens: Orientation 1 & 2 only available with actuators A & C from selection 9; Orientation 3 & 4 only available with actuators B & D from selection 9.

13 LEGEND ORIENTATION*

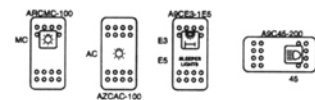
Field 13 must be 0 if legend code in selection 12 is 11 - 18.

0 - NO LEGEND

- Orientation 1
- Orientation 2
- Orientation 3
- Orientation 4



EXAMPLES:



* Additional orientations and locations for legends available, consult factory.

14 ACTUATOR LENS LEGENDS*

Field 14 must be 00 if legend code in selection 12 is 11 - 18.

00 - NO LEGEND THIS LOCATION/NO ACTUATOR

Selection 14 required when switch requires two legends. If the two legends consist of one lens and one body legend, lens legend must be specified in selection 12; body legend specified in selection 14.

FOR LEGEND OPTIONS & CODES, SEE PAGES 19 TO 25.

V-Series Components:

To order **switch without actuator** specify:
V with code selections 2 through 8.
(ex.) V1DABC0B-00000-000

To order **actuator separately** specify:
VV with code **A** or **C** only for selection 9,
and codes from above scheme for selections
10 through 14.
(ex.) VVARBMA-100

V **1** **D** **A**

1 SERIES

V

2 CIRCUIT

Terminal Connections as viewed from bottom of switch:

8 - -7
1 - -4
2 - -5
3 - -6

SP - single pole - uses terminals 1, 2 & 3.

DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.

Terminals 7 & 8 for lamp circuit only.

Position:	1	2	3
	2 & 3	CONNECTED	1 & 2
	5 & 6	TERMINALS	4 & 5
1 A	ON	NONE	OFF
2 B	(ON)	NONE	OFF
3 C	ON	NONE	(OFF)
4 D	ON	NONE	ON
5 F	ON	NONE	(ON)
6 J	ON	OFF	ON
7 K	ON	OFF	(ON)
8 L	(ON)	OFF	(ON)

SPECIAL CIRCUITS

H*	2 & 3	2 & 3, 5 & 4	5 & 4
G*	2 & 3, 5 & 6	2 & 3	OFF
M*	(2 & 3, 5 & 6)	2 & 3	OFF
E*	5 & 6	5 & 3	5 & 1

* Jumper between terminals 2 & 5 for circuits H, G, & M to be specified in selection 4. External jumper between terminals 2 & 4 for circuit E are to be provided by customer. Circuit E may be used for SP OFF-ON-ON circuit. Special circuits H, M and E not available with ratings 5 through 9.

3 RATING

4	10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP No Agency Listings
5	10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP UL Recognized, CSA Certified
6*	15A 125VAC 1/2 HP, 12(2)A 125 VAC μ T85
7*	15A 125VAC 1/2 HP, 12(6)A 125 VAC T85
8*	10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC, 12(2)A 250 VAC μ T85
9*	10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC, 12(6)A 250 VAC T85
B	15A 24V
C	20A 18V
D	20A 12V
G	20A 6V
H	20A 3V

* Ratings 6, 7, 8 & 9 are UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO and BEAB certified. Rating 6 & 8 available with circuits 2, 3, 5, 6, 7, 8, B, C, F, J, K, L only. Rating 8 is 1/2 HP, 250VAC only for circuits 2, 3, 5, 7, 8, K, L. Ratings 7 & 9 available with circuits 1, 4, A, D only. Ratings 6 & 7 only available with lamp code 1 (125VAC neon). Ratings 8 & 9 only available with lamp code 2 (250VAC neon).

4 TERMINATION & JUMPER

TERMINATION	JUMPER
1 .250TAB (QC) NO BARRIERS	NO
A .250TAB (QC) WITH BARRIERS	NO
J .250TAB (QC) NO BARRIERS	YES T2 TO 5

NOTE: Base will not have terminal insulating barriers when connector and/or jumpers are used. Code J is optional for circuits H, G and M. Customer may provide externally wired jumper to connect terminals 2 and 5.

CONTURA X & XI Rocker Switches

B **6** **0** **B** **-**

5 ILLUMINATION & SWITCH SEALING

Lamp #1 located above terminals 1 & 4 end of switch.
Lamp #2 located above terminals 3 & 6 end of switch.
Positive (+) and negative (-) symbols apply to LED lamps only.

SEALED	UNSEALED	LAMPS	ACTUATOR LENS POSITION WHEN ILLUMINATED	LAMP WIRED TO TERMINALS
S	0	None		
A	1	# 1	Independent	8+ 7-
B	2	# 1	Down	3+ 7-
C	3	# 2	Up	3+ 7-
D	4	# 1 and # 2	Down	3+ 7-
E	5	# 1 and # 2	Up	1+ 7-
F	6	# 1 and # 2	Up	3+ 7-
G	7	# 1 and # 2	Independent	8+ 7-
H	Z	# 2	Up	3+ 7-
			Independent	8+ 7-
Selections for Single Pole Switches Only:				
J	8	# 1 and # 2	Down	3+ 8-
K	W	# 1 and # 2	Independent	6+ 7-
			Independent	8+ 7-
Selections for Double Pole Switches Only:				
L	9	# 1	Down	3+ 6-
M	R	# 2	Up	3+ 6-
N	T	# 1 and # 2	Down	3+ 6-
P	V	# 1 and # 2	Down	1+ 4-
			Up	1+ 4-
			Up	3+ 6-

6, 7 LAMP

Selection 6: above terminals 1 & 4

Selection 7: above terminals 3 & 6

USE SAME CODING FOR BOTH SELECTIONS

0 - NO LAMP THIS LOCATION

NEON	INCANDESCENT*
1 - 125VAC	4 - 3V
2 - 250VAC	5 - 6V
	6 - 12V
	7 - 18V
	8 - 24V

LED	RED	AMBER	SUPERBRIGHT GREEN	SUPERBRIGHT RED
2VDC	A	L	F	R
6VDC	B	M	G	S
12VDC	C	N	H	T
24VDC	D	P	J	V

8 BRACKET COLOR, PANEL SEAL

	RAISED BRACKET	FLUSH BRACKET
# OF SEALS:	0 1	0 1
BRACKET COLOR:		
BLACK	1 4	B C
WHITE	2 5	W Y
GRAY	3 6	G H

Mounting Hole Size: 1.450" x 0.830"
36.83mm 21.08mm

To mount multiple switches in single panel cut-out order optional interlocking mounting panels.

# OF GASKETS	ACCEPTABLE PANEL THICKNESS RANGE
0	.030" to .250"
	.76mm 4.76mm
1	.030" to .109" & .147" to .157"
	.76mm 2.77mm 3.73mm 3.98mm

CONTURA X & XI Rocker Switches

6

9 ACTUATOR

0 - NO ACTUATOR (FURNISHED SEPARATELY)

	BLACK	GRAY	WHITE	RED
CONTURA X	1	2	3	4
CONTURA XI	6	7	8	9

10 LENS - ABOVE LAMP #1 TERMINALS 1,4

11 LENS - ABOVE LAMP #2 TERMINALS 3,6

0 - NO ACTUATOR Z - NO LENS

	CLEAR	WHITE	AMBER	GREEN	RED	BLUE	LENS STYLE
3	8	D	J	P	V		BAR LENS I
4	9	E	K	R	W		ONE PIECE SQUARE LENS
5	A	F	L	S	Y		TWO PIECE SQUARE LENS w/clear top protective lens*
2	7	C	H	N	U		TWO PIECE SQUARE LENS w/smoke top protective lens*
1	6	B	G	M	T		TWO PIECE SQUARE LENS w/white top protective lens*

* ALL bottom lenses will be molded of OPAQUE material.
Consult factory for other lens colors.

12 ACTUATOR LENS OR BODY LEGENDS⁴

00 - NO LEGEND THIS LOCATION/NO ACTUATOR

11	ON	15	O	O
	OFF		F	N
12	OFF	16	O	O
	ON		N	F
13	I	17	O	I
	O			
14	O	18	I	O
	I			

FOR ADDITIONAL LEGEND OPTIONS & CODES, SEE PAGES 19 TO 25.

NOTES:

Shading indicates standard configurations.

Consult factory to verify horsepower rating for your particular circuit choice.

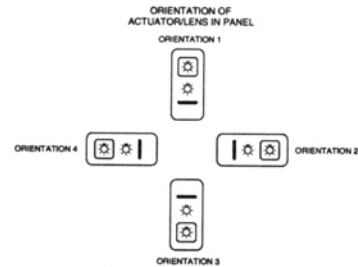
- Custom colors are available. Consult factory.
- Not available on Soft surface actuators.
White imprinting is standard on black actuators.
Black imprinting is standard on white, red and gray actuators.
Custom colors are available. Consult factory.
- 18V bulbs recommended for 13.8 V applications for more pleasing illumination.
- With two square lenses, use selection 12 for lens above lamp 1, and use selection 14 for lens above lamp 2.

13 LEGEND ORIENTATION⁴

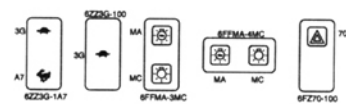
Field 13 must be 0 if legend code in selection 12 is 11 - 18.

0 - NO LEGEND

- Position 1
- Position 2
- Position 3
- Position 4



EXAMPLES:



* Additional orientations and locations for legends available, consult factory.

14 ACTUATOR LENS LEGENDS⁴

Field 14 must be 00 if legend code in selection 12 is 11 - 18.

00 - NO LEGEND THIS LOCATION/NO ACTUATOR

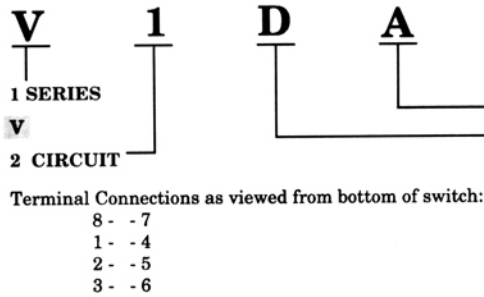
FOR LEGEND OPTIONS & CODES, SEE PAGES 19 TO 25.

V-Series Components:

To order **switch without actuator** specify:
V with code selections **2** through **8**.
(ex.) V1DABC01-00000-000

To order **actuator separately**, specify **VV**
VV with code **1-4** or **6-9** for selection 9, and
codes from above scheme for selections 10
through 14. (ex.) VV6RZMA-100. To order
actuator with openings for lenses and lenses
separately

CONTURA II & III Locking Rocker Switches



SP - single pole - uses terminals 1, 2 & 3.
DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
Terminals 7 & 8 for lamp circuit only.

Position:	1	2	3 (lock position)
	2 & 3	CONNECTED	1 & 2
SP DP	5 & 6	TERMINALS	4 & 5
1 A	ON	NONE	OFF
2 B	(ON)	NONE	OFF
3 C	ON	NONE	(OFF)
4 D	ON	NONE	ON
5 F	ON	NONE	(ON)
9 N	OFF	NONE	ON

3 RATING

- 4 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP
No Agency Listings
- 5 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP
UL Recognized, CSA Certified
- 6* 15A 125VAC 1/2 HP, 12(2)A 125 VAC μ T85
- 7* 15A 125VAC 1/2 HP, 12(6)A 125 VAC T85
- 8* 10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC,
12(2)A 250 VAC μ T85
- 9* 10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC,
12(6)A 250 VAC T85
- B 15A 24V
- C 20A 18V
- D 20A 12V
- G 20A 6V
- H 20A 3V

* Ratings 6, 7, 8 & 9 are UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO and BEAB certified. Rating 6 & 8 available with circuits 2, 3, 5, 6, 7, 8, B, C, F, J, K, L only. Rating 8 is 1/2 HP, 250VAC only for circuits 2, 3, 5, 7, 8, K, L. Ratings 7 & 9 available with circuits 1, 4, A, D only. Ratings 6 & 7 only available with lamp code 1 (125VAC neon). Ratings 8 & 9 only available with lamp code 2 (250VAC neon).

4 TERMINATION & JUMPER

	TERMINATION	JUMPER
1	.250TAB (QC)-NO BARRIERS	NO
A	.250TAB (QC)-WITH BARRIERS	NO
J	.250TAB (QC)-NO BARRIERS	YES T2 TO 5

NOTE: Base will not have terminal insulating barriers when connector and/or jumpers are used.

5 ILLUMINATION & SWITCH SEALING

Lamp #1 located above terminals 1 & 4 end of switch.
Lamp #2 located above terminals 3 & 6 end of switch.
Positive (+) and negative (-) symbols apply to LED lamps only.

SEALED	UNSEALED LAMPS	ACTUATOR LENS LAMP POSITION WHEN WIRED TO ILLUMINATED	TERMINALS
S	0	NONE	
C	3	#2	UP 3+ 7-
H	Z	#2	INDEPENDENT 8+ 7-
M	R	#2	UP 3+ 6-

6 LOCK

W - LOCK OPTION: above terminals 1 & 4

7 LAMP

Selection 7: above terminals 3 & 6

0 - NO LAMP

NEON	INCANDESCENT
1 - 125VAC	4 - 3V
2 - 250VAC	5 - 6V
	6 - 12V
	7 - 18V
	8 - 24V

LED	RED	AMBER	SUPERBRIGHT GREEN	RED
2VDC	A	L	F	R
6VDC	B	M	G	S
12VDC	C	N	H	T
24VDC	D	P	J	V

8 BRACKET COLOR¹, PANEL SEAL

# OF SEALS:	0	1
BRACKET		
COLOR:		
BLACK	B	C
WHITE	W	Y
GRAY	G	H

Mounting Hole Size: 1.450" x 0.830"
36.83mm 21.08mm

To mount multiple switches in single panel cut-out order optional interlocking mounting panels.

OF ACCEPTABLE PANEL GASKETS THICKNESS RANGE

0	.030" to .250"	.76mm 4.76mm
1	.030" to .109" & .147" to .157"	.76mm 2.77mm 3.73mm 3.98mm

NOTES:

Shading indicates standard configurations.

- Custom colors are available. Consult factory.
 - Location of actuator legend is dependent upon circuit selection. Consult factory for details.
- White imprinting is standard on black actuators.
Black imprinting is standard on white, red and gray actuators.
Custom colors are available. Consult factory.

CONTURA II & III Locking Rocker Switches

2

SWITCHES & KNOBS

A ACTUATOR COLOR AND STYLE

Z HARD SURFACE ACTUATORS

E ACTUATOR ORIENTATION

CONTURA II **BLACK** **GRAY** **RED** **WHITE**

CONTURA III **C** **D** **E** **F**

Actuator orientation above terminals: 3,6 1,4

10 LENS

Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

7 - NO LENS

3 **8** **D** **J** **P** **V**

CLEAR **WHITE** **AMBER** **GREEN** **RED** **BLUE**

Lens Location & Style:

11 ACTUATOR LOCK FUNCTION AND COLOR

LOCKS IN UP POSITION	LOCKS IN DOWN POSITION	LOCKS IN UP & DOWN POSITION	LOCK COLOR
A	H	R	MATCH ACTUATOR
B	J	S	BLACK
C	K	T	WHITE
D	L	V	RED
E	M	W	SAFETY ORANGE

12 ACTUATOR LEGENDS²

00 - NO LEGEND

21 OFF

22 ON

23 O

24 I

25 O F F

26 O N

27 O

28 I

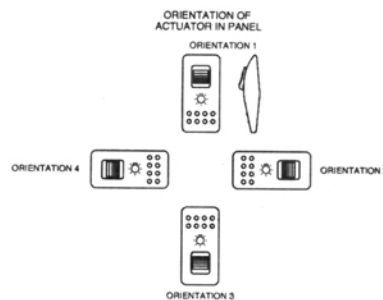
FOR ADDITIONAL LEGEND OPTIONS & CODES, SEE PAGES 19 TO 25.

13 LEGEND ORIENTATION

Field 13 must be 0 if legend code in selection 12 is 21 -28.

0 - NO LEGEND

- Orientation 1
- Orientation 2
- Orientation 3
- Orientation 4

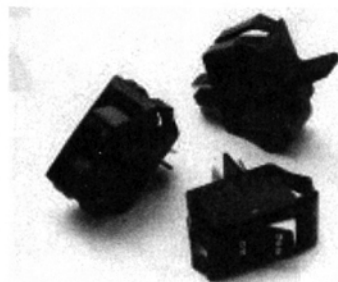


EXAMPLES



Additional orientations and locations for legends available, consult factory.

R-Series



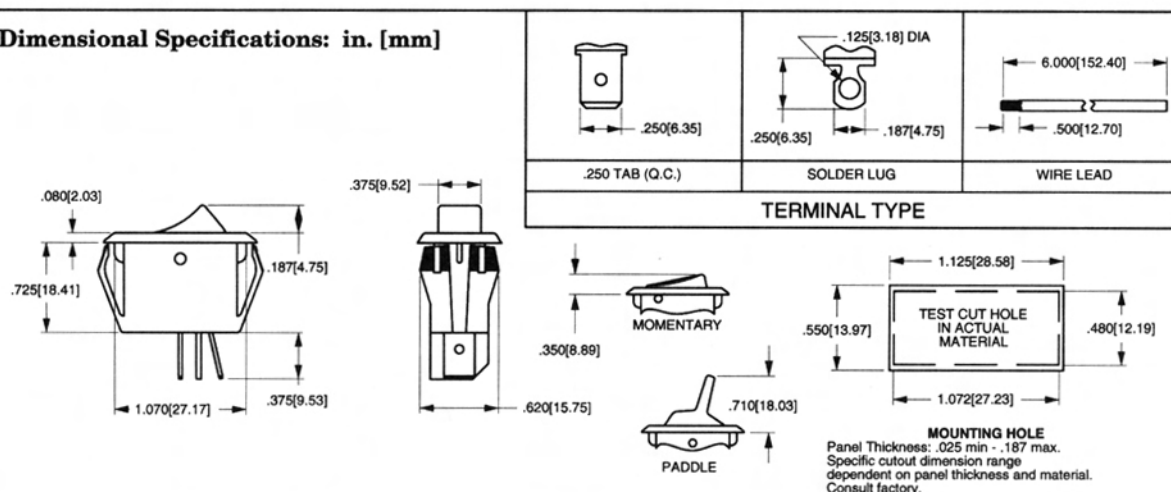
The R-Series Curvette single pole miniature snap-in rocker switches are available with momentary, rocker, paddle & Visi-Rocker type actuators. These aesthetically pleasing switches are compatible with a range of standard panel cutouts. Electrical ratings, with international approvals, are available up to 16 amps.

Specifications

- Certifications*: UL, CSA, VDE, TUV, SEMKO, DEMKO, NEMKO, FIMKO, SEV and BEAB
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Nylon
- Actuator Material: Polyester or Nylon

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



SERIES	RATING ¹	TERMINATION	BASE COLOR ²	COLOR OF MOLDED-IN LEGEND AND/OR VISI-ROCKER END ³
R SINGLE POLE	20 10A 250VAC 16A 125VAC 3/4HP 125-250VAC	0 SOLDER LUG 1 .250TAB (QC) 5 WIRE LEAD	B BLACK W WHITE	N NOT APPLICABLE B BLACK V VISI-RED W WHITE
CIRCUIT	21 10A 250 VAC 16A 125VAC 22 8A 250VAC 12A 125VAC 1/2HP 125-250VAC 23 10A 250VAC 16A 125VAC 1/2HP 125-250VAC 58 5A 277VAC 10A 125VAC AD OFF-NONE-ON Double Insulation BD ON-NONE-ON Double Insulation CD ON-OFF-ON Double Insulation Available w/ratings 21 and 58 only	ACTUATOR STYLE M MOMENTARY P PADDLE R ROCKER V TWO COLOR VISI-ROCKER ACTUATOR COLOR² B BLACK W WHITE	ROCKER FACE LEGEND MOLDED-IN³ 0 NO LEGEND 1 OFF-ON (VERTICAL) 2 OFF-ON (HORIZONTAL) 8 O-I (HORIZONTAL) 9 O-I (VERTICAL) ON-OFF (VERTICAL) ON-OFF (HORIZONTAL) DUAL LEGEND: OFF O-I ON (VERTICAL)	INK TRANSFER STAMP⁴ 0 A B D E F G H

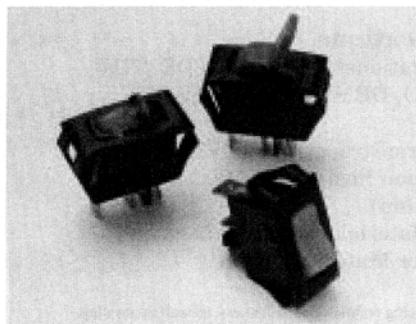
NOTES:

Shading indicates standard configurations.

Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

- Additional ratings are available. Consult factory.
- Rating 22 must use circuit D only and momentary rocker.
- Matte finish is standard. Custom colors are available. Consult factory.
- Molded-in Legend available only with Visi-Rocker option.
- White is standard with dark actuators; black is standard with light actuators.

LR-Series



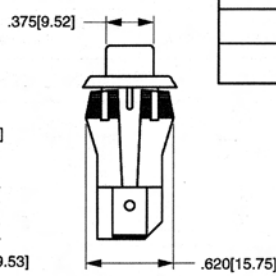
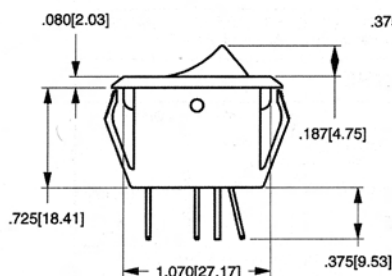
The LR-Series Curvette single pole illuminated miniature snap-in rocker switches are available with a rocker or paddle actuator. These lighted switches are available in a number of lamp voltages with internationally approved current ratings up to 16 amps. Due to the patented mounting ear design, these switches are compatible with a wide range of standard panel cutouts.

Specifications

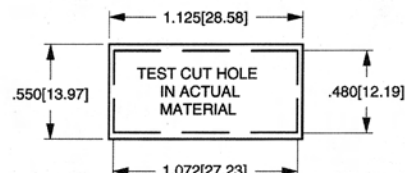
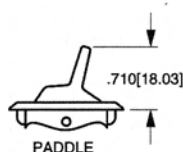
- Certifications*: UL, CSA, VDE, SEMKO, DEMKO, NEMKO, FIMKO, SEV and BEAB
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Nylon
- Actuator Material: Translucent Nylon or Polycarbonate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



.250[6.35]	.250[6.35] .187[4.75]	6.000[152.40] .500[12.70]
.250 TAB (Q.C.)	SOLDER LUG	WIRE LEAD
TERMINAL TYPE		



MOUNTING HOLE
Panel Thickness: .025 min. - .187 max.
Specific cutout dimension range
dependent on panel thickness and material.
Consult factory.

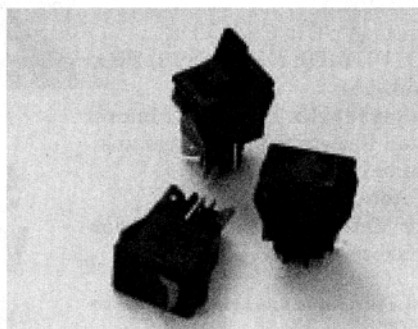
SERIES	RATING ¹	ACTUATOR STYLE ²	BASE COLOR ⁴	LAMP VOLTAGE
LR	21	1 - R S - B	/	125N
LR SINGLE POLE	21 10A 250 VAC 16 A 125VAC 10(4)A 125VAC _μ	C CLEAR ROCKER ³ P PADDLE R ROCKER	B BLACK W WHITE	006V 6 VOLTS/ INCANDESCENT 012V 12 VOLTS/ INCANDESCENT 018V 18 VOLTS/ INCANDESCENT 024V 24 VOLTS/ INCANDESCENT 125N 125 VOLTS/ NEON ⁵ 250N 250 VOLTS/ NEON ⁵
CIRCUIT	51 LOW VOLTAGE FOR 6, 12, 18 & 24 VOLT LAMPS 81 10A 250VAC 16A 125VAC 6(4)A 250VAC _μ 50E3 T85 91 10A 250VAC 16A 125VAC 10(4)A 250VAC _μ T85	ACTUATOR COLOR ROCKER/PADDLE A APRICOT (amber) C COCONUT (white) P PINEAPPLE (pale yellow) S STRAWBERRY (red) W WATERMELON (pale red)		
A OFF-NONE-ON	TERMINATION 0 SOLDER LUG 1 .250TAB (QC) 5 WIRE LEAD	CLEAR ROCKER A AMBER C CLEAR G GREEN B BLUE R RED		

NOTES:
Shading indicates standard configurations.
Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.
1 Rating Code 21 available with 125 Volt neon lamp only. Additional ratings are available. Consult factory.
2 Imprinting is available. Consult factory.
3 Clear rocker = T55 and is available with rating 21 and 91.
4 Custom colors available. Consult factory.
5 Neon lamps (125 volt or 250 volt) not recommended with green or blue colored actuators.

2

SWITCHES & KNOBS

611/621-Series



The miniature 611/621-Series switches are double insulated and available in single or double pole. These snap-in mounting style switches are available with paddle, rocker or Visi-Rocker type actuators. A variety of terminations are offered with ratings through 11 amps. International approvals are also available.

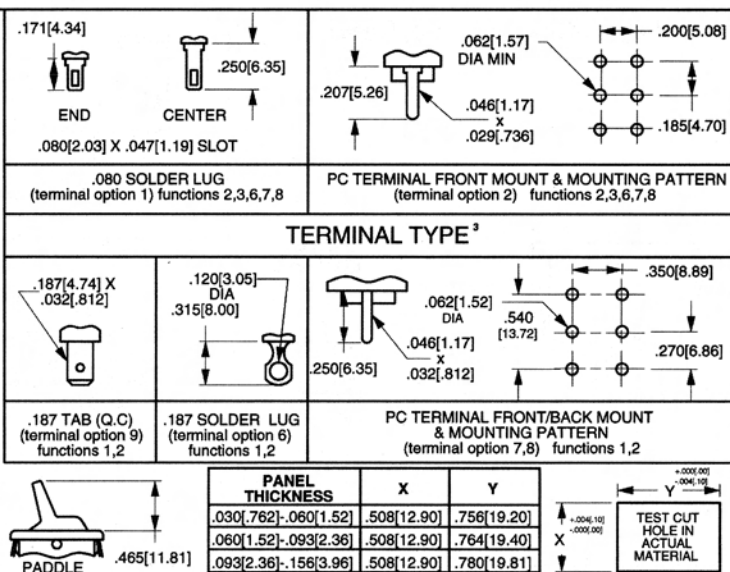
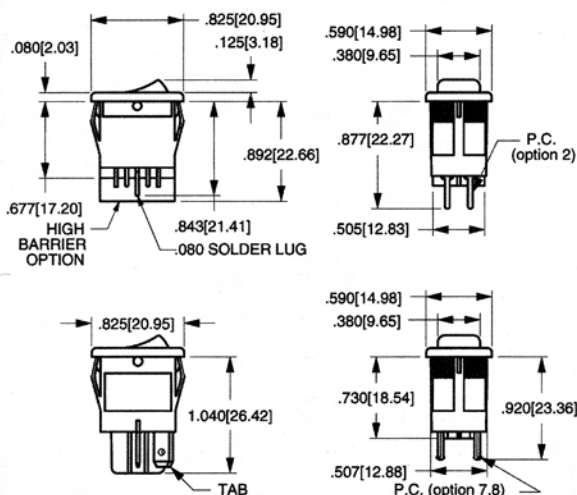
Rocker Switches

Specifications

- **Certifications*:** UL, CSA, VDE, TUV, SEMKO, DEMKO, SEV, NEMKO, SETI
- **Dielectric Strength:** 1,000V (minimum)
- **Insulation Resistance:** 100 Megohms (minimum)
- **Base Material:** Nylon
- **Actuator Material:** Nylon

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]

[illegible]

NOTES:

Shading indicates standard configurations.

Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

1 Matte finish is standard. Custom colors are available. Consult factory.

2 Rating 1 contact surfaces: gold plate over nickel plate. Rating Code 9 available with function 1 or 2 only.

3 Available in single pole with high barriers, ON-NONE-OFF circuit with .187TAB terminals only.

4 Terminations 1, 2 and 3 are not available with function 1. Terminations 4, 6, 7, 8 and 9 are available with function 1 or 2 only.

5 Molded-in Legend available only with Visi-Rocker Option.

6 White is standard with dark actuators; black is standard with light actuators.

7 Termination 3 available with rating 2 only - 18 gauge wire used.

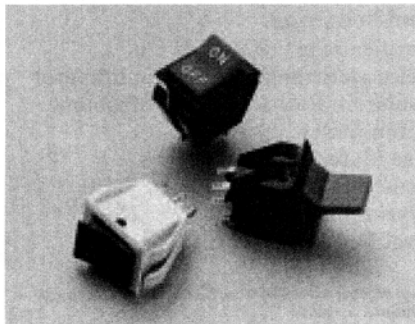
8 Rating 9 using Termination 1 or 2 is rated T55 only.

**COLOR OF MOLDED-
IN LEGEND AND/OR
VISI-ROCKER END¹**

N NOT APPLICABLE
B BLACK
V VISI-RED
W WHITE

610/620-Series

Rocker Switches



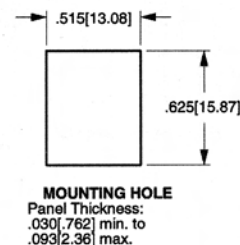
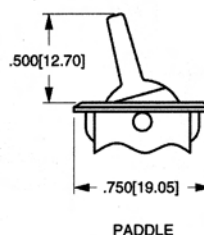
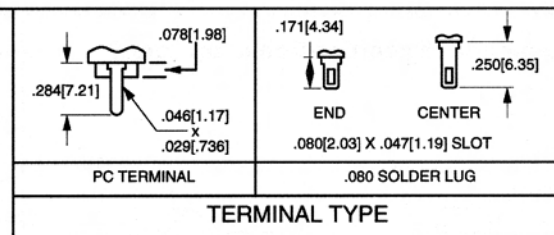
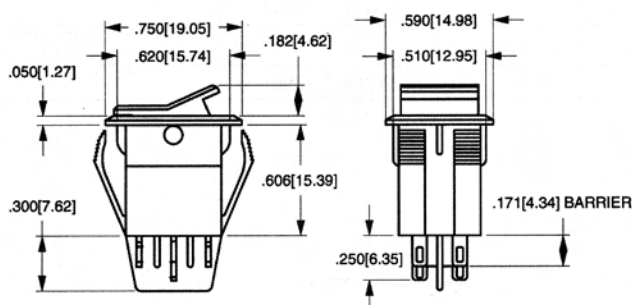
The miniature 610/620-Series switches are double insulated and available in single or double pole configurations. These snap-in mounted switches are offered with either a paddle or rocker actuator and with ratings up to 8 amps.

Specifications

- Certifications*: UL, CSA, VDE, and SEMKO
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Nylon
- Actuator Material: Nylon

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



SERIES	6	20	1	6	4	2	1	-	0	-	0																											
ACTUATOR STYLE			BASE/ACTUATOR COLOR¹		RATING²		TERMINATION		ROCKER FACE IMPRINTED LEGEND³																													
10 PADDLE			<table border="0"> <tr> <td>BASE</td> <td>ACTUATOR</td> </tr> <tr> <td>1 BLACK</td> <td>BLACK</td> </tr> <tr> <td>2 BLACK</td> <td>WHITE</td> </tr> <tr> <td>4 WHITE</td> <td>BLACK</td> </tr> <tr> <td>5 WHITE</td> <td>WHITE</td> </tr> </table>		BASE	ACTUATOR	1 BLACK	BLACK	2 BLACK	WHITE	4 WHITE	BLACK	5 WHITE	WHITE	<table border="0"> <tr> <td>1 .4VA MAX @20V MAX (AC/DC)</td> </tr> <tr> <td>2 2A 250VAC</td> </tr> <tr> <td>5A 125VAC</td> </tr> <tr> <td>RESISTIVE</td> </tr> <tr> <td>4 4A 250 VAC</td> </tr> <tr> <td>8A 125VAC</td> </tr> <tr> <td>9 4A 250VAC</td> </tr> <tr> <td>8A 125VAC</td> </tr> <tr> <td>INDUCTIVE</td> </tr> <tr> <td>6(4)A 250VAC</td> </tr> </table>		1 .4VA MAX @20V MAX (AC/DC)	2 2A 250VAC	5A 125VAC	RESISTIVE	4 4A 250 VAC	8A 125VAC	9 4A 250VAC	8A 125VAC	INDUCTIVE	6(4)A 250VAC	<table border="0"> <tr> <td>1 SOLDER LUG</td> </tr> <tr> <td>2 PC TERM</td> </tr> </table>		1 SOLDER LUG	2 PC TERM	<table border="0"> <tr> <td>0 NO LEGEND</td> </tr> <tr> <td>A ON-OFF (VERTICAL)</td> </tr> <tr> <td>B ON-OFF (HORIZONTAL)</td> </tr> <tr> <td>D I-O (HORIZONTAL)</td> </tr> <tr> <td>E I-O (VERTICAL)</td> </tr> </table>			0 NO LEGEND	A ON-OFF (VERTICAL)	B ON-OFF (HORIZONTAL)	D I-O (HORIZONTAL)	E I-O (VERTICAL)
BASE	ACTUATOR																																					
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1 .4VA MAX @20V MAX (AC/DC)																																						
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B ON-OFF (HORIZONTAL)																																						
D I-O (HORIZONTAL)																																						
E I-O (VERTICAL)																																						
20 ANGLED ROCKER			POLES		FUNCTION		EPOXY SEALED TERMINALS																															
			<table border="0"> <tr> <td>1 SINGLE POLE</td> </tr> <tr> <td>2 DOUBLE POLE</td> </tr> <tr> <td>5 DOUBLE POLE W/ HIGH BARRIERS</td> </tr> <tr> <td>6 SINGLE POLE W/ HIGH BARRIERS</td> </tr> </table>		1 SINGLE POLE	2 DOUBLE POLE	5 DOUBLE POLE W/ HIGH BARRIERS	6 SINGLE POLE W/ HIGH BARRIERS	<table border="0"> <tr> <td>2 ON-NONE-ON</td> </tr> <tr> <td>3 ON-NONE-(ON)</td> </tr> <tr> <td>6 ON-OFF-ON</td> </tr> <tr> <td>7 ON-OFF-(ON)</td> </tr> <tr> <td>8 (ON)-OFF-(ON)</td> </tr> </table>		2 ON-NONE-ON	3 ON-NONE-(ON)	6 ON-OFF-ON	7 ON-OFF-(ON)	8 (ON)-OFF-(ON)	<table border="0"> <tr> <td>E EPOXY</td> </tr> <tr> <td>0 NONE REQUIRED</td> </tr> </table>		E EPOXY	0 NONE REQUIRED																			
1 SINGLE POLE																																						
2 DOUBLE POLE																																						
5 DOUBLE POLE W/ HIGH BARRIERS																																						
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8 (ON)-OFF-(ON)																																						
E EPOXY																																						
0 NONE REQUIRED																																						

NOTES:

Shading indicates standard configurations.

Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

1 Matte finish is standard. Custom colors are available. Consult factory.

2 Rating 1 contact surfaces: gold plate over nickel plate. Rating Code 9-T55, available with function 2 only.

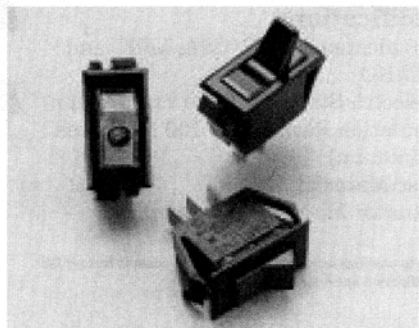
3 White is standard with dark rocker actuators; black is standard with light rocker actuators. Choose 0 if paddle actuator is specified.

2

S W I T C H E S & K N O B S

LTA-Series

Rocker Switches



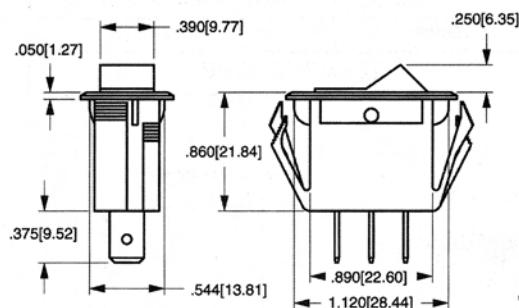
The LTA-Series Mini Tippet Snap-in rocker switches are illuminated, single pole and double-insulated. These AC rated switches are also suitable for low voltage DC applications. A variety of actuators, colors and terminations can be specified with ratings up to 20 amps.

Specifications

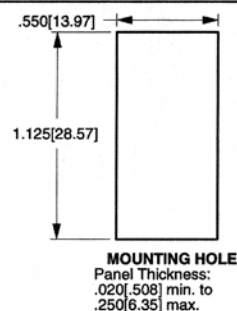
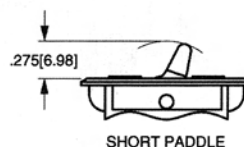
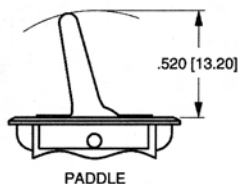
- Certifications*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Nylon
- Actuator Material: Nylon or Polycarbonate
- Bezel Material: Nylon

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



.069[1.75] DIA	.156[3.96] DIA	.055[1.40] DIA	
.250[6.35]	.375[9.52]	.250[6.35]	6.000[152.40]
	.250[6.35]	.187[4.74]	.500[12.70]
.250 TAB (Q.C.)	SOLDER LUG	.187 TAB (Q.C.)	INTEGRATED WIRE LEAD (no exposed conductors)
TERMINAL TYPE			



SERIES	RATING	TERMINATION	ACTUATOR COLOR	LENS COLOR ^{2,3}
LTA	20	1	T	R
LTA OFF-NONE-ON SINGLE POLE	10 5A 250VAC 10A 125VAC 1/2HP 125-250VAC 11 5A 250VAC 10A 125VAC 5A (TUNGSTEN) 125VAC L 20 10A 250VAC 15A 125VAC 3/4HP 125-250VAC 21 10A 250VAC 15A 125VAC 22 10A 250VAC 15A 125VAC 20A 125-250VAC H 3/4HP 125-250VAC	0 SOLDER LUG 1 .250 TAB (QC) 3 .187 TAB (QC) 5 WIRE LEAD ACTUATOR STYLE P PADDLE PS PADDLE - SHORT T LIGHTED ROCKER	ROCKER A AMBER C CLEAR G GREEN ³ R RED PADDLE¹ B BLACK W WHITE BASE COLOR¹ B BLACK W WHITE	A AMBER C CLEAR G GREEN LU BLUE R RED LAMP VOLTAGE 6V 6 VOLT/ INCANDESCENT 12V 12 VOLT/ INCANDESCENT 18V 18 VOLT/ INCANDESCENT 24V 24 VOLT/ INCANDESCENT 28V 28 VOLT/ INCANDESCENT 125N 125 VOLT/ NEON 250N 250 VOLT/ NEON

NOTES:

Shading indicates standard configurations. Stainless steel bezels are available. Add suffix "BEZEL" to the end of the catalog number. (ex.) LTA201-TR-B/12V/BEZEL. Imprinting is available. Please specify when ordering.

Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

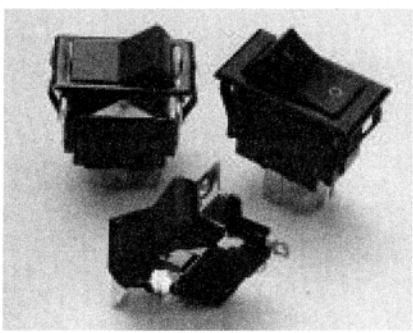
1 Custom colors are available. Consult factory.

2 Neon lamps (125 volt or 250 volt) not recommended with green or blue colored indicators.

3 Specify lens color only if actuator style is P or PS.



TIL, TIG, TIH, TII-Series

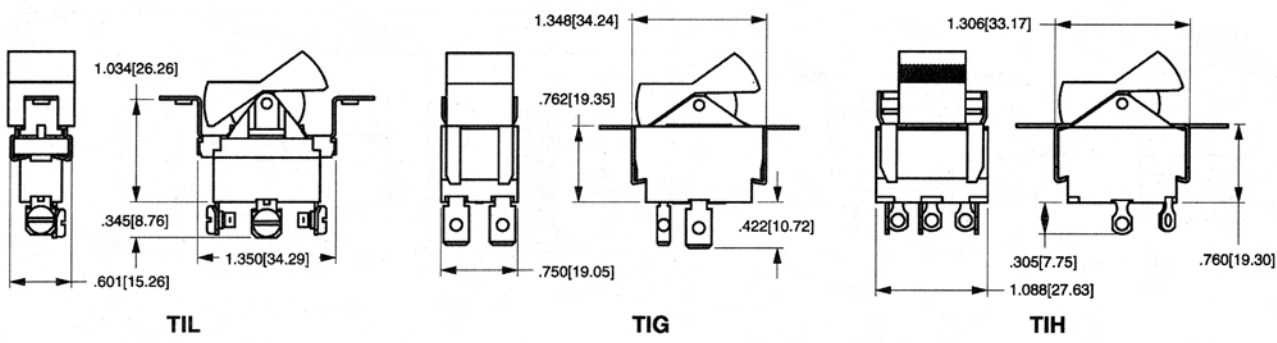


The TI-Series Tippette rocker switches are available in single pole (TIL), double pole (TIG), three pole (TIH) and four pole (TII) versions. These switches are available with nylon snap-in or screw-type mounting brackets, are AC rated to 20 amps and suitable for low voltage DC applications. Multiple actuator options and colors are available, and many circuits have international approvals.

- Specifications
- Certifications*: UL, CSA, and VDE
 - Dielectric Strength: 1,000 V (minimum)
 - Insulation Resistance: 100 Megohms (minimum)
 - Base Material: Phenolic
 - Actuator Material: Nylon
 - Bracket/Bezel Material: Nylon or Steel

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



TIG		K	5	1	-	6S	-	BL	-	NBL	
SERIES		CIRCUIT		RATING ¹			ACTUATOR STYLE ²		ACTUATOR COLOR ³		
TIL	SINGLE POLE	SINGLE POLE		5	10A 250VAC			1C	CROSS SERRATED	BL	BLACK
TIG	DOUBLE POLE	A ON-NONE-OFF			15A 125VAC			1F	SMOOTH W/ FLATTED CENTER	WH	WHITE
TIH	THREE POLE	B ON-NONE-ON			3/4HP 125-250VAC			1L	LONG LINED	BRACKET STYLE ⁴	
TII	FOUR POLE	C ON-OFF-ON		6	3A 250VAC			1S	SMOOTH ANGLED		
					6A 125VAC			2L	LONG NARROW		
		DOUBLE, THREE OR FOUR POLE			1/4HP 125-250VAC				SMOOTH	A	
		K ON-NONE-OFF		9	10A 250VAC			6M ⁵	MATTE CURVED	B	
		L ON-NONE-ON			15A 125VAC				(M, N OR W	C	
		M ON-OFF-ON			12(6)A 250VAC T85				BRACKETS ONLY)	H	
				72	20A 125-277VAC			6S	SMOOTH CURVED	FN	NARROW
					1 1/2HP 125VAC				(M, N OR W	FW	WIDE
					2HP 250VAC				BRACKETS ONLY)	MBL	MARINE
								7N	WITCHES HAT (NARROW)	NBL	
										WBL	WATERSHEDDING

NOTES:

Shading indicates standard configurations.

Dust covers for single and double pole are available, consult factory.

Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

1 Horsepower rating for code 5 is applicable to certain circuits only. Consult factory for specifics.

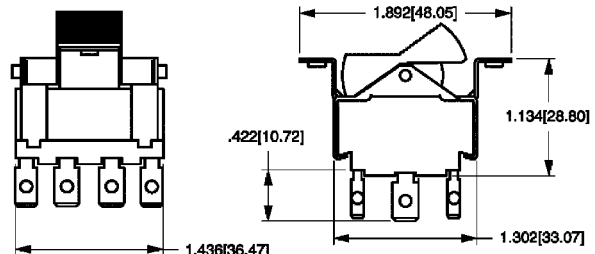
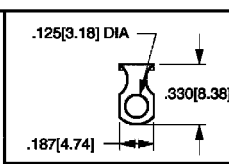
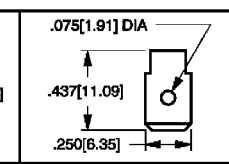
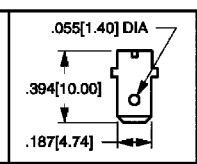
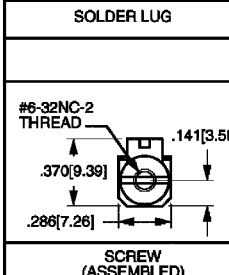
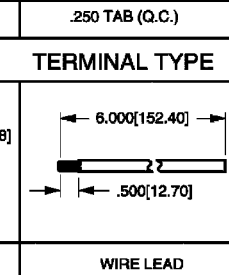
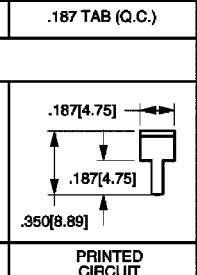
- NOTES:
- Shading indicates standard configurations.
- Dust covers for single and double pole are available, consult factory.
- Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.
- 1 Horsepower rating for code 5 is applicable to certain circuits only. Consult factory for specifics.
- Rating Code 9 for TIG-Series only with maintained A, B, K, L and M Circuits, and N Bracket Style, terminals 0 or 1 only.
- Rating Code 72 for TIG-Series only, in maintained circuits, with N or W Bracket Style only.
- 2 For double actuator with or without interlock or other actuator styles, consult factory.
- Imprinting available on smooth face rockers.
- 3 Glossy finish is standard. Custom colors are available. Consult factory.
- Barbs are available on FN style bracket to accommodate panel thicknesses of .062, .100, .125, .156 and .250. Specify after bracket selection. (ex.) FN/.125
- MBL, NBL & WBL brackets are molded in black. If white is desired, specify as MWH, NWH & WWH.
- Bracket Styles D, E and G available. Consult factory.
- Bracket Style M consists of LNP rocker, neoprene seal, syntech grease, dummy rivets. M, N and W brackets supplied in two pole bases.
- MBL does not have UL, CSA approvals.
- Bracket style H available with actuator styles 7N and 7P only.
- 5 Actuator & Bracket Finish is a matched set.

FUNCTION	SOLDER LUG	.250 TAB (QC)	.187 TAB (QC)	SCREW TERM.	WIRE LEAD	PC TERM.
ON-NONE-OFF	0	1	3	4	5	6
(ON)-NONE-OFF	A	B	D	E	F	G
ON-NONE-(OFF)	L	M	R	S	T	U
ON-NONE-ON	0	1	3	4	5	6
ON-NONE-(ON)	A	B	D	E	F	G
ON-OFF-ON	0	1	3	4	5	6
ON-OFF-(ON)	A	B	D	E	F	G
(ON)-OFF-(ON)	L	M	R	S	T	U

Special Circuits for Tippette Rocker Switches

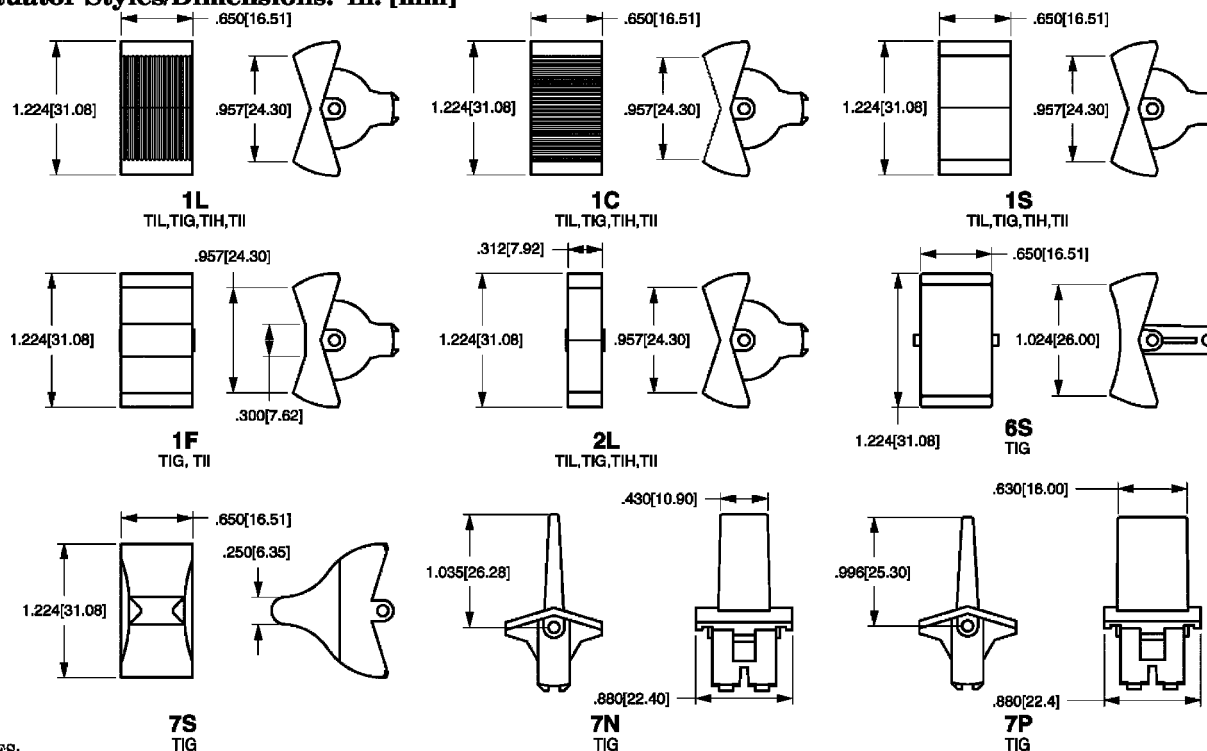
CIRCUIT	POSITION 1	POSITION 2	POSITION 3
PROGRESSIVE TWO CIRCUIT			
GG	BOTH CIRCUITS ON	ONE CIRCUIT ON	OFF
GG	BOTH CIRCUITS (ON)	ONE CIRCUIT ON	OFF
SINGLE POLE TRIPLE THROW			
GE	ON	ON	ON
TWO CIRCUIT			
GH	CIRCUIT 1 ON	BOTH CIRCUITS ON	CIRCUIT 2 ON
GP	CIRCUIT 2 ON	CIRCUIT 1 ON	OFF
REVERSING DOUBLE POLE DOUBLE THROW			
GO	ON	OFF	ON
GX	ON	NONE	ON

Rocker Switches

			
	SOLDER LUG	.250 TAB (Q.C.)	.187 TAB (Q.C.)
	TERMINAL TYPE		
			
	SCREW (ASSEMBLED)	WIRE LEAD	PRINTED CIRCUIT

TII

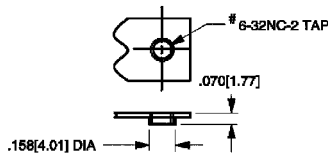
Actuator Styles/Dimensions: in. [mm]



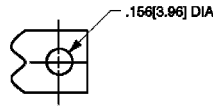
NOTES:

Additional momentary circuits are available. Consult factory for details.

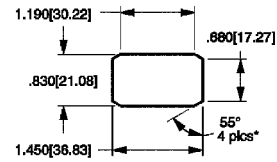
Bracket Dimensions: in. [mm]



TAPPED HOLE
Standard with
A & B Brackets

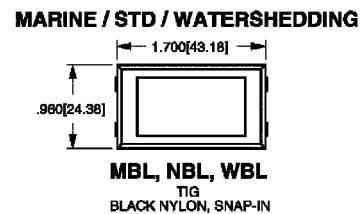
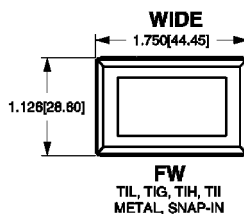
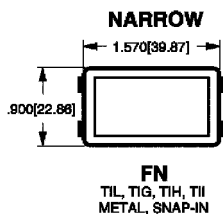


CLEARANCE HOLE
Standard with
C Bracket



MOUNTING HOLE
(Nylon Snap-In Brackets)
Panel Thickness:
.030 min. - .250 max.
* Angled corners are suggested for
optimum fit. Standard rectangular
cutout is acceptable.

TIL	TIG	TII	TIH



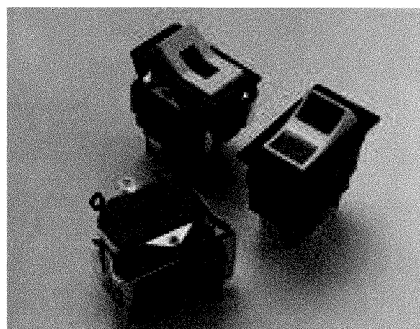
NOTES

Double brackets supplied on TII-Series when B style bracket is specified. Consult factory for dimensional information.

* Available in both clearance and tapped hole options. Please specify when ordering.

LTIG-Series

Rocker Switches



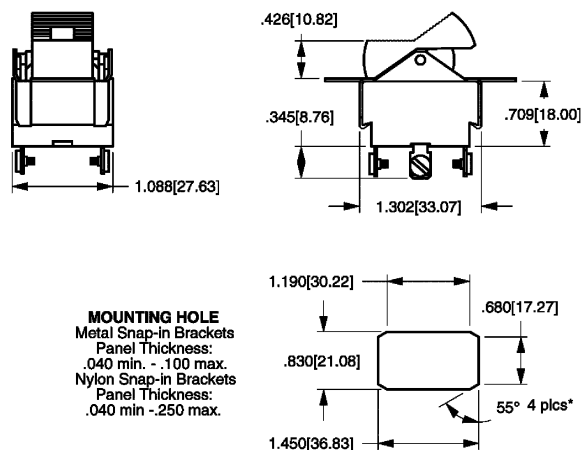
The LTIG-Series Tippet rocker switches are lighted, double pole and AC rated up to 26 amps. A variety of circuits, colors, terminations and lamp voltages are available.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Nylon
- Bezel Material: Nylon or Steel

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



SOLDER LUG	.250 TAB (Q.C.)	.187 TAB (Q.C.)
TERMINAL TYPE		
SCREW (ASSEMBLED)	WIRE LEAD	PRINTED CIRCUIT

* Angled corners are suggested for optimum fit. Standard rectangular cutout is acceptable.

LTIG K 5 1 - 6S - BL - RC - NBL / 125N

SERIES

LTIG DOUBLE POLE LIGHTED

CIRCUIT¹

K ON-NONE-OFF

L ON-NONE-ON

M ON-OFF-ON

NOTES:

Shading indicates standard configurations. Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

1 Lighted circuits L and M have two lamps.
2 Additional non-inductive ratings to 26 amps available. Consult factory.

3 Imprinting available on smooth face rockers. Other actuator styles available. Consult factory.

4 Glossy finish is standard. Custom colors are available. Consult factory.

5 Green & blue not recommended w/ 125 volt or 250 volt neon lamp. For two different color lenses, please specify when ordering lens color. (ex.) RC/GN

6 Barbs are available on FN style bracket to accommodate panel thickness of .062, .100, .125, .156 and .250. Specify after bracket selection. (ex.) FN/.125

MBL, NBL & WBL brackets are molded in black. If white is desired, specify as MWH, NWH & WWH. FN and FW brackets have a nickel-plated finish. Additional finishes are available; specify as follows: stainless steel: FN/SS; chrome: FN/CHP; black oxide: FW/BLK. FW bracket not available in stainless steel. Bracket style MBL consists of LNP rocker, neoprene seal, syntech grease, dummy rivets.

MBL, NBL and WBL brackets supplied in two pole base. All other brackets supplied in three pole base.

MBL does not have UL & CSA approvals.

7 Actuator & Bracket Finish is a matched set.

RATING²

5 10A 250VAC
15A 125VAC
3/4HP 250VAC
6 3A 250VAC
6A 125VAC
1/4HP 125-250VAC

ACTUATOR STYLE³

1C CROSS SERRATED
1L LONG LINED
1S SMOOTH ANGLED
6M MATTE CURVED (M, N OR W BRACKETS ONLY)
6S SMOOTH CURVED (M, N & W BRACKETS ONLY)

ACTUATOR COLOR⁴

BL BLACK
WH WHITE

LENS COLOR⁵

AM AMBER
CL CLEAR
GN GREEN
LU BLUE
RC RED
WH WHITE

BRACKET STYLE⁶

A
C
FN NARROW
FW WIDE
MBL MARINE
NBL
WBL WATERSHEDDING

LAMP VOLTAGE

6V 6 VOLT/ INCANDESCENT
12V 12 VOLT/ INCANDESCENT
18V 18 VOLT/ INCANDESCENT
24V 24 VOLT/ INCANDESCENT
28V 28 VOLT/ INCANDESCENT
125N 125 VOLT/ NEON
250N 250 VOLT/ NEON

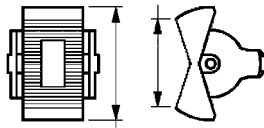
TERMINATION/FUNCTION

FUNCTION	SOLDER LUG	.250 TAB (QC)	.187 TAB (QC)	SCREW TERM.	WIRE LEAD	PC TERM.
ON-NONE-OFF	0	1	3	4	5	6
(ON)-NONE-OFF	A	B	D	E	F	G
ON-NONE-(OFF)	L	M	R	S	T	U
ON-NONE-ON	0	1	3	4	5	6
ON-NONE-(ON)	A	B	D	E	F	G
ON-OFF-ON	0	1	3	4	5	6
ON-OFF-(ON)	A	B	D	E	F	G
(ON)-OFF-(ON)	L	M	R	S	T	U

Actuator Style/Dimensions: in. [mm]

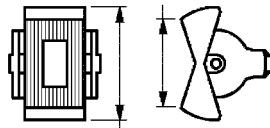
Rocker Switches

2
SWITCHES
&
KNOBS



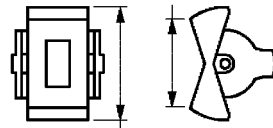
1.224[31.08]

1C
CROSS-LINE W/ONE LENS



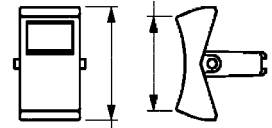
1.224[31.08]

1L
LONG-LINE W/ONE LENS



1.224[31.08]

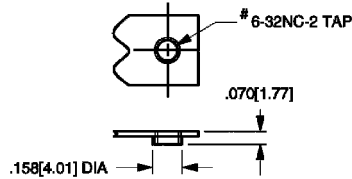
1S
SMOOTH W/ONE LENS



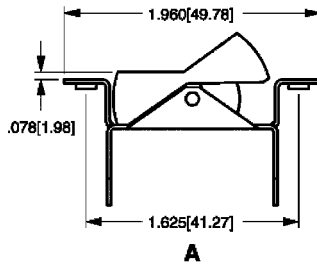
1.224[31.08]

6S
CURVED W/ONE LENS

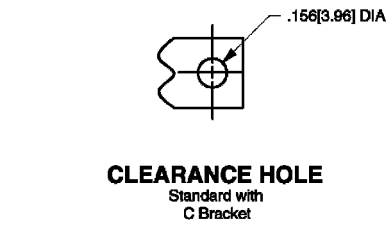
Bracket Dimensions: in. [mm]



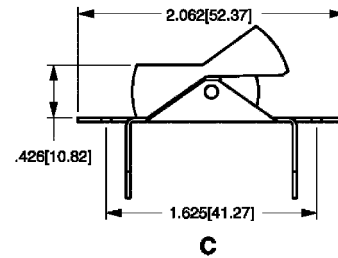
TAPPED HOLE
Standard with
A Bracket



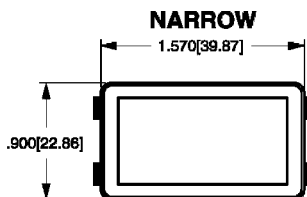
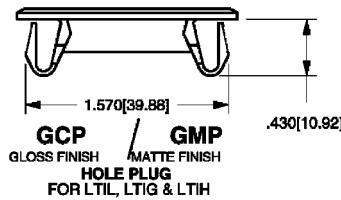
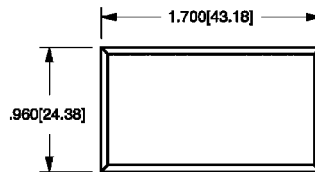
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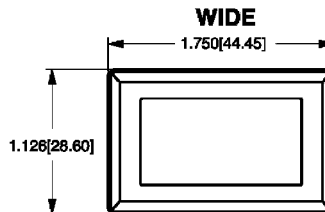
CLEARANCE HOLE
Standard with
C Bracket



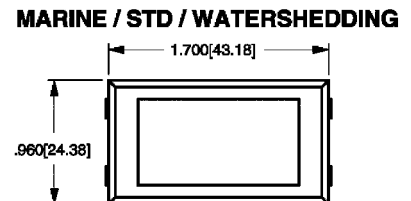
C



FN
METAL, SNAP-IN



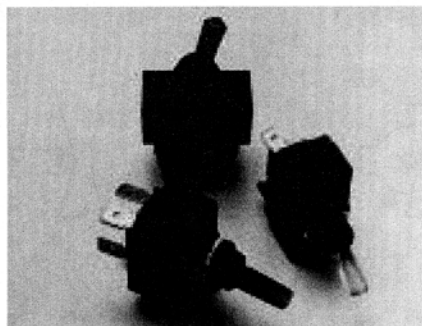
FW
METAL, SNAP-IN



MBL, NBL, WBL
BLACK NYLON, SNAP-IN

LT-Series

Toggle Switches

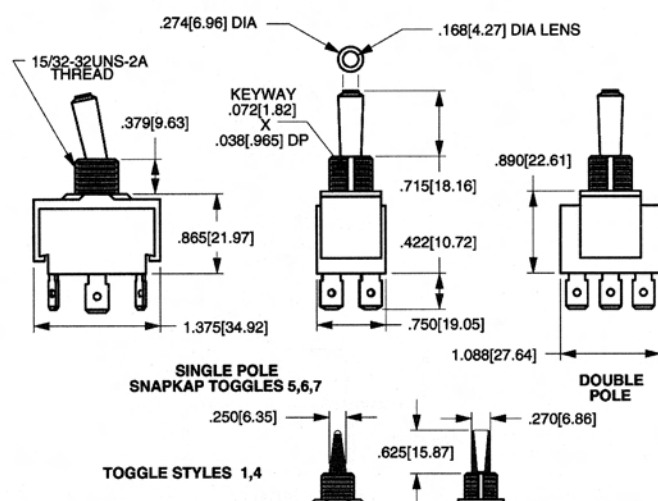


The LT-Series illuminated toggle switches feature a three-color lighting sequence from a single lamp. These lighted toggles contain neoprene bushing seals for dust and moisture protection. A variety of circuits and terminations are available.

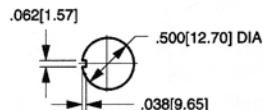
Specifications

- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Polycarbonate
- Bushing Material: Polycarbonate

Dimensional Specifications: in. [mm]



 .125[3.18] DIA .187[4.74] .330[8.38]	 .075[1.91] DIA .437[11.09] .250[6.35]	 .055[1.40] DIA .394[10.00] .187[4.74]
SOLDER LUG	.250 TAB (Q.C.)	.187 TAB (Q.C.)
TERMINAL TYPE		
 #6-32NC-2 THREAD .370[9.39] .286[7.26] .141[3.58]	 6.000[152.40] .500[12.70]	 .187[4.75] .187[4.75] .350[8.89]
SCREW (ASSEMBLED)	WIRE LEAD	PRINTED CIRCUIT



MOUNTING HOLE
Keyway should point down for maximum water resistance

SERIES	CIRCUIT	LIGHTING SEQUENCE ³	
LT	1 5 6	1 - 1 13 - 012	
LT LIGHTED TOGGLE			
POLES			
1 SINGLE POLE IN A DOUBLE POLE BASE	1 ON-NONE-OFF	POS 1 POS 2 POS 3	POS 1 POS 2 POS 3
2 DOUBLE POLE IN A TRIPLE POLE BASE	2 ON-NONE-(OFF)	01 RED RED RED	32 GREEN CLEAR AMBER
	3 (ON)-NONE-OFF	02 AMBER AMBER AMBER	33 GREEN CLEAR GREEN
	4 ON-NONE-ON	03 GREEN GREEN GREEN	34 GREEN CLEAR BLUE
	5 ON-NONE-(ON)	10 RED ---- NONE	35 GREEN CLEAR CLEAR
	6 ON-OFF-ON	11 RED CLEAR RED	40 BLUE ---- NONE
	7 ON-OFF-(ON)	12 RED CLEAR AMBER	41 BLUE CLEAR RED
	8 (ON)-OFF-(ON)	13 RED CLEAR GREEN	42 BLUE CLEAR AMBER
		14 RED CLEAR BLUE	43 BLUE CLEAR GREEN
		15 RED CLEAR CLEAR	44 BLUE CLEAR BLUE
		20 AMBER ---- NONE	45 BLUE CLEAR CLEAR
		21 AMBER CLEAR RED	50 CLEAR ---- NONE
		22 AMBER CLEAR AMBER	51 CLEAR CLEAR RED
		23 AMBER CLEAR GREEN	52 CLEAR CLEAR AMBER
		24 AMBER CLEAR BLUE	53 CLEAR CLEAR GREEN
		25 AMBER CLEAR CLEAR	54 CLEAR CLEAR BLUE
		30 GREEN ---- NONE	55 CLEAR CLEAR CLEAR
		31 GREEN CLEAR RED	
RATING	TERMINATION		
5 10A 250VAC	0 SOLDER LUG		
15A 125VAC	1 .250TAB (QC)		
3/4HP 125-250VAC	3 .187TAB (QC)		
	4 SCREW TERM.		
	5 WIRE LEAD		
	6 PC TERM.		

NOTES:

Shading indicates standard configurations.

- 1 Solid color paddle available with lighting sequence 01, 02, 10 or 20.
- 2 SnapKap Toggle Lenses are available separately. Consult factory.
- 3 Independent lamp is standard. Dependent lamp with ON-OFF function (including momentary) is available with Lighting Sequences 10, 20, 30, 40 and 50. No light in OFF position.
- 4 Green and blue not recommended with 125 volt or 250 volt neon lamps.

TOGGLE STYLE

PADDLE¹

- 1 CLEAR
- 4 SOLID COLOR

SNAPKAP²

- 5 BRIGHT CHROME
- 6 SATIN CHROME
- 7 BLACK MOLDED

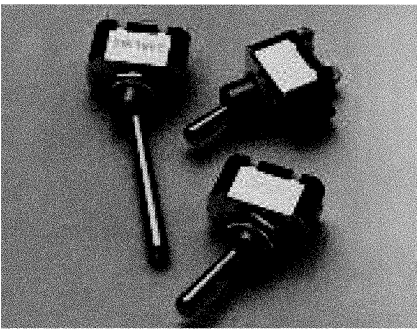
LAMP VOLTAGE⁴

- 006 6V
- 012 12V
- 018 18V
- 024 24V
- 125 125N
- 250 250N



F-Series

Toggle Switches

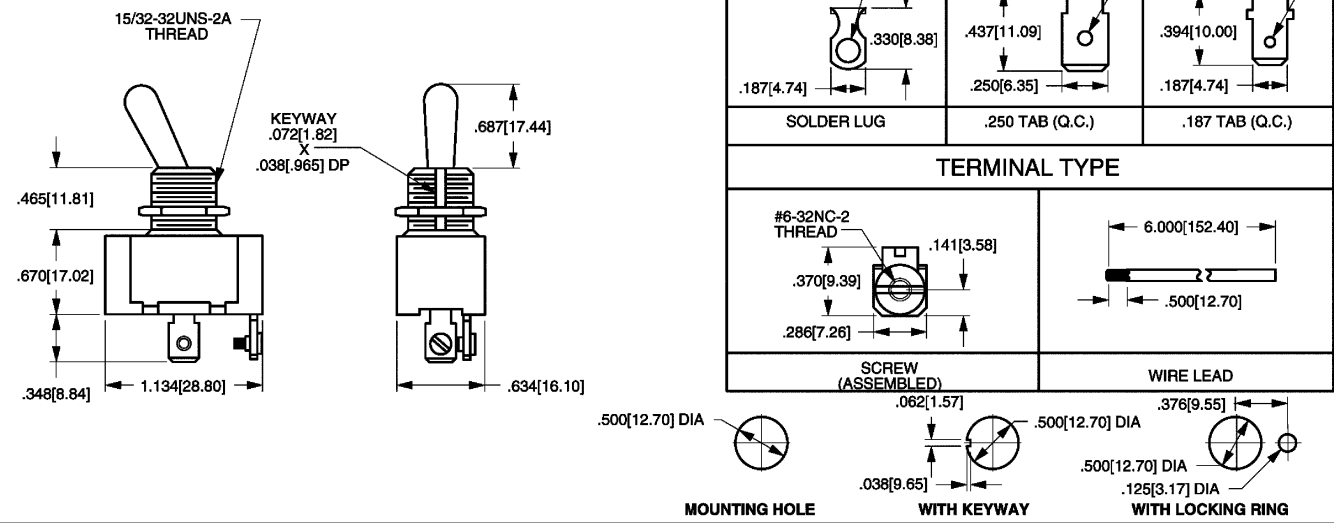


The F-Series toggle switches are AC rated up to 20 amps, single pole, with a slow-make, slow-break contact mechanism. These switches are available in a wide range of ratings, circuits, terminations and bushing/toggle configurations.

- Specifications**
- Certifications*: UL, CSA
 - Dielectric Strength: 1,000V (minimum)
 - Insulation Resistance: 100 Megohms (minimum)
 - Base Material: Phenolic
 - Actuator Material: Brass/Nickel Plate
 - Bushing Material: Brass/Nickel Plate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



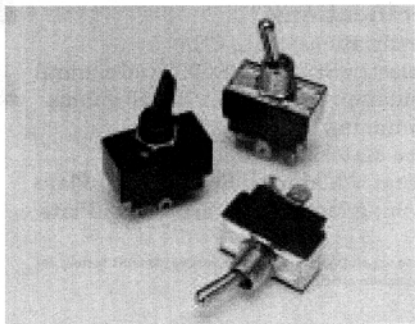
2F		A	5	3	-	73 /TABS		
SERIES		RATING ¹		TERMINATION/FUNCTION ²				
2F SINGLE POLE		5	10A 250VAC	FUNCTION	SOLDER LUG	.250TAB (QC)	SCREW TERM.	WIRE LEAD
6F SINGLE POLE			15A 125VAC		3	3/TABS	4	1
MOMENTARY			3/4HP 120-240VAC	ON-NONE-OFF	3	3/TABS	4	1
CIRCUIT		6	3A 250VAC	(ON)-NONE-OFF	3	3/TABS	4	1
A ON-NONE-OFF			6A 125VAC	ON-NONE-(OFF)	7	7/TABS	8	6
B ON-NONE-ON			1/4HP 120-240VAC	ON-NONE-ON	3	3/TABS	4	1
C ON-OFF-ON			ON-NONE-(ON)	3	3/TABS	4	1	
			ON-OFF-ON	3	3/TABS	4	1	
			(ON)-OFF-(ON)	3	3/TABS	4	1	
			ON-OFF-(ON)	7	7/TABS	8	6	

TOGGLE STYLE				
	TOGGLE LENGTH	BUSHING LENGTH	SUFFIX NO.	NEOPRENE SEAL
BAT	.406	.343	52	57
	.562	.465	63	68
	.687	.465	73	78
	1.00	.343	A2	A7
BALL	2.00	.465	E3	E8
	.500	.343	22	---

NOTES:
Shading indicates standard configurations.
For bushing accessories, see pages 69 and 70.
1 Additional ratings to 20A available. Consult factory.
2 For .187TAB (QC) type terminal use solder lug function selection codes. Add the suffix /187TABS. (ex.) 2FA53-73/187TABS

G-Series

Toggle Switches



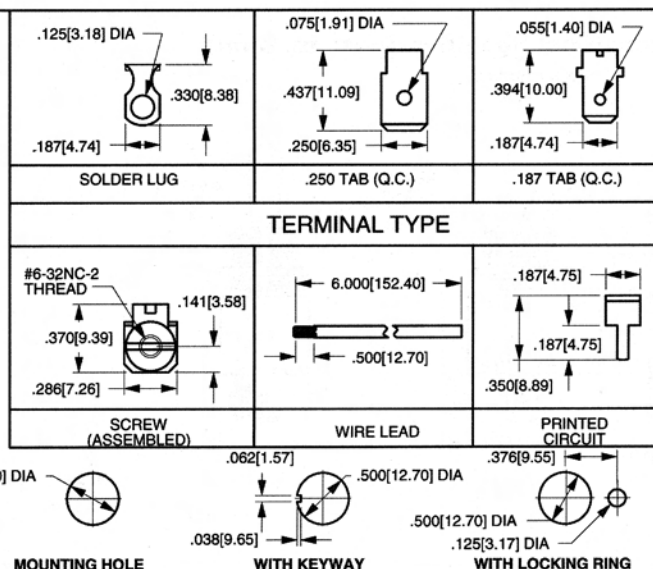
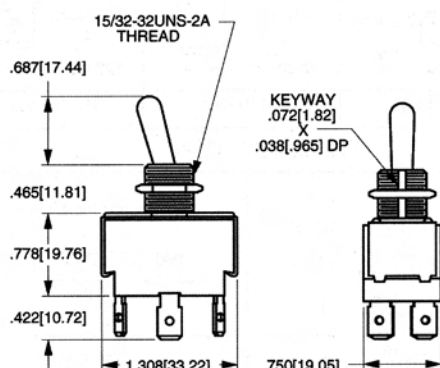
The G-Series toggle switches are single or double pole, AC rated up to 20 amps and contain a slow-make, slow-break contact mechanism. These switches are available in a wide range of ratings, terminations, circuits and bushing/toggle configurations.

Specifications

- Certifications*: UL, CSA, VDE
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate or Polycarbonate
- Bushing Material: Brass/Nickel Plate or Polycarbonate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



SERIES	RATING ²	TERMINATION/FUNCTION	TOGGLE STYLE ³
2G			
2G MAINTAINED	0 20A 250VAC	.250 .187	
6G MOMENTARY	5 10A 250VAC	TAB TERM.	
	15A 125VAC	WIRE	
	3/4HP 125-250VAC	PC	
CIRCUIT¹	6 3A 250VAC	0 1 3 4 5 6	
	6A 125VAC	A B D E F G	
SINGLE POLE IN	1/4HP 125-250VAC	L M R S T U	
DOUBLE POLE BASE	7 12A 250VAC	0 1 3 4 5 6	
A ON-NONE-OFF	17A 125VAC	A B D E F G	
B ON-NONE-ON	1HP 250VAC	0 1 3 4 5 6	
C ON-OFF-ON	9 10A 250VAC	A B D E F G	
	15A 125VAC	L M R S T U	
DOUBLE POLE	12(6)A 250VAC T85		
K ON-NONE-OFF	3/4HP 125-250VAC		
L ON-NONE-ON	72 20A 125-277VAC		
M ON-OFF-ON	1 1/2HP 125VAC		
	2HP 250VAC		

NOTES:

Shading indicates standard configurations.

For bushing accessories, see pages 69 and 70.

1 Additional circuits are available on page 53.

2 Additional ratings available. Consult factory.

Rating Code 5 is applicable to certain circuits only. Consult factory for specifics.

Rating 9 is only available with nylon bushing and actuator. See page 53 for callout.

Rating 9 is only available with terminations 0 and 1, circuits A, B, K and L only.

Rating 72 is only available in maintained circuits and nylon construction. See page 53 for callout.

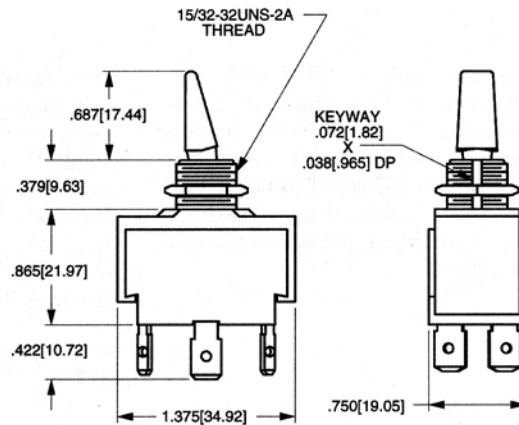
3 NBL toggle uses black oxide plated metal bushing for standard construction. NWH toggles use nickel plated metal bushing for standard construction.

BAT



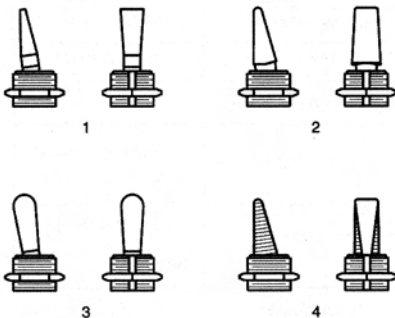
TOGGLE LENGTH	BUSHING LENGTH	SUFFIX NO.	NEOPRENE SEAL
.406	.343	52	57
.562	.465	63	68
.687	.465	73	78
1.00	.465	A3	A8
1.25	.465	B3	B8
.687	.465	NBL3	NBL8
.687	.465	NWH3	NWH8
1.50	.465	C3	C8

Nylon Toggle



S.P. OR D.P. NYLON

FOR NYLON TOGGLES
AFTER TERMINATION SELECTION, ADD SUFFIXES:
(ex.) 2GK51-D-4B-B



D
NYLON
TOGGLE

4
TOGGLE
STYLE
(SEE DRAWING
AT LEFT)

B
ACTUATOR
COLOR

B
BUSHING
COLOR

B BLACK
W WHITE

B BLACK
W WHITE

1
2
3
4 (WITH
NEOPRENE
SEAL)

Additional Circuits¹

CIRCUIT	POSITION 1	POSITION 2	POSITION 3
PROGRESSIVE TWO CIRCUIT			
2GH	CIRCUIT 1 ON	2 CIRCUITS ON	CIRCUIT 2 ON
2GP	CIRCUIT 2 ON	CIRCUIT 1 ON	OFF
2GG	2 CIRCUITS ON	CIRCUIT 1 ON	OFF
6GG MOMENTARY	2 CIRCUITS (ON)	CIRCUIT 1 ON	OFF
SINGLE POLE TRIPLE THROW			
2GE	ON	ON	ON
REVERSING DOUBLE POLE DOUBLE THROW*			
2GX	ON	NONE	ON
2GO	ON	OFF	ON
6GO MOMENTARY	(ON)	OFF	(ON)

*WITH REVERSING DOUBLE POLE DOUBLE THROW CIRCUITS, USE TERMINATION/
FUNCTION FROM FOLLOWING OPTIONS:

SOLDER LUG	.250 TAB (Q.C)	SCREW TERM.	WIRE LEAD
3	3/TABS	4	1
3	3/TABS	4	1
3	3/TABS	4	1

NOTES:

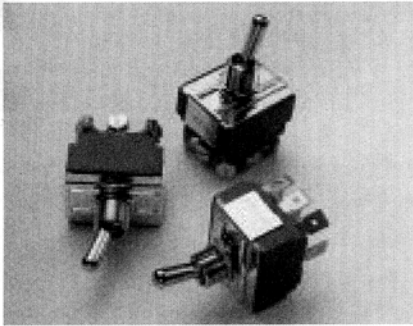
Shading indicates standard configurations.

¹ Additional momentary circuits are available. Consult factory for details.

2 SWITCHES & KNOBS

H-Series

Toggle Switches



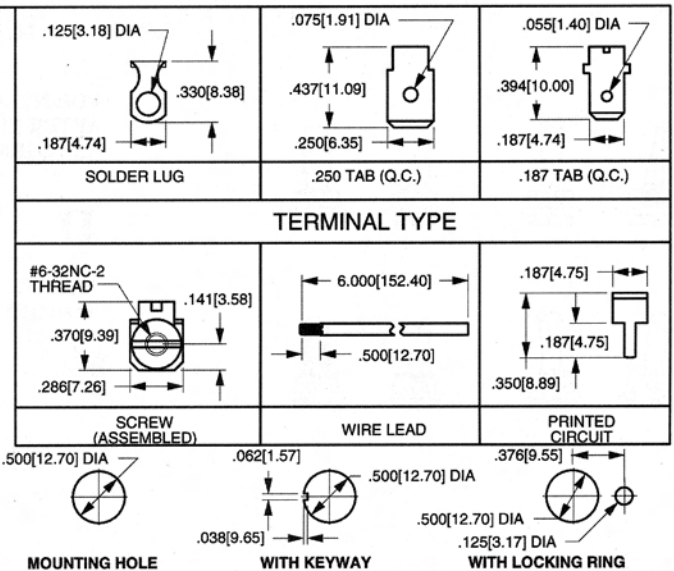
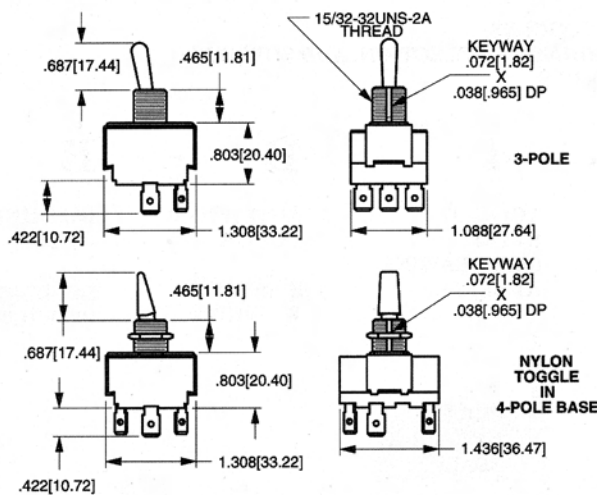
The H-Series toggle switches are heavy-duty, high voltage, high amperage, three-pole switches. These switches have a slow-make, slow-break contact mechanism, are AC rated to 600V, and are available in a wide range of ratings, circuits, terminations and bushing/toggle configurations.

Specifications

- Certifications*: UL, CSA,
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate or Polycarbonate
- Bushing Material: Brass/Nickel Plate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



H		K		25		1		-		73	
SERIES		CIRCUIT		TERMINATION/FUNCTION							
H THREE POLE TOGGLE		K ON-NONE-OFF									
		L ON-NONE-ON									
		M ON-OFF-ON									

NOTES:

Shading indicates standard configurations.

For bushing accessories, see pages 69 and 70.

1 Consult factory for additional circuits.

2 Nylon toggles are available with 4-pole base only.

NBL toggle uses black oxide plated metal bushing for standard construction. NWH toggle uses nickel plated metal bushing for standard construction.

TOGGLE STYLE²

BAT	TOGGLE BUSHING LENGTH	SUFFIX NO.	NEOPRENE SEAL
	.687	.465	73 78
	1.25	.343	B2 ---

BAT



NYLON



.687 .465 .687 .465

NBL3

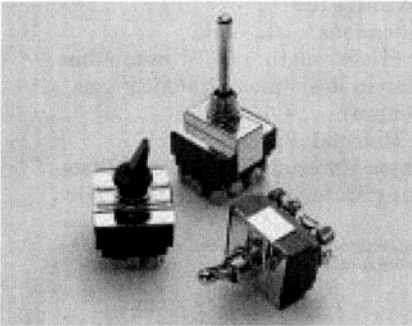
NWH3

NBL8

NWH8

I-Series

Toggle Switches

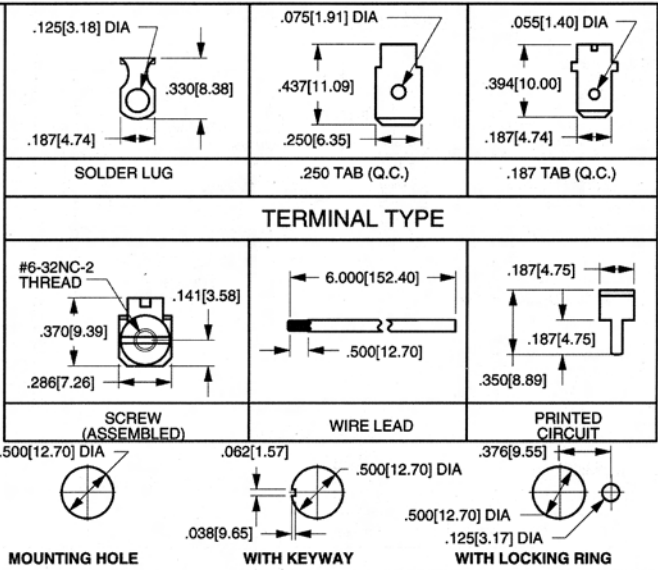
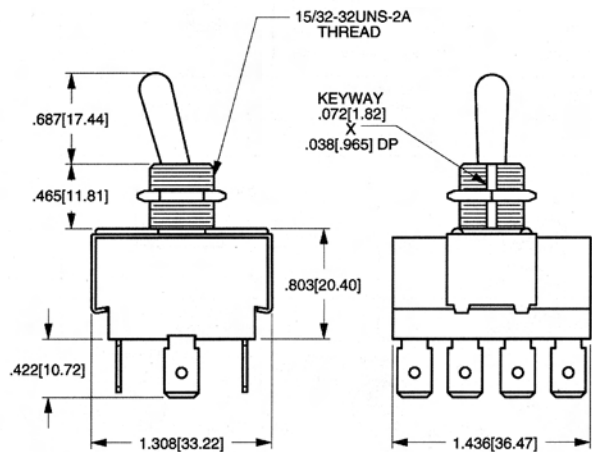


The I-Series toggle switches are heavy-duty, four pole switches with a slow-make, slow-break contact mechanism. These switches are available in a wide range of terminations, circuits and bushing/toggle configurations.

- Specifications**
- Certifications*: UL, CSA
 - Dielectric Strength: 1,000V (minimum)
 - Insulation Resistance: 100 Megohms (minimum)
 - Base Material: Phenolic
 - Actuator Material: Brass/Nickel Plate or Polycarbonate
 - Bushing Material: Brass/Nickel Plate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



I		K		25		1		-		73	
SERIES		RATING		TERMINATION/FUNCTION							
I FOUR POLE TOGGLE		25 10A 250VAC 15A 125VAC 3/4HP 125-250VAC 1, 2 OR 3 PHASE		FUNCTION		SOLDER LUG	.250 TAB (QC)	.187 TAB (QC)	SCREW TERM.	WIRE LEAD	PC TERM.
CIRCUIT¹				ON-NONE-OFF	0	1	3	4	5	6	
				(ON)-NONE-OFF	A	B	D	E	F	G	
				ON-NONE-(OFF)	L	M	R	S	T	U	
K ON-NONE-OFF				ON-NONE-ON	0	1	3	4	5	6	
L ON-NONE-ON				ON-NONE-(ON)	A	B	D	E	F	G	
M ON-OFF-ON				ON-OFF-ON	0	1	3	4	5	6	
				ON-OFF-(ON)	A	B	D	E	F	G	
				(ON)-OFF-(ON)	L	M	R	S	T	U	
TOGGLE STYLE²											

- K** ON-NONE-OFF
L ON-NONE-ON
M ON-OFF-ON

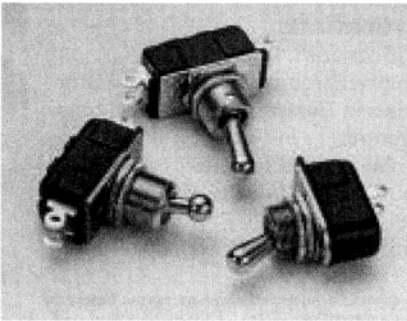
TOGGLE STYLE²

BAT	TOGGLE BUSHING LENGTH	SUFFIX LENGTH	NEOPRENE SEAL NO.
	.406	.343	52
	.562	.465	63
	.687	.465	73
	1.00	.343	A2
	1.25	.465	B3
NYLON	.687	.465	NBL3
	.687	.465	NWH3

NOTES:
Shading indicates standard configurations.
For bushing accessories, see pages 69 and 70.
1 Consult factory for additional circuits.
2 NBL toggle uses black oxide plated metal bushing for standard construction. NWH toggle uses nickel plated metal bushing for standard construction.
Momentary functions are available with only 63, 73 or 78 toggles.

110/216-Series

Toggle Switches



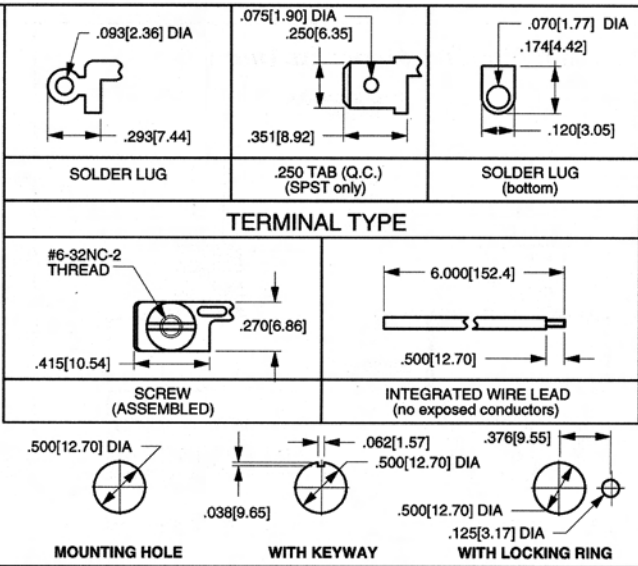
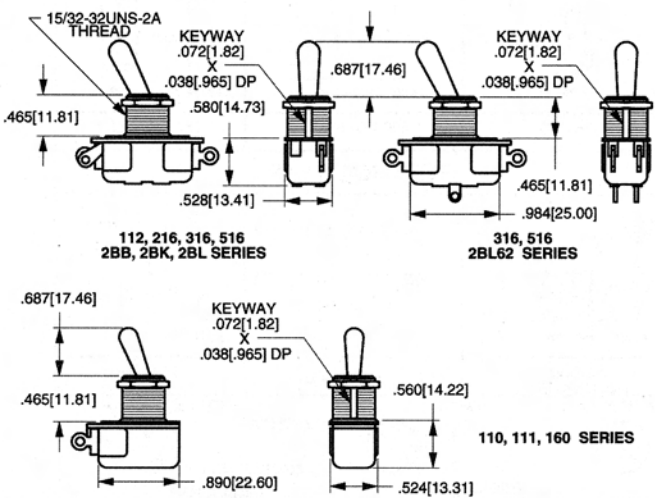
The 110/216-Series toggle switches utilize a quick-make, quick-break contact mechanism and are available in both single and double pole. These switches are 125-250 volts AC/DC rated and suitable for shallow back panel applications. They are available in a range of circuits, terminations and bushing/toggle configurations.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate
- Bushing Material: Brass/Nickel Plate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]



110

73

SERIES

MAINTAINED	(ON) MOMENTARY NORMALLY OPEN	(OFF) MOMENTARY NORMALLY CLOSED	TERMINAL	CIRCUIT & POLES	RATING ¹
110 110-B 110-S 111-16	110-M-NO 110-BM-NO 110-SM-NO 111-16M-NO	110-M-NC 110-BM-NC 110-SM-NC 111-16M-NC	SOLDER LUG-END SOLDER LUG-BTM SCREW TERM. WIRE LEAD	SP-ST	3A 250V 6A 125V
112 112-A	112-M 112-M-A	NONE	SOLDER LUG-END WIRE LEAD	SP-DT	1A 250V 3A 125V
216 216-A	216-M-NO 216-M-ANO	216-M-NC 216-M-ANC	SOLDER LUG-END WIRE LEAD	DP-ST	
316 316-B	NONE	316-M 316-BM	SOLDER LUG SOLDER LUG-BTM	DP-DT	
516 516-A 516-B	NONE	516-M 516-AM 516-BM	SOLDER LUG-END WIRE LEAD SOLDER LUG-BTM	2 CIRCUIT	
2BB65 2BB62	NONE	NONE	WIRE LEAD SOLDER LUG-END	SP-DT	6A 125VAC
2BK65 2BK62	NONE	NONE	WIRE LEAD SOLDER LUG-END	DP-ST	3A 250V 6A 125V
2BL62 2BL63	NONE	NONE	SOLDER LUG-END SOLDER LUG-BTM	DP-DT	
160H 160H-A 160H-B 160H-S	NONE	NONE	SOLDER LUG-END WIRE LEAD SOLDER LUG-BTM SCREW TERM.	SP-ST	5A 250V 10A 125V 1/4HP 125V

TOGGLE STYLE²

	TOGGLE LENGTH	BUSHING LENGTH	SUFFIX NO.	NEOPRENE SEAL
BAT	.375 .500 .687	.343 .465 .465	52 63 73	57 68 78
BALL	.375 .375	.250 .343	21 22	---

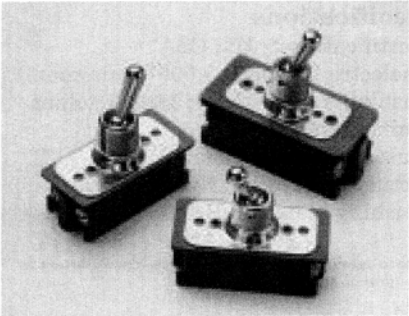
NOTES:
Shading indicates standard configurations.
Tab terminals available on all above SP-ST switches. Add suffix /TABS.
(ex.) 110-73/TABS
1 Additional ratings available. Consult factory.
2 Momentary functions are available only with 73 toggles.

DK/EK-Series

Toggle Switches

2

SWITCHES & KNOBS

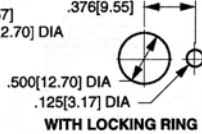
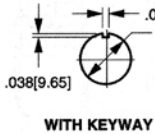
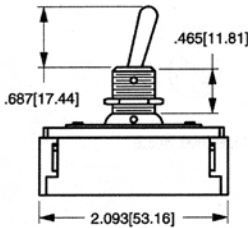
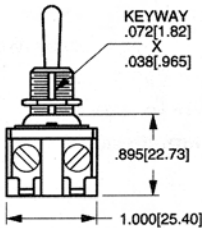
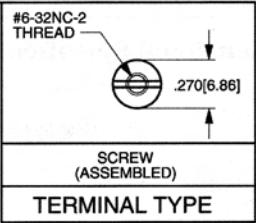
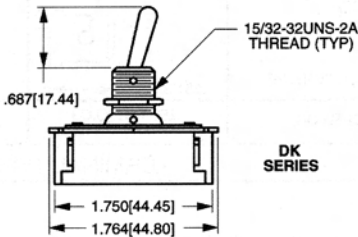
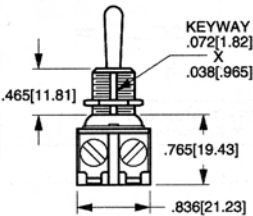


The DK/EK-Series toggle switches are quick-make and quick-break type switches, suitable for high amperage AC/DC motor control. These heavy-duty switches are supplied with plated brass toggles and bushings in a phenolic base.

- Specifications**
- Certifications*: UL, CSA
 - Dielectric Strength: 1,000 V (minimum)
 - Insulation Resistance: 100 Megohms (minimum)
 - Base Material: Phenolic
 - Actuator Material: Brass/Nickel Plate
 - Bezel Material: Brass/Nickel Plate

* Due to ongoing technological advances, consult factory for certification specifics.

Dimensional Specifications: in. [mm]

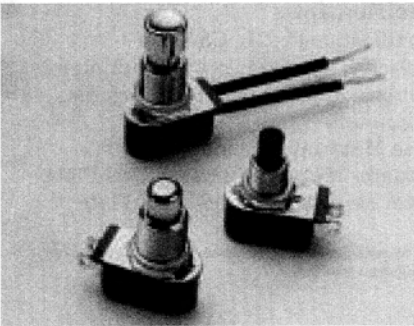


DK	28	4	-	73
SERIES/CIRCUIT	RATING	TERMINATION	TOGGLE STYLE	
DA ON-OFF SINGLE POLE DK ON-OFF DOUBLE POLE	28 8A 250V 16A 125V 1HP 125-250V	4 SCREW TERMINAL	TOGGLE BUSHING SUFFIX LENGTH LENGTH NO.	
			BALL	.500 .343 32
			BAT	.687 .343 72 .687 .465 73

EK	20	4	-	73
SERIES/CIRCUIT	RATING	TERMINATION	TOGGLE STYLE	
EA ON-OFF SINGLE POLE EK ON-OFF DOUBLE POLE	20 10A 250V 20A 125V 1 1/2HP 125-250V	4 SCREW TERMINAL	TOGGLE BUSHING SUFFIX LENGTH LENGTH NO.	
			BALL	.500 .343 32
			BAT	.687 .343 72 .687 .465 73

NOTES:
Shading indicates standard configurations.

P26-Series

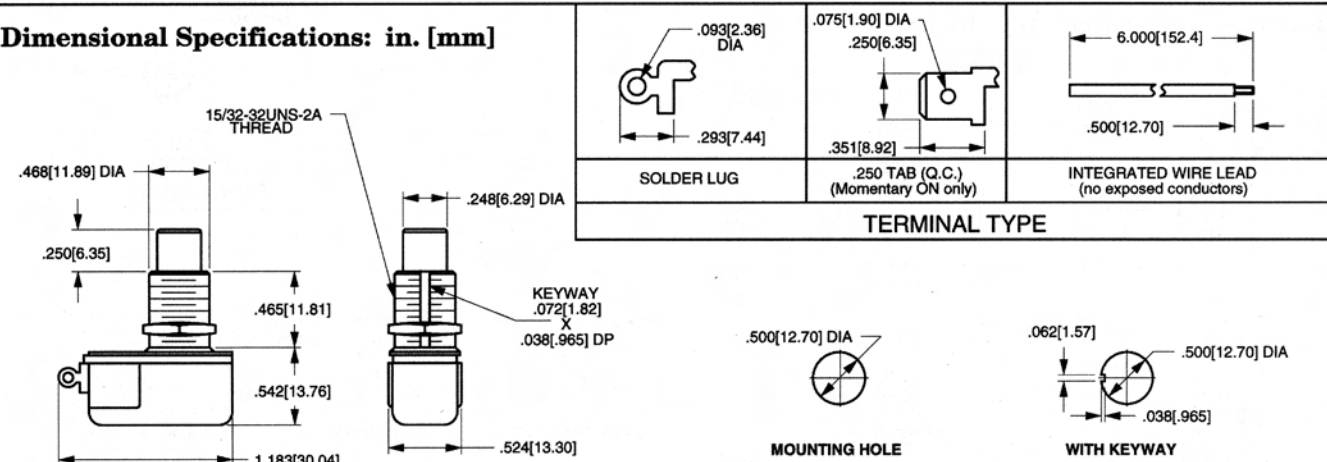


The P26-Series pushbutton switches are single pole, AC rated for 8 amps at 125 VAC and suitable for shallow back panel applications. These switches are momentary action with a medium actuation force (13 oz. typical). The P26-Series switch is equipped with a slow-make, slow-break contact mechanism.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Nylon or Brass
- Bushing Material: Brass/Nickel Plate

* Due to ongoing technological advances, consult factory for certification specifics.

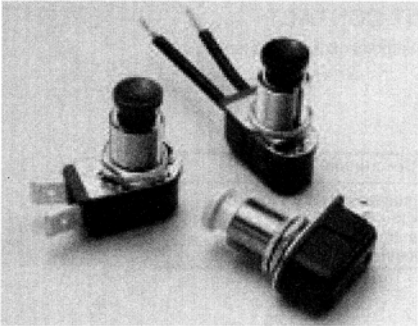


SERIES	RATING	TERMINATION/ FUNCTION	BUSHING ¹	LENGTH	DIAMETER
P SINGLE POLE PUSHBUTTON	26 3A 250VAC 6A 125VAC 3/4A 125V	A SOLDER LUG OFF-(ON)	1A	.406	.375
	28 4A 250VAC 8A 125VAC 1A 125V	B .250TAB (QC) OFF-(ON)	1B	.406	.468
	265 3A 250VAC 6A 125VAC 3/4A 125V 5A 12V	F WIRE LEAD OFF-(ON)	1C	.465	.375
	267 3A 277VAC 6A 125VAC	L SOLDER LUG ON-(OFF)	1D	.465	.468
		T WIRE LEAD ON-(OFF)			
			BL BLACK NYLON		
			RD RED NYLON		
			RND MTL ROUND METAL		
			CON MTL CONCAVE METAL		

NOTES:
Shading indicates standard configurations.
1 For panel mounting to assure equal button heights, use bushing 1A or 1B for Momentary ON and 1C or 1D for Momentary OFF.
2 Round metal and concave metal buttons are only available with 1D bushing, which will be .562 in length.



P27-Series



The P27-Series pushbutton switches are single pole, AC/DC rated switches suitable for shallow back panel applications. These switches are momentary action with a medium actuation force (26 oz. typical). The P27-Series switch is equipped with a slow-make, slow-break contact mechanism, rated at 6 amps with a nylon concave pushbutton.

Pushbutton Switches

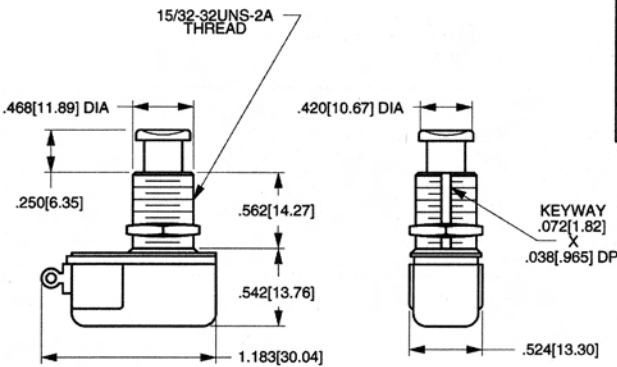
- Specifications**
- Certifications*: UL, CSA
 - Dielectric Strength: 1,000 V (minimum)
 - Insulation Resistance: 100 Megohms (minimum)
 - Base Material: Phenolic
 - Actuator Material: Nylon
 - Bushing Material: Brass/Nickel Plate

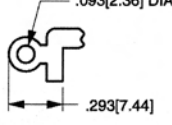
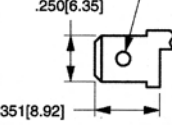
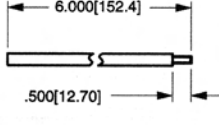
* Due to ongoing technological advances, consult factory for certification specifics.

2

S
W
I
T
C
H
E
S
&
K
N
O
B
S

Dimensional Specifications: in. [mm]



 SOLDER LUG	 .250 TAB (Q.C.) (Momentary ON only)	 INTEGRATED WIRE LEAD (no exposed conductors)
TERMINAL TYPE		



P
SERIES
P SINGLE POLE
PUSHBUTTON
MOMENTARY

27
RATING
27 3A 250VAC
6A 125VAC
3/4A 125V

A
TERMINATION/
FUNCTION¹
A SOLDER LUG
OFF-(ON)
B .250TAB (QC)
OFF-(ON)
F WIRE LEAD
OFF-(ON)
L SOLDER LUG
ON-(OFF)
T WIRE LEAD
ON-(OFF)

BL
CONCAVE BUTTON
BL BLACK NYLON
RD RED NYLON
WH WHITE NYLON

NOTES:
Shading indicates standard configurations.
1 Momentary OFF functions (L and T) available only with 3/4A 125V.