

# Tippette

## Full Sized Rocker Switches

The Tippette Series is a traditionally styled rocker switch, available in sealed or unsealed versions. These switches are appropriate for use in general purpose applications which may or may not require a modicum of environmental protection. The Tippette Series is available in both illuminated and non-illuminated versions and features a wide variety of circuits, actuator styles and bracket options. This versatile offering includes international agency certifications and ratings to 26 amps for select circuits.



**Carling Technologies®**

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### Electrical

|                |                                                                                                                                                                                              |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact Rating | 15 amps, 125 VAC<br>10 amps, 250 VAC<br>3/4 HP 125-250 VAC                                                                                                                                   |
| Life           | 15 amps, 12-30 VDC<br>25,000 cycles circuit dependent<br>50,000 cycles circuit dependent<br>consult factory for applicable circuits.                                                         |
| Contacts       | Fine silver, silver cad-oxide                                                                                                                                                                |
| Terminals      | Brass or copper/silver plate<br>1/4" (6.3mm) Quick Connect terminations standard.<br>Solder lug - Brass Tin Plated<br>Wire Lead 16 gauge standard 105°C<br>600VAC<br>Screw Terminals - Brass |

### Mechanical

|           |                        |
|-----------|------------------------|
| Endurance | 100,000 cycles minimum |
|-----------|------------------------|

### Physical

|                |                                                                   |
|----------------|-------------------------------------------------------------------|
| Lighted        | Incandescent - rated 10,000 hours<br>Neon - rated 25,000 hours    |
| Seals          | Bracket - Actuator WBL/MBL<br>optional external gasket panel seal |
| Base           | Phenolic (150°C)                                                  |
| Rocker/Bracket | Nylon 66 (105°C)                                                  |

### Agency Certifications



Select circuits and constructions with IEC approvals are available. Consult factory

### Mounting

**MOUNTING HOLE**  
(Nylon Snap-in Brackets)  
Panel Thickness:  
.040 min. - .250 max.



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

TIGA51 - 6M - BL - MBL

1  
Base Part Number2  
Actuator Style3  
Actuator Color4  
Bracket**1 BASE PART NUMBER: SERIES/POLES/CIRCUITRY<sup>8,11,13</sup>/RATING<sup>7</sup>/TERMINATION<sup>10</sup>****10A 250VAC, 15A 125VAC, 3/4 HP 125-250VAC, 15A 6-28VDC<sup>7</sup>****Single Pole in Double Pole base<sup>2</sup>**

| solder lug | .250 tab | screw term. | wire leads |               |
|------------|----------|-------------|------------|---------------|
| TIGA50     | TIGA51   | TIGA54      | TIGA55     | On-None-Off   |
| TIGA5A     | TIGA5B   | TIGA5E      | TIGA5F     | (On)-None-Off |
| TIGA5L     | TIGA5M   | TIGA5S      | TIGA5T     | On-None-(Off) |
| TIGB50     | TIGB51   | TIGB54      | TIGB55     | On-None-On    |
| TIGB5A     | TIGB5B   | TIGB5E      | TIGB5F     | On-None-(On)  |
| TIGC50     | TIGC51   | TIGC54      | TIGC55     | On-Off-On     |
| TIGC5A     | TIGC5B   | TIGC5E      | TIGC5F     | On-Off-(On)   |
| TIGC5L     | TIGC5M   | TIGC5S      | TIGC5T     | (On)-Off-(On) |

**Three Pole**

| solder lug | .250 tab | screw term. | wire leads |               |
|------------|----------|-------------|------------|---------------|
| TIHK50     | TIHK51   | TIHK54      | TIHK55     | On-None-Off   |
| TIHK5A     | TIHK5B   | TIHK5E      | TIHK5F     | (On)-None-Off |
| TIHK5L     | TIHK5M   | TIHK5S      | TIHK5T     | On-None-(Off) |
| TIHL50     | TIHL51   | TIHL54      | TIHL55     | On-None-On    |
| TIHL5A     | TIHL5B   | TIHL5E      | TIHL5F     | On-None-(On)  |
| TIHM50     | TIHM51   | TIHM54      | TIHM55     | On-Off-On     |
| TIHM5A     | TIHM5B   | TIHM5E      | TIHM5F     | On-Off-(On)   |
| TIHM5L     | TIHM5M   | TIHM5S      | TIHM5T     | (On)-Off-(On) |

**VDE APPROVED****10A 250VAC, 15A 125VAC, 12(6)A 250VAC T85****Single Pole in Double Pole base<sup>2</sup>**

| solder lug | .250 tab | wire lead |             |
|------------|----------|-----------|-------------|
| TIGA90     | TIGA91   | TIGA95    | On-None-Off |
| TIGB90     | TIGB91   | TIGB95    | On-None-On  |
| TIGC90     | TIGC91   | TIGC95    | On-Off-On   |

**Double Pole**

| solder lug | .250 tab | screw term. | wire leads |
|------------|----------|-------------|------------|
| TIGK50     | TIGK51   | TIGK54      | TIGK55     |
| TIGK5A     | TIGK5B   | TIGK5E      | TIGK5F     |
| TIGK5L     | TIGK5M   | TIGK5S      | TIGK5T     |
| TIGL50     | TIGL51   | TIGL54      | TIGL55     |
| TIGL5A     | TIGL5B   | TIGL5E      | TIGL5F     |
| TIGM50     | TIGM51   | TIGM54      | TIGM55     |
| TIGM5A     | TIGM5B   | TIGM5E      | TIGM5F     |
| TIGM5L     | TIGM5M   | TIGM5S      | TIGM5T     |

**Four Pole**

| solder lug | .250 tab | screw term. | wire leads |
|------------|----------|-------------|------------|
| TIK50      | TIK51    | TIK54       | TIK55      |
| TIK5A      | TIK5B    | TIK5E       | TIK5F      |
| TIK5L      | TIK5M    | TIK5S       | TIK5T      |
| TIIL50     | TIIL51   | TIIL54      | TIIL55     |
| TIIL5A     | TIIL5B   | TIIL5E      | TIIL5F     |
| TIIM50     | TIIM51   | TIIM54      | TIIM55     |
| TIIM5A     | TIIM5B   | TIIM5E      | TIIM5F     |
| TIIM5L     | TIIM5M   | TIIM5S      | TIIM5T     |

**Double Pole**

| solder lug | .250 tab | wire lead |
|------------|----------|-----------|
| TIGK90     | TIGK91   | TIGK95    |
| TIGL90     | TIGL91   | TIGL95    |
| TIGM90     | TIGM91   | TIGM95    |

Additional ratings up to 20A 125-277VAC, 1 1/2HP 125 VAC, 2HP 250VAC are available.  
Consult factory for specifics.**2 ACTUATOR STYLE**

|    |                                                   |    |                                               |
|----|---------------------------------------------------|----|-----------------------------------------------|
| 1S | Angular/Smooth Face Gloss <sup>12</sup>           | 6M | Curved/Smooth Face Matte <sup>3</sup>         |
| 1C | Angular/Cross Serrations Gloss <sup>12</sup>      | 6S | Curved/Smooth Face Gloss <sup>3</sup>         |
| 1F | Flatted/Smooth Face Gloss <sup>12</sup>           | 7S | Rounded Paddle/Smooth Face Gloss <sup>1</sup> |
| 1L | Angular/Longline Serrations Gloss <sup>1,12</sup> | 7N | Witch's Hat/Narrow <sup>15</sup>              |
| 2L | Long Smooth/Narrow <sup>15</sup>                  | 7P | Witch's Hat/Wide <sup>15</sup>                |

**3 ACTUATOR COLOR<sup>9</sup>**

BL black WH white RD red

**4 BRACKET STYLE<sup>9</sup>**

|        |                                           |
|--------|-------------------------------------------|
| A      | Screw Mount <sup>5</sup>                  |
| B      | Screw Mount <sup>5,12</sup>               |
| C      | Screw Mount <sup>5</sup>                  |
| H      | Screw Mount <sup>5</sup>                  |
| NBL    | Nylon Black                               |
| WBL    | Watershedding Black <sup>4</sup>          |
| MBL    | Marine Style Black <sup>4,6</sup>         |
| FN     | Metal Snap-In <sup>5</sup>                |
| FN BLK | Black Metal Snap-In <sup>5</sup>          |
| FN SS  | Stainless Steel Snap-In <sup>5</sup>      |
| FW     | Wide Stainless Steel Snap-In <sup>5</sup> |

**Notes:**

- 1 NBL, FN, & FW brackets only.
- 2 For single pole switch in a single pole base, specify TIL with single pole circuitry/rating/termination.
- 3 NBL, WBL, & MBL brackets only. With 6M actuator, brackets also will be matte finish.
- 4 6M & 6S actuators only.
- 5 Not available with 6M & 6S actuators.
- 6 Consists of WBL bracket, neoprene seal, and dummy rivets at open holes. Consult factory for agency approval status.
- 7 All ratings are appropriate for usage in low voltage applications.
- 8 For additional special circuits, see page 21.....?!!?!?
- 9 Custom colors are available, consult factory.
- 10 .187 tab and PC terminations are also available. Consult factory for catalog number callout.
- 11 ( ) momentary
- 12 Not available with WBL or MBL style brackets.
- 13 Additional circuits available. See page 21.
- 14 Available with bracket A, C or H only.
- 15 Not available with MBL, WBL or H brackets. Can be supplied as a double rocker to control separate poles of a TIG, TIH or TII switch. Consult factory for details.

LTILA51 - 6M - BL - RC - MBL - 12V

1  
Base Part Number2  
Actuator Style3  
Actuator Color4  
Lens Color5  
Bracket6  
Lamp Voltage**1 BASE PART NUMBER: SERIES/POLES/ILLUMINATION/CIRCUITRY<sup>12</sup>/RATING<sup>10</sup>/TERMINATION<sup>14</sup>****10A 250VAC, 15A 125VAC, 3/4 HP 125-250VAC, 15A 15-28VDC****illuminated Single Pole in Double Pole base**

| solder lug | .250 tab | screw term. | wire leads |               |
|------------|----------|-------------|------------|---------------|
| LTILA50    | LTILA51  | LTILA54     | LTILA55    | On-None-Off   |
| LTILA5A    | LTILA5B  | LTILA5E     | LTILA5F    | (On)-None-Off |
| LTILA5L    | LTILA5M  | LTILA5S     | LTILA5T    | On-None-(Off) |
| LTILB50    | LTILB51  | LTILB54     | LTILB55    | On-None-On    |
| LTILB5A    | LTILB5B  | LTILB5E     | LTILB5F    | On-None-(On)  |
| LTILC50    | LTILC51  | LTILC54     | LTILC55    | On-Off-On     |
| LTILC5A    | LTILC5B  | LTILC5E     | LTILC5F    | On-Off-(On)   |
| LTILC5L    | LTILC5M  | LTILC5S     | LTILC5T    | (On)-Off-(On) |

**illuminated Double Pole**

| solder lug | .250 tab | screw term. | wire leads |
|------------|----------|-------------|------------|
| LTIGK50    | LTIGK51  | LTIGK54     | LTIGK55    |
| LTIGK5A    | LTIGK5B  | LTIGK5E     | LTIGK5F    |
| LTIGK5L    | LTIGK5M  | LTIGK5S     | LTIGK5T    |
| LTIGL50    | LTIGL51  | LTIGL54     | LTIGL55    |
| LTIGL5A    | LTIGL5B  | LTIGL5E     | LTIGL5F    |
| LTIGM50    | LTIGM51  | LTIGM54     | LTIGM55    |
| LTIGM5A    | LTIGM5B  | LTIGM5E     | LTIGM5F    |
| LTIGM5L    | LTIGM5M  | LTIGM5S     | LTIGM5T    |

Additional ratings up to 12A 250VAC, 17A 125 VAC, 3/4 HP 125 VAC, 1HP 250VAC are available.  
Consult factory for specifics.

Three pole switch is also available: Substitute H for fourth digit of part number. ex. LTIIHK51

**2 ACTUATOR STYLE<sup>1</sup>**

|    |                                                |
|----|------------------------------------------------|
| 1S | Angular/Smooth Face Gloss <sup>1</sup>         |
| 1C | Angular/Cross Serrations Gloss <sup>1</sup>    |
| 1L | Angular/Longline Serrations Gloss <sup>1</sup> |
| 6M | Curved/Smooth Face Matte <sup>3</sup>          |
| 6S | Curved/Smooth Face Gloss <sup>3</sup>          |
| 7S | Rounded Paddle/Smooth Face Gloss <sup>2</sup>  |

**3 ACTUATOR COLOR<sup>11</sup>**

BL black WH white RD red

**4 LENS COLOR<sup>13</sup>**

|    |                   |    |       |    |                    |
|----|-------------------|----|-------|----|--------------------|
| AM | amber             | RC | red   | GN | green <sup>7</sup> |
| LU | blue <sup>7</sup> | CL | clear | WH | white              |

**5 BRACKET STYLE<sup>11</sup>**

|        |                                        |
|--------|----------------------------------------|
| NBL    | Nylon Black                            |
| WBL    | Watershedding Black <sup>5</sup>       |
| MBL    | Marine Style Black <sup>3,8</sup>      |
| FN     | Metal Snap-In <sup>4,6</sup>           |
| FN BLK | Black Metal Snap-In <sup>4,6</sup>     |
| FN SS  | Stainless Steel Snap-In <sup>4,6</sup> |

**6 LAMP VOLTAGE**

|                   |          |      |          |     |         |
|-------------------|----------|------|----------|-----|---------|
| neon <sup>9</sup> |          |      |          |     |         |
| 125N              | 125 volt | 250N | 250 volt |     |         |
| incandescent      |          |      |          |     |         |
| 6V                | 6 volt   | 12V  | 12 volt  | 18V | 18 volt |
| 24V               | 24 volt  | 28V  | 28 volt  |     |         |

**Notes:**

- 1 NBL, FN, & FW brackets only. Double pole circuits provided with 3 pole base.
- 2 LTIL-Series with NBL, FN, & FW brackets only.
- 3 NBL, WBL, & MBL brackets only. With 6M actuator, bracket will also be matte finish.
- 4 1S, 1C, 1L & 7S with NBL bracket only available with LTIL-Series.
- 5 6M, 6S actuators only.
- 6 Not available with 6M & 6S actuators.
- 7 Not recommended with neon lamps.
- 8 Consists of WBL bracket, neoprene seal, dummy rivets at open holes. Consult factory for agency approval status.
- 9 Not recommended with blue or green lenses.
- 10 All ratings are appropriate for usage in low voltage applications.
- 11 Custom colors and additional bracket styles are available, consult factory.
- 12 ( ) - momentary
- 13 All double throw circuits supplied with two lenses. To specify two different lens colors, specify second color, after first color. (ex. LTIGM51-6S-BL-RC/GN-WBL-12V)
- 14 .187 tab and PC terminations are also available. Consult factory for catalog number callout.

**1C**  
CROSS-LINE W/ONE LENS



**1L**  
LONG-LINE W/ONE LENS



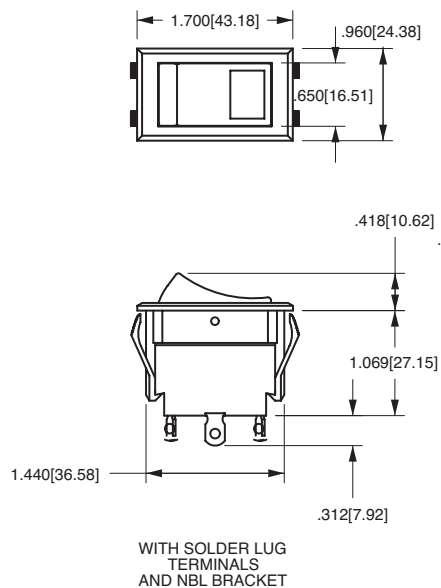
**1S**  
SMOOTH W/ONE LENS



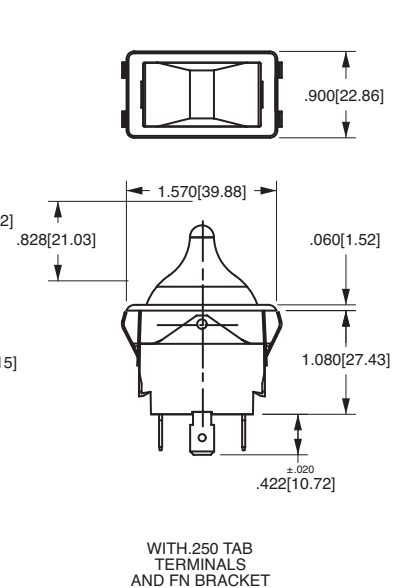
**1F**  
FLATTED STYLE NO LENS



**6M, 6S**  
CURVED W/ONE LENS



**7S**  
TOGGLE-STYLE W/ONE LENS





#### SPECIAL CIRCUITS FOR TIPPETTE ROCKER SWITCHES

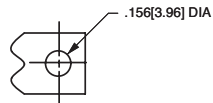
| Circuit                  | Position 1         | Position 2       | Position 3   |
|--------------------------|--------------------|------------------|--------------|
| Progressive Two Circuit  |                    |                  |              |
| GG                       | BOTH CIRCUITS ON   | 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    |                    |                  |              |
| GO                       | ON                 | OFF              | ON           |
| GX                       | ON                 | NONE             | ON           |

( ) Indicates momentary function.

## Dimensional Specifications: in. [mm]



**TAPPED HOLE**  
Standard with  
A & B Brackets



**CLEARANCE HOLE**  
Standard with  
C Bracket

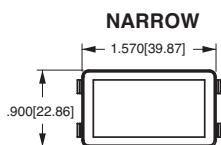


**MOUNTING HOLE**

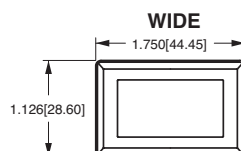
(Nylon Snap-in Brackets)  
Panel Thickness:  
.030 min. - .250 max.

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

| TIL                      | TIG                          | TII                                                                                                          | TIH                     |
|--------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|
| <p><b>A</b><br/>TIL</p>  | <p><b>A</b><br/>TIG</p>      | <p><b>A</b><br/>TII</p>                                                                                      | <p><b>A</b><br/>TIH</p> |
| <p><b>B</b><br/>TIL</p>  | <p><b>B</b><br/>TIG, TII</p> |                                                                                                              |                         |
| <p><b>CX</b><br/>TIL</p> | <p><b>C</b><br/>TIG</p>      | <p><b>C</b><br/>TIH, TII</p>                                                                                 |                         |
|                          | <p><b>H</b><br/>TIG</p>      | <p><b>GCP / GMP</b><br/>GLOSS FINISH / MATTE FINISH<br/><b>HOLE PLUG</b><br/>FOR TIL, TIG, TIH &amp; TII</p> |                         |

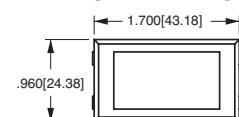


**FN**  
TIL, TIG, TIH, TII  
METAL, SNAP-IN



**FW**  
TIL, TIG, TIH, TII  
METAL, SNAP-IN

### MARINE / STD / WATERSHEDDING



**MBL, NBL, WBL**  
TIG  
BLACK NYLON, SNAP-IN

REV\_SW\_Tippette\_0712