# 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®
Innovative Designs. Powerful Solutions.

**Carling Technologies, Inc.**
**60 Johnson Avenue • Plainville, CT 06062-1177**
**Phone: (860) 793-9281 • Fax: (860) 793-9231**
**Email: sales@carlingtech.com • www.carlingtech.com**

## Electrical

| | |
|---|---|
| Contact Rating | 15 amps, 125 VAC<br>10 amps, 250 VAC<br>3/4 HP 125-250 VAC<br>15 amps, 12-30 VDC |
| Life | 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 600VAC<br>Screw Terminals - Brass |

## Mechanical

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

## Physical

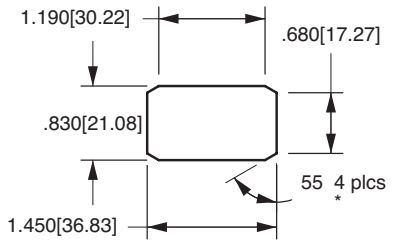
| | |
|---|---|
| Lighted | Incandescent - rated 10,000 hours<br>Neon - rated 25,000 hours |
| Seals | Bracket - Actuator WBL/MBL<br>optional external gasket panel seal |
| Base | Phenolic (150°C) |
| Rocker/Bracket | Nylon 66 (105°C) |

## 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.

*Manufacturer reserves the right to change product specification without prior notice.

# TIGA51 - 6M - BL - MBL

1 Base Part Number | 2 Actuator Style | 3 Actuator Color | 4 Bracket

## 1 BASE PART NUMBER: SERIES/POLES/CIRCUITRY[8,11,13]/RATING[7]/TERMINATION[10]

**10A 250VAC, 15A 125VAC, 3/4 HP 125-250VAC, 15A 6-28VDC[7]**

**Single Pole in Double Pole base[2]**

| 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** | **TIGC54** | On-Off-On |
| **TIGC5A** | **TIGC5B** | **TIGC5E** | **TIGC5F** | On-Off-(On) |
| **TIGC5L** | **TIGC5M** | **TIGC5S** | **TIGC5T** | (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** |

**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** | **TIHM54** | On-Off-On |
| **TIHM5A** | **TIHM5B** | **TIHM5E** | **TIHM5F** | On-Off-(On) |
| **TIHM5L** | **TIHM5M** | **TIHM5S** | **TIHM5T** | (On)-Off-(On) |

**Four Pole**

| solder lug | .250 tab | screw term. | wire leads |
|---|---|---|---|
| **TIIK50** | **TIIK51** | **TIIK54** | **TIIK55** |
| **TIIK5A** | **TIIK5B** | **TIIK5E** | **TIIK5F** |
| **TIIK5L** | **TIIK5M** | **TIIK5S** | **TIIK5T** |
| **TIIL50** | **TIIL51** | **TIIL54** | **TIIL55** |
| **TIIL5A** | **TIIL5B** | **TIIL5E** | **TIIL5F** |
| **TIIM50** | **TIIM51** | **TIIM54** | **TIIM55** |
| **TIIM5A** | **TIIM5B** | **TIIM5E** | **TIIM5F** |
| **TIIM5L** | **TIIM5M** | **TIIM5S** | **TIIM5T** |

**VDE APPROVED**

**10A 250VAC, 15A 125VAC, 12(6)A 250VAC T85**

**Single Pole in Double Pole base[2]**

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

## 3 ACTUATOR COLOR[9]

**BL** black **WH** white **RD** red

## 4 BRACKET STYLE[9]

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

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 Number | 2 Actuator Style | 3 Actuator Color | 4 Lens Color | 5 Bracket | 6 Lamp Voltage

## 1 BASE PART NUMBER: SERIES/POLES/ILLUMINATION/CIRCUITRY[12]/RATING[10]/TERMINATION[14]

**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** | **TIGM5F** |
| **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. LTIHK51

## 2 ACTUATOR STYLE[4]

| | |
|---|---|
| 1S | **Angular/Smooth Face Gloss**[1] |
| 1C | **Angular/Cross Serations Gloss**[1] |
| 1L | **Angular/Longline Serrations Gloss**[1] |
| 6M | **Curved/Smooth Face Matte**[3] |
| 6S | **Curved/Smooth Face Gloss**[3] |
| 7S | **Rounded Paddle/Smooth Face Gloss**[2] |

## 3 ACTUATOR COLOR[11]

**BL** black **WH** white **RD** red

## 4 LENS COLOR[13]

**AM** amber **RC** red **GN** green[7]
**LU** blue[7] **CL** clear **WH** white

## 5 BRACKET STYLE[11]

| | |
|---|---|
| **NBL** | Nylon Black |
| **WBL** | Watershedding Black[5] |
| **MBL** | Marine Style Black[5,8] |
| **FN** | Metal Snap-In[4,6] |
| **FN BLK** | Black Metal Snap-In[4,6] |
| **FN SS** | Stainless Steel Snap-In[4,6] |

## 6 LAMP VOLTAGE

**neon**[9]
**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 and 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.

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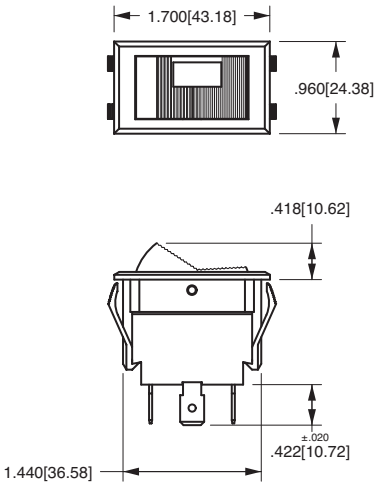
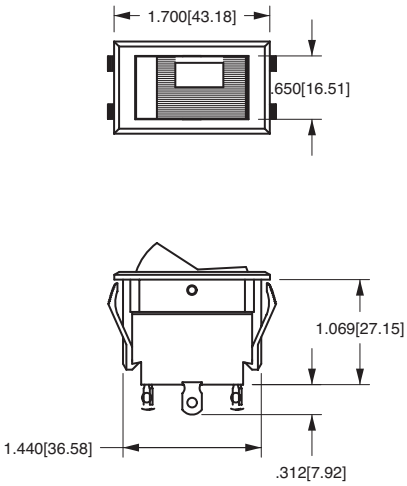
## 1C
CROSS-LINE W/ONE LENS



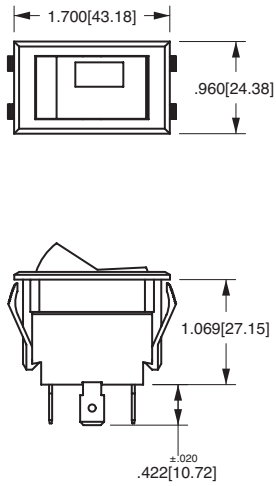

WITH.250 TAB
TERMINALS
AND NBL BRACKET

## 1L
LONG-LINE W/ONE LENS



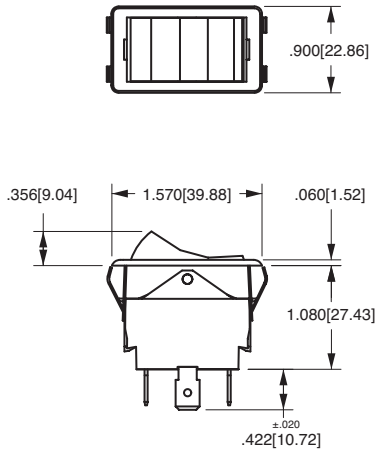

WITH SOLDER LUG
TERMINAL
AND NBL BRACKET

## 1S
SMOOTH W/ONE LENS



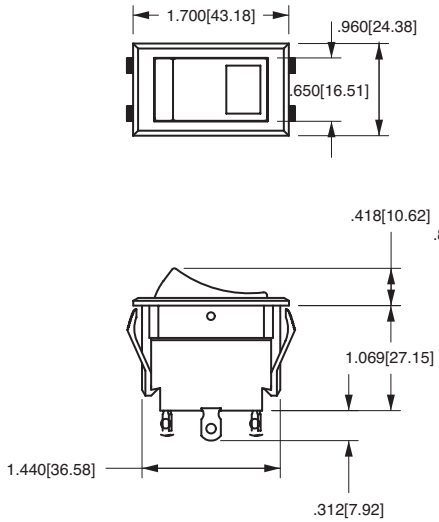

WITH.250 TAB
TERMINALS
AND NBL BRACKET

## 1F
FLATTED STYLE NO LENS



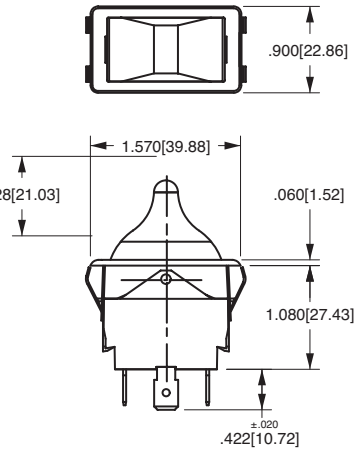

WITH.250 TAB
TERMINALS
AND FN BRACKET

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

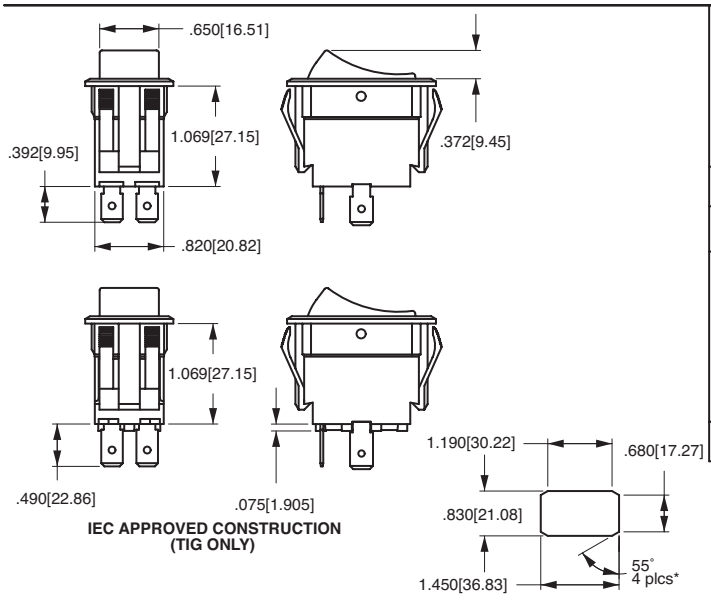


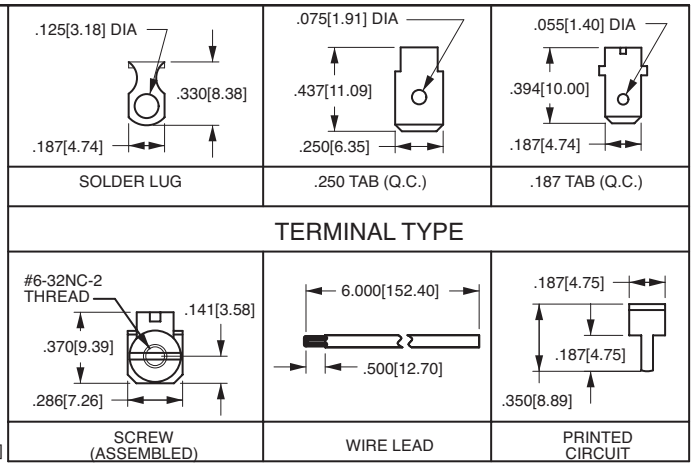

WITH SOLDER LUG
TERMINALS
AND NBL BRACKET

## 7S
TOGGLE-STYLE W/ONE LENS



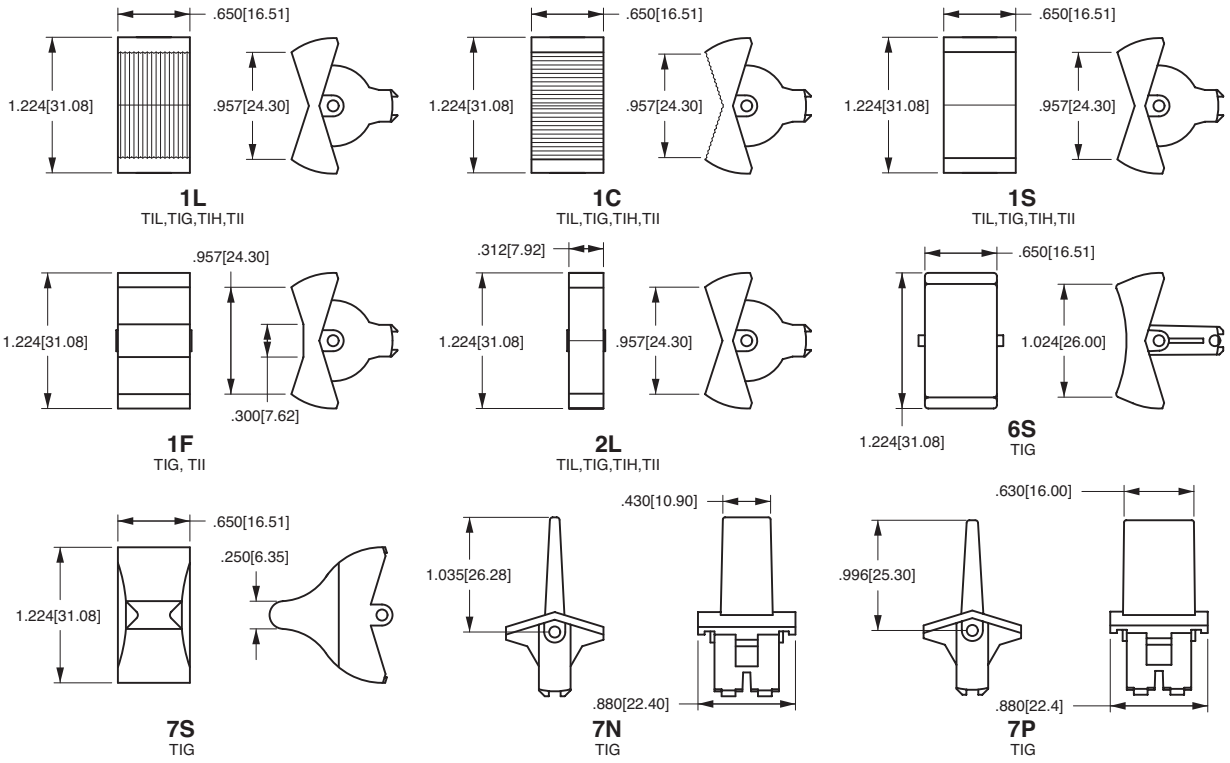

WITH.250 TAB
TERMINALS
AND FN BRACKET




**MOUNTING HOLE**
(Nylon Snap-in Brackets)
Panel Thickness:
.030 min. - .250 max.
Switch should be mounted at 90˚
for maximum water shedding
(45˚ to 90˚ acceptable)

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




## 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 |

( ) Indicates momentary function.

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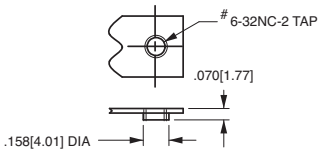
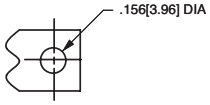
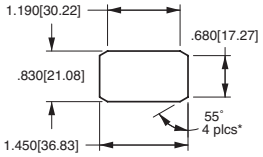
## Dimensional Specifications: in. [mm]



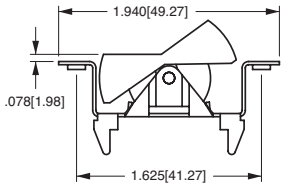
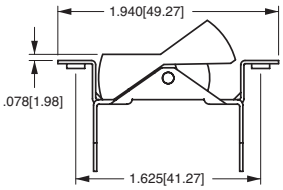
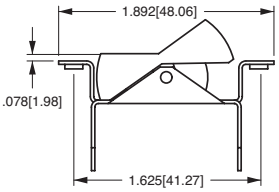
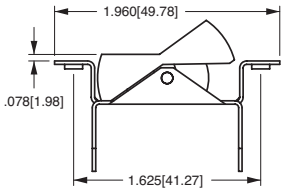
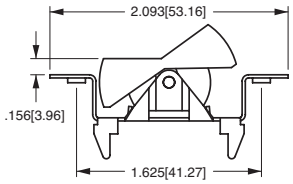
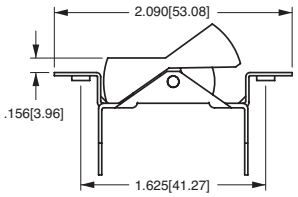
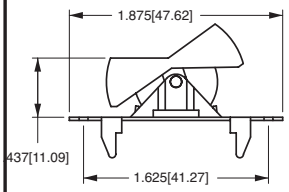
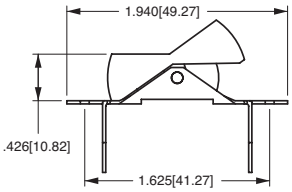
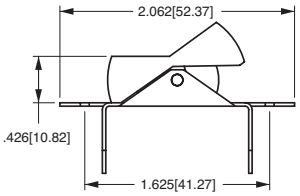
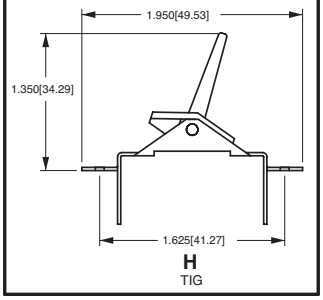
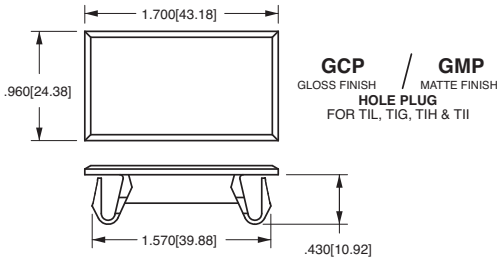

**TAPPED HOLE**
Standard with
A & B Brackets



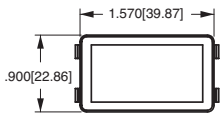

**CLEARANCE HOLE**
Standard with
C Bracket




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

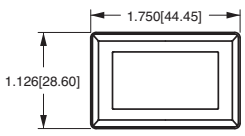
| TIL | TIG | TII | TIH |
|---|---|---|---|
|  |  |  |  |
| **A** TIL | **A** TIG | **A** TII | **A** TIH |
|  |  | | |
| **B** TIL | **B** TII, TIG | | |
|  |  |  | |
| **CX** TIL | **C** TIG | **C** TIH, TII | |
| |  |  | |
| | **H** TIG | **GCP** GLOSS FINISH / **GMP** MATTE FINISH **HOLE PLUG** FOR TIL, TIG, TIH & TII | |

**NARROW**



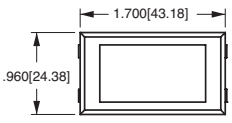

**FN**
TIL, TIG, TIH, TII
METAL, SNAP-IN

**WIDE**




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

**MARINE / STD / WATERSHEDDING**




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

REV_SW_Tippette_0712

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