## FEATURES

- Completely sealed switching chamber
- IP67/IP68
- NEMA 3, 3R, 4,13
- Step-design case provides added space between terminals to prevent shorting
- 1,2 , or 4 -pole circuitry
- Spring-loaded actuating mechanism provides excellent tactile feedback
- UL recognized, File E12252, Vol. 1, Section 44 CSA certified, CE certified
- Optional panel stand-off with O-ring panel seal


## TYPICAL APPLICATIONS

- Industrial equipment
- Military and commercial aviation
- Construction equipment
- Test instruments
- Agricultural machinery
- Process control
- Medical instrumentation


## A WARNING

PERSONAL INJURY DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury. Failure to comply with these instructions could result in death or serious injury.


## GENERAL INFORMATION

Honeywell NT Series toggle switches meet the need for a rugged, costeffective toggle switch. Quality construction features include a seal between the toggle lever and bushing, and between the cover and case. These switches can be used where panels are subject to splashes, hosedowns, or outdoor environments. Complete sealing of the switching chamber enables NT toggles to comply with UL 508, paragraph 13.3 hosedown test. They will also withstand exposure to heavy accumulations of early morning dew that may condense on the control panel in cabs of vehicles left outdoors overnight. The "Easy Start" threaded bushing enables quick alignment of the mounting nut to decrease the chance of cross threading. The panel stand-off with O -ring feature available on some listings eliminates the need for behind-the-panel hardware, provides a uniform panel height, and provides a panel-to-cover seal.

## UL AND CSA ELECTRICAL RATINGS

| Rating Code | Electrical rating |
| :--- | :--- |
| $L 192$ | $10 \mathrm{amps}, 125,250,277 \mathrm{Vac} ; 1 / 4 \mathrm{Hp}, 125 \mathrm{Vac} ; 1 / 2 \mathrm{Hp}, 250,277 \mathrm{Vac} ;$ <br> $3 \mathrm{amps}, 125 \mathrm{Vac}$ "L" |
| L 191 | $15 \mathrm{amps}, 125,250,277 \mathrm{Vac} ; 1 / 2 \mathrm{Hp}, 125 \mathrm{Vac} ; 1 \mathrm{Hp}, 250,277 \mathrm{Vac} ;$ <br> $5 \mathrm{amps}, 125 \mathrm{Vac} " \mathrm{~L}$ " |

## ELECTRICAL RATINGS

| Elect. Rating Code | 28 Volts DC |  |  | 115 <br> Vdc <br> Res. | 250 <br> Vdc <br> Res. | 115 Vac, $60 \mathrm{~Hz} \& 400 \mathrm{~Hz}$ |  |  | 230 <br> Vac <br> Res |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ind. | Res. | Lamp |  |  | Ind. | Res. | Lamp |  |
| 1 | 12 | 20 | 5 | 0.75 | 0.5 | 10 | 15 | 3 | 6 |
| 2 | 10 | 15 | 4 | 0.75 | 0.5 | 7 | 15 | 2 | 6 |
| 3 | 15 | 20 | 7 | 0.75 | 0.5 | 15 | 15 | 4 | 6 |
| 4 | 10 | 18 | 5 | 0.75 | 0.5 | 8 | 11 | 2 | 6 |

## A WARNING

## MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.
Failure to comply with these instructions could result in death or serious injury.

Sealed Toggle Switches
NT Series/Step Base

NT 2-POSITION ORDER GUIDE

| No. of Poles | Circuits made with toggle at: |  | UL Rating Code | Elect. Rating Code | Standard Lever Termination Style |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Keyway Position | Opposite Keyway |  |  | Screw | Solder | Q-C |
| 1 | OFF | 2-3 | L191 | 1 | 1NT1-2 | 11NT1-2 | 1NT91-2 |
|  | 1-2 | 2-3 | L191 | 1 | 1NT1-3 | 11NT1-3 | 1NT91-3 |
|  | OFF* | 2-3 | L192 | 2 | 1NT1-4 | 11NT1-4 | 1NT91-4 |
|  | 1-2* | OFF | L192 | 2 | 1NT1-6 | 11NT1-6 | 1NT91-6 |
|  | 1-2* | 2-3 | L192 | 2 | 1NT1-8 | 11NT1-8 | 1NT91-8 |
| 2 | OFF | 2-3, 5-6 | L191 | 3 | 2NT1-2 | 12NT1-2 | 2NT91-2 |
|  | 1-2, 4-5 | 2-3, 5-6 | L191 | 3 | 2NT1-3 | 12NT1-3 | 2NT91-3 |
|  | OFF* | 2-3, 5-6 | L192 | 4 | 2NT1-4 | 12NT1-4 | 2NT91-4 |
|  | 1-2, 4-5* | OFF | L192 | 4 | 2NT1-6 | 12NT1-6 | 2NT91-6 |
|  | 1-2, 4-5* | 2-3, 5-6 | L192 | 4 | 2NT1-8 | 12NT1-8 | 2NT91-8 |
| 4 | OFF | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-2 | 14NT1-2 | 4NT91-2 |
|  | 1-2, 4-5, 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-3 | 14NT1-3 | 4NT91-3 |
|  | OFF* | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | 4NT1-4 | 14NT1-4 | 4NT91-4 |
|  | 1-2, 4-5, 7-8, 10-11* | OFF | L192 | 6 | 4NT1-6 | 14NT1-6 | 4NT91-6 |
|  | 1-2, 4-5, 7-8, 10-11* | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | 4NT1-8 | 14NT1-8 | 4NT91-8 |

* These positions are momentary. All others are maintained.

NT 2-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE

| No. of Poles | Circuits Made with Toggle At: |  | UL Rating Code | Elect. Rating Code | Standard Lever <br> Screw |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Keyway Position | Opposite Keyway |  |  |  |
| 1 | OFF | 2-3 | L191 | 1 | 61NT1-2 |
|  | 1-2 | 2-3 | L191 | 1 | 61NT1-3 |
|  | 1-2* | OFF | L192 | 2 | 61NT1-6 |
|  | 1-2* | 2-3 | L192 | 2 | 61NT1-8 |
| 2 | OFF | 2-3, 5-6 | L191 | 3 | 62NT1-2 |
|  | 1-2, 4-5 | 2-3, 5-6 | L191 | 3 | 62NT1-3 |
|  | 1-2, 4-5* | OFF | L192 | 4 | 62NT1-6 |
|  | 1-2, 4-5* | 2-3, 5-6 | L192 | 4 | 62NT1-8 |

[^0]
## NT 3-POSITION ORDER GUIDE

| No. of Poles | Circuits Made with Toggle At: |  |  | $\begin{gathered} \text { UL } \\ \text { Rating } \end{gathered}$Code | Elect. Rating Code | Standard Lever Termination Style |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Keyway Position | Center Position | Opposite Keyway |  |  | Screw | Solder | Q-C |
| 1 | 1-2 | OFF | 2-3 | L191 | 1 | 1NT1-1 | 11NT1-1 | 1NT91-1 |
|  | 1-2* | OFF | 2-3 | L192 | 2 | 1NT1-5 | 11NT1-5 | 1NT91-5 |
|  | 1-2* | OFF | 2-3* | L192 | 2 | 1NT1-7 | 11NT1-7 | 1NT91-7 |
|  | NONE** | OFF | 2-3 | L191 | 1 | 1NT1-21 | 11NT1-21 | 1NT91-21 |
|  | NONE** | 1-2 | 2-3 | L191 | 1 | 1NT1-31 | 11NT1-31 | 1NT91-31 |
|  | NONE** | 1-2 | 2-3* | L192 | 2 | 1NT1-51 | 11NT1-51 | 1NT91-51 |
|  | 1-2* | OFF | NONE** | L192 | 2 | 1NT1-61 | 11NT1-61 | 1NT91-61 |
| 2 | 1-2, 4-5 | OFF | 2-3, 5-6 | L191 | 3 | 2NT1-1 | 12NT1-1 | 2NT91-1 |
|  | 1-2, 4-5* | OFF | 2-3, 5-6 | L192 | 4 | 2NT1-5 | 12NT1-5 | 2NT91-5 |
|  | 1-2, 4-5 | OFF | 2-3, 5-6* | L192 | 4 | 2NT1-7 | 12NT1-7 | 2NT91-7 |
|  | NONE* | OFF | 2-3, 5-6 | L191 | 3 | 2NT1-21 | 12NT1-21 | 2NT91-21 |
|  | NONE** | 1-2, 4-5 | 2-3, 5-6 | L191 | 3 | 2NT1-31 | 12NT1-31 | 2NT91-31 |
|  | NONE** | 1-2, 4-5 | 2-3, 5-6* | L192 | 4 | 2NT1-51 | 12NT1-51 | 2NT91-51 |
|  | 1-2, 4-5* | OFF | NONE** | L192 | 4 | 2NT1-61 | 12NT1-61 | 2NT91-61 |
|  | 1-2, 4-5 | 2-3, 4-5 | 2-3, 5-6 | L191 | 3 | 2NT1-12 | 12NT1-12 | 2NT91-12 |
|  | 1-2, 4-5 | 1-2, 5-6 | 2-3, 5-6 | L191 | 3 | 2NT1-10 | 12NT1-10 | 2NT91-10 |
|  | 1-2, 4-5* | 1-2, 5-6 | 2-3, 5-6 | L192 | 4 | 2NT1-50 | 12NT1-50 | 2NT91-50 |
|  | 1-2, 4-5 | 1-2, 5-6 | 2-3, 5-6* | L192 | 4 | 2NT1-70 | 12NT1-70 | 2NT91-70 |
| 4 | 1-2, 4-5, 7-8, 10-11 | OFF | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-1 | 14NT1-1 | 4NT91-1 |
|  | 1-2, 4-5, 7-8, 10-11* | OFF | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | 4NT1-5 | 14NT1-5 | 4NT91-5 |
|  | 1-2, 4-5, 7-8, 10-11* | OFF | 2-3, 5-6, 8-9, 11-12* | L192 | 6 | 4NT1-7 | 14NT1-7 | 4NT91-7 |
|  | NONE* | OFF | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-21 | 14NT1-21 | 4NT91-21 |
|  | NONE** | 1-2, 4-5, 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-31 | 14NT1-31 | 4NT91-31 |
|  | NONE** | 1-2, 4-5, 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12* | L192 | 6 | 4NT1-51 | 14NT1-51 | 4NT91-51 |
|  | 1-2, 4-5, 7-8, 10-11* | OFF | NONE** | L192 | 6 | 4NT1-61 | 14NT1-61 | 4NT91-61 |
|  | 1-2, 4-5, 7-8, 10-11 | 2-3, 4-5, 7-8, 11-12 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-12 | 14NT1-12 | 4NT91-12 |
|  | 1-2, 4-5, 7-8, 10-11 | 2-3, 4-5 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4NT1-10 | 14NT1-10 | 4NT91-10 |
|  | 1-2, 4-5, 7-8, 10-11* | 2-3, 4-5, 7-8, 11-12 | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | 4NT1-50 | 14NT1-50 | 4NT91-50 |
|  | 1-2, 4-5, 7-8, 10-11* | 2-3, 4-5 | 2-3, 5-6, 8-9, 11-12* | L192 | 6 | 4NT1-70 | 14NT1-70 | 4NT91-70 |

* These positions are momentary. All others are maintained
** Toggle lever is blocked from these products. Toggle becomes 2-position, with center being one extreme position.
NT 3-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE

| No. of Poles | Circuits Made with Toggle At: |  |  | UL Rating Code | Elect. Rating Code | Termination <br> Screw |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Keyway Position | Center Position | Opposite Keyway |  |  |  |
| 1 | 1-2 | OFF | 2-3 | L191 | 1 | 61NT1-1 |
|  | 1-2* | OFF | 2-3* | L192 | 2 | 61NT1-7 |
| 2 | 1-2, 4-5 | OFF | 2-3, 5-6 | L191 | 3 | 62NT1-1 |
|  | 1-2, 4-5 | OFF | 2-3, 5-6* | L192 | 4 | 62NT1-7 |

[^1]
## Manual Switches

Sealed Toggle Switches

## MOUNTING DIMENSIONS

For reference only mm/in


## WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.
Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

NT Series/Step Base

## Panel cutout



With locking ring


Without locking ring

Note:
(0) 1,4/.06 MIN DEEP TO ACCOMMODATE LOCKING RING. 15PA87 PANEL SEAL REQUIRES BLIND HOLE TO INSURE SEAL INTEGRITY

Terminal Circuit Identification


While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.
For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

1-800-537-6945 USA
1-800-737-3360 Canada
1-815-235-6847 International
FAX
1-815-235-6545 USA
INTERNET
www.honeywell.com/sensing
info.sc@honeywell.com


[^0]:    * These positions are momentary. All others are maintained.

[^1]:    * These positions are momentary. All others are maintained.

