Honeywell



MICRO SWITCH™ NT Series

Step Base Toggle Switch

DESCRIPTION

Honeywell MICRO SWITCH[™] NT Series toggle switches meet the need for a rugged, cost-effective 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, hose downs, or outdoor environments. Complete sealing of the switching chamber enables NT toggles to comply with UL 508, paragraph 13.3 hose down 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.

FEATURES

- Completely sealed switching chamber
- IP67/IP68
- NEMA 3, 3R, 4, 13
- 2- or 3-position maintained and momentary action
- Step-design case provides added space between terminals to prevent shorting
- 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

POTENTIAL APPLICATIONS

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

SPECIFICATIONS

Characteristic	Parameter
Description	Industrial-grade toggle switch
Sealing	IP67/IP68; NEMA 3, 3R, 4, and 13
Operating temperature	-40 °C to 71 °C [-40 °F to 160 °F]
Actuators	Standard, locking, special design, tab
Action	2- or 3- position; momentary and maintained
Mounting	Bushing 15/32 in
Circuitry	SPST, SPDT, DPST, DPDT, 4PST, 4PDT
Terminations	Solder, screw, quick connect
Contacts	Silver alloy
Amp rating	Up to 20 A (resistive)
Approvals	UL, CSA, CE
Measurement	26,7 mm H x 33,5 mm W x 22,6 mm D [1.05 in H x 1.32 in W x 0.89 in D]

UL AND CSA ELECTRICAL RATINGS

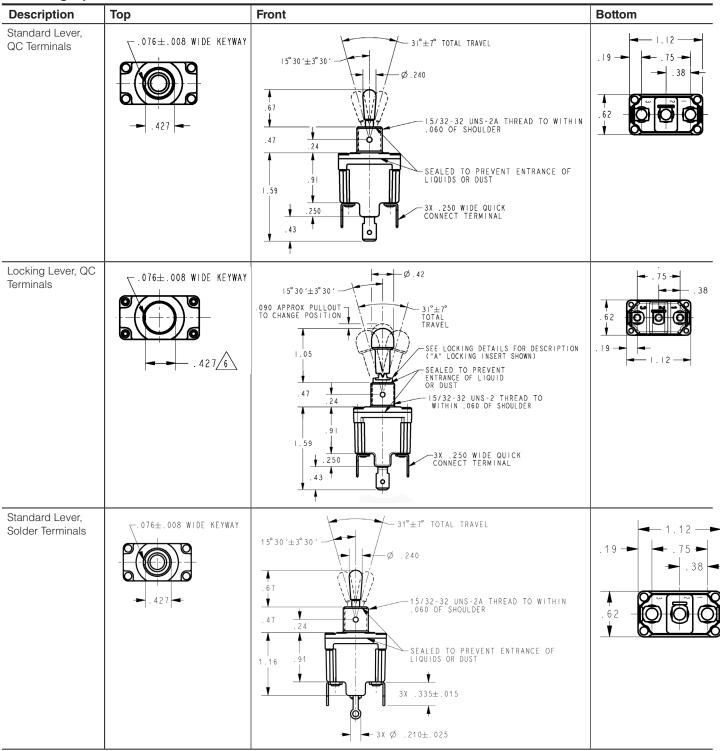
Rating Code	Electrical rating
L192	10 amps, 125, 250, 277 Vac; 1/4 Hp, 125 Vac; 1/2 Hp, 250, 277 Vac; 3 amps, 125 Vac "L"
L191	15 amps, 125, 250, 277 Vac; ½ Hp, 125 Vac; 1 Hp, 250, 277 Vac; 5 amps, 125 Vac "L"

ELECTRICAL RATINGS

Electrical Rating Code	28 Vdc		115 Vdc	250 Vdc	6	115 Vac, 0 Hz & 400 I	Hz	230 Vac	
	Ind.	Res.	Lamp	Res.	Res.	Ind.	Res.	Lamp	Res
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

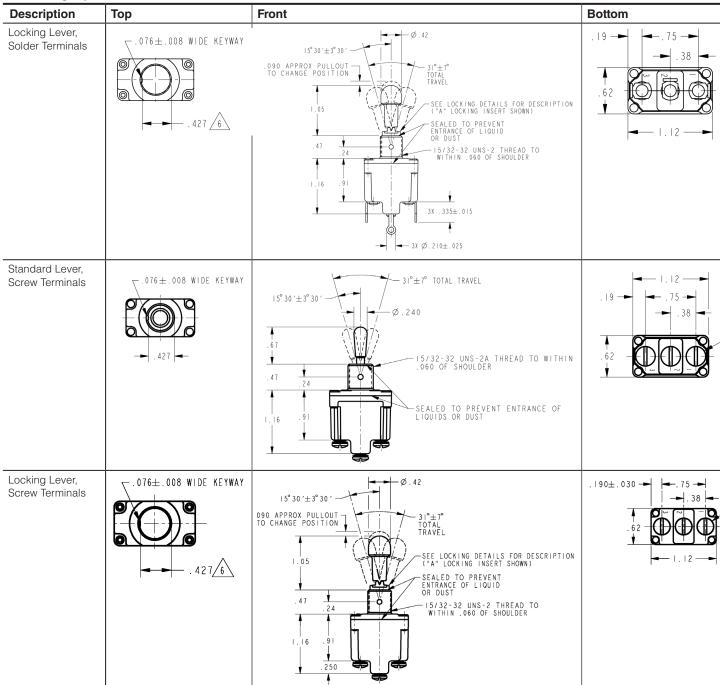
Step-Base Toggle Switch

STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS Note: Single pole NT switches shown



STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

Note: Single pole NT switches shown



Step-Base Toggle Switch

STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS Note: Single pole NT switches shown

Description	Тор	Front	Bottom
Standard Lever Panel Stand-off Feature Screw Terminals	. 427 -	31°±1° TOTAL TRAVEL 15°30′±3°30′ PANEL .67 SEAL .91 .91 .91 .91 .91 .91 .91 .91	

NT 2-POSITION ORDER GUIDE

	Circuits	Made with Toggle A	t:		Catalog	Listing (Stan	dard Lever)	
No. of poles	Keyway Position	Opposite Keyway	UL Rating Code	Elect. Rat- ing Code	Screw	Solder	Q-C	Pull-To-Unlock Lever (Add suffix to Standard Lever Listing)
1	OFF	2-3	L191	1	1NT1-2	11NT1-2	1NT91-2	D, F, G
	1-2	2-3	L191	1	1NT1-3	11NT1-3	1NT91-3	D, F, G
	OFF*	2-3	L192	2	1NT1-4	11NT1-4	1NT91-4	F
	1-2*	OFF	L192	2	1NT1-6	11NT1-6	1NT91-6	F
	1-2*	2-3	L192	2	1NT1-8	11NT1-8	1NT91-8	F
2	OFF	2-3, 5-6	L191	3	2NT1-2	12NT1-2	2NT91-2	D, F, G
	1-2, 4-5	2-3, 5-6	L191	3	2NT1-3	12NT1-3	2NT91-3	F
	OFF*	2-3, 5-6	L192	4	2NT1-4	12NT1-4	2NT91-4	F
	1-2, 4-5*	OFF	L192	4	2NT1-6	12NT1-6	2NT91-6	D, F, G
	1-2, 4-5*	2-3, 5-6	L192	4	2NT1-8	12NT1-8	2NT91-8	F
4	OFF	2-3, 5-6, 8-9, 11-12	L191	5	4NT1-2	14NT1-2	4NT91-2	D, F, G
	1-2, 4-5, 7-8, 10-11	2-3, 5-6, 8-9, 11-12	L191	5	4NT1-3	14NT1-3	4NT91-3	F
	OFF*	2-3, 5-6, 8-9, 11-12	L192	6	4NT1-4	14NT1-4	4NT91-4	F
	1-2, 4-5, 7-8, 10-11*	OFF	L192	6	4NT1-6	14NT1-6	4NT91-6	D, F, G
	1-2, 4-5, 7-8, 10-11*	2-3, 5-6, 8-9, 11-12	L192	6	4NT1-8	14NT1-8	4NT91-8	F

* These positions are momentary. All others are maintained.

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

	Cir	cuits Made with Toggl				
No. of poles	Keyway Position	Opposite Keyway UL Rating Code		Elect. Rating Code	Catalog Listing Screw	
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	

*These positions are momentary. All others are maintained.

NT 3-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE

	Circ	uits Made with Togg				
No. of poles	Keyway Position	Center Position	Opposite Keyway	UL Rating Code	Elect. Rating Code	Catalog Listing Screw
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

* These positions are momentary. All others are maintained.

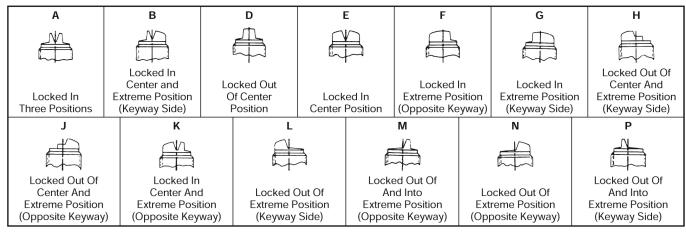
Step-Base Toggle Switch

NT 3-POSITION ORDER GUIDE

	Circu	its Made with Tog	gle At:			Catalog Listing			1
No. of poles	Keyway Position	Center Position	Opposite Keyway	UL Rat- ing Code	- Rat- ing	Screw	Solder	Q-C	Pull-To- Unlock Lever (Add suffix to Standard Le- ver Listing)
1	1-2	OFF	2-3	L191	1	1NT1-1	11NT1-1	1NT91-1	ALL TYPES
	1-2*	OFF	2-3	L192	2	1NT1-5	11NT1-5	1NT91-5	E, F, K, L, M, N
	1-2*	OFF	2-3*	L192	2	1NT1-7	11NT1-7	1NT91-7	E, L, N
	NONE**	OFF	2-3	L191	1	1NT1-21	11NT1-21	1NT91-21	E, F, K, M
	NONE**	1-2	2-3	L191	1	1NT1-31	11NT1-31	1NT91-31	E, F, K, M
	NONE**	1-2	2-3*	L192	2	1NT1-51	11NT1-51	1NT91-51	E
	1-2*	OFF	NONE**	L192	2	1NT1-61	11NT1-61	1NT91-61	E
2	1-2, 4-5	OFF	2-3, 5-6	L191	3	2NT1-1	12NT1-1	2NT91-1	ALL TYPES
	1-2, 4-5*	OFF	2-3, 5-6	L192	4	2NT1-5	12NT1-5	2NT91-5	E, F, K, L, M, N
	1-2, 4-5	OFF	2-3, 5-6*	L192	4	2NT1-7	12NT1-7	2NT91-7	E, L, N
	NONE*	OFF	2-3, 5-6	L191	3	2NT1-21	12NT1-21	2NT91-21	E, F, K, M
	NONE**	1-2, 4-5	2-3, 5-6	L191	3	2NT1-31	12NT1-31	2NT91-31	E, F, K, M
	NONE**	1-2, 4-5	2-3, 5-6*	L192	4	2NT1-51	12NT1-51	2NT91-51	E
	1-2, 4-5*	OFF	NONE**	L192	4	2NT1-61	12NT1-61	2NT91-61	E
	1-2, 4-5	2-3, 4-5	2-3, 5-6	L191	3	2NT1-12	12NT1-12	2NT91-12	ALL TYPES
	1-2, 4-5	1-2, 5-6	2-3, 5-6	L191	3	2NT1-10	12NT1-10	2NT91-10	ALL TYPES
	1-2, 4-5*	1-2, 5-6	2-3, 5-6	L192	4	2NT1-50	12NT1-50	2NT91-50	E, F, K, L, M, N
	1-2, 4-5	1-2, 5-6	2-3, 5-6*	L192	4	2NT1-70	12NT1-70	2NT91-70	E, L, N
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	ALL TYPES
	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	E, F, K, L, M, N
	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	E, L, N
	NONE*	OFF	2-3, 5-6, 8-9, 11-12	L191	5	4NT1-21	14NT1-21	4NT91-21	E, F, K, M
	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	E, F, K, M
	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	E
	1-2, 4-5, 7-8, 10-11*	OFF	NONE**	L192	6	4NT1-61	14NT1-61	4NT91-61	E
	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	ALL TYPES
	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	ALL TYPES
	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	E, F, K, L, M, N
	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	E, L, N

* 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.

MICRO SWITCH NT™ SERIES LOCKING CONFIGURATIONS



This Honeywell datasheet supports the following MICRO SWITCH™ NT Series Toggle Switch (Step Base) Listings

11NT1-2 1 11NT1-3 1 11NT1-3G 1 11NT1-5 1 11NT1-6 1 11NT1-7 1 11NT1-7 1 11NT1-7 1 11NT1-7 1 11NT1-7 1 11NT1-7 1 12NT1-1 1 12NT1-2 1 12NT1-3 1 12NT1-7 1 12NT1-3 1 12NT1-7 1 14NT1-5 1 14NT1-6 1 14NT1-7 1 14NT1-7 1 14NT1-7 1 14NT1-7 1 14NT1-7 1 14NT1-1 1 1NT1-1 1 1NT1-1 1 1NT1-1 1 1NT1-1 1 1NT1-2 1 1NT1-2 1 1NT1-2 1 1NT1-2 1 1NT1-2 1 1NT1-2	INT1-3-C INT1-3D INT1-3F INT1-3-JLG INT1-3-NH INT1-3-NH-ALT INT1-3-NH-ALT INT1-3-TM INT1-5 INT1-51 INT1-51 INT1-5-C INT1-5-C INT1-5-TM INT1-5-TM INT1-61-JLG INT1-61-JLG INT1-61-JLG INT1-6F INT1-6-TM INT1-6-TM INT1-7-C INT1-7-C INT1-7-C INT1-7-C INT1-7-C INT1-7-SKY INT1-7-SKY INT1-7-SKY INT1-7-TM INT1-8 INT1-8-C INT1-8-NH INT1-8-NH INT1-8-TM INT1-8-TM INT1-8-TM INT1-8-TM INT1-8-TM INT231-7 INT887-1 INT887-1 INT887-1	1NT887-21K 1NT887-3 1NT887-5 1NT887-6 1NT887-7 1NT887-7E 1NT887-8 1NT91-1 1NT91-1 1NT91-1 1NT91-2 1NT91-3 1NT91-3 1NT91-5 1NT91-5 1NT91-6 1NT91-6 1NT91-6 1NT91-6 1NT91-7 2NT101-7 2NT101-7 2NT101-7 2NT1-10 2NT1-10 2NT1-10 2NT1-10 2NT1-12 2NT1-12 2NT1-12 2NT1-12 2NT1-12 2NT1-1L 2NT1-1L 2NT1-1NH 2NT1-1-NH 2NT1-2 2NT1-21 2NT1-2C 2NT1-2C 2NT1-2G 2NT1-3	2NT1-31 2NT1-3-C 2NT1-3D 2NT1-3-JLG 2NT1-3-NH 2NT1-3-NH-ALT 2NT1-4 2NT1-5 2NT1-50 2NT1-50F 2NT1-50F 2NT1-50-NH-ALT 2NT1-51 2NT1-51 2NT1-51 2NT1-5-TM 2NT1-6 2NT1-61 2NT1-61 2NT1-61 2NT1-61 2NT1-61 2NT1-7 2NT1-70 2NT1-70 2NT1-70-C 2NT1-70-C 2NT1-70-C 2NT1-72 2NT1-7-NH 2NT1-72 2NT1-7-NH 2NT1-72 2NT1-7-NH 2NT1-7-NH 2NT1-7-NH 2NT1-7-NH 2NT1-7-NH 2NT1-7-NH 2NT1-8-C 2NT1-8-C 2NT1-8-NH 2NT1-8-NH 2NT1-8-NH 2NT1-8-NH-ALT 2NT231-7 2NT887-10 2NT889-70 2NT91-1	2NT91-10 2NT91-1A 2NT91-2 2NT91-3 2NT91-3D 2NT91-50 2NT91-50 2NT91-50K 2NT91-6 2NT91-7 2NT91-7 2NT91-7 2NT91-70 2NT91-7-NH 2NT91-8 4NT1-1 4NT1-10 4NT1-10 4NT1-10 4NT1-10 4NT1-12 4NT1-12 4NT1-12 4NT1-12 4NT1-12 4NT1-12 4NT1-12 4NT1-12 4NT1-5 4NT1-5 4NT1-5 4NT1-50 4NT1-5 4NT1-50 4NT1-6 4NT1-7 4NT1-7 4NT1-7 4NT1-70 4NT1-72 4NT1-7 4NT1-72 4NT1-8 4NT207-1E 4NT319-7-C08 4NT91-3 4NT91-5 4NT91-5	4NT91-70 611NT1-7 61NT1-1 61NT1-1-NH 61NT1-2 61NT1-3 61NT1-3-A04 61NT1-3-A04 61NT1-5 61NT1-6 61NT1-6 61NT1-6 61NT1-7 61NT1-7-NH 61NT887-1 61NT887-3 61NT887-3 61NT887-5 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-7 61NT887-8 61NT91-2 62NT1-1 62NT1-1 62NT1-1 62NT1-2 62NT1-3 62NT1-3-NH 62NT1-7 62NT1-7 62NT1-7 62NT1-7 62NT1-7 62NT1-7 62NT1-7 62NT1-8 62NT1-8 62NT1-8 62NT1-8 62NT1-1-NH
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Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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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.

MISUSE OF DOCUMENTATION

- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- 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.

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.

Find out more

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