Sealed Rocker Switches



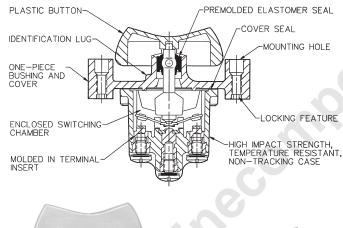


GENERAL INFORMATION

MICRO SWITCH NR Series Rocker Switches meet severe environment application needs for a rugged, cost-effective manual switch. They combine the advantages of toggle switch circuit versatility with pushbutton control.

Quality construction features include a premolded elastomer seal between the actuator and bushing and an elastomer cover/case gasket seal. Also, the terminal inserts are molded into the high impact strength thermoplastic case.

Complete sealing of the switching chamber enables compliance with UL 508, paragraph 13.3 hosedown test. These switches can be used where panels are subjected to periodic splash and washdowns, such as are common to food and beverage equipment. They will also withstand exposure to heavy accumulations of eary morning dew that may condense on the control panel in cabs of vehicles left outdoors overnight.





Above Panel Mount

ELECTRICAL RATINGS

12PA ROCKER ORDER GUIDE Note: These listings are used to specify rockers only.

Rocker	Catalog
Color	Listing
White	12PA12-W
Red	12PA12-R
Yellow	12PA12-Y
Black	12PA12-BK
Green Blue	12PA12-BK 12PA12-G 12PA12-BL

Flush Panel Mount

FEATURES

- Completely sealed switching chamber
- Colored removable rockers
- Choice of flush-panel or above-panel mounting
- Step-design case provides added space between terminals to help prevent shorting
- 1, 2 or 4-pole circuitry
- 2 or 3 positions, maintained and momentary action
- Spring-loaded actuating mechanism provides excellent tactile feedback
- High impact strength, non-tracking case enhances electrical stability
- Temperature range: −40 to 71°C (-40 to 160°F)
- UL recognized, File E12252, Vol. 1, Section 44
- CSA certified, File LR4442
- CE approved

HOW TO ORDER

- 1. To order flush panel mount switches without rockers, specify the listings in the NR order guides.
- 2. To specify above-panel mount switches, change the 1 (after "NR") in 1NR1, 11NR1, 2NR1, 12NR1, 4NR1, and 14NR1 listings in the NR order guides to 4. Example: 1NR1-2W converts to 1NR4-2, 11NR1-2 to 11NR4-2.

For 1NR91, 2NR91, and 14NR91 listings add 4 (after the "NR") to specify the above panel mount version. Example: 1NR91-2 becomes 1NR491-2.

3. To order rockers, specify listings in the 12PA rocker order guide.

ELECTRICAL RATINGS

L191: 15 amps, 125, 250, 277 VAC; 1/2 Hp, 125 VAC; 1 Hp, 250, 277 VAC; 5 amps, 125 VAC "L"

L192: 10 amps, 125, 250, 277 VAC; 1/4 Hp, 125 VAC; ½ Hp, 250, 277 VAC;

3 amps, 125 VAC "L"

In Amperes (See Application Note on next page)

Elect. Rating	28 Volts DC		115 VDC	250 VDC		15 Volts 0 & 400	-	230 VAC	
Code	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
5	12	20	5	0.75	0.5	15	15	4	6
6	10	18	4	0.75	0.5	8	11	2	6



Sealed Rocker Switches

NOTE: Catalog listings in the order guides below do not include rocker operators. See "How to Order."

Application Note: Honeywell MICRO SWITCH does not recommend the use of silver cadmium oxide switch contacts in non-arcing loads. Non-arcing loads are generally loads less than 12 volts and/or 0.5 amp. NR switches use silver cadmium oxide contacts. For other options, contact the MICRO SWITCH Application Center at 1-800-537-6945.

NR 2-POSITION FLUSH-PANEL MOUNT ROCKERS ORDER GUIDE

	Circuits Made With F	locker At:					
No. of	Ident. Lug	Opposite Lug	UL Rating	Elect. Rating	Termination St	yle	
Poles	Position	Position	Code	Code	Screw	Solder	Q-C
	OFF	2-3	L191	1	1NR1-2	11NR1-2	1NR91-2
1	1-2	2-3	L191	1	1NR1-3	11NR1-3	1NR91-3
	OFF*	2-3	L192	2	1NR1-4	11NR1-4	1NR91-4
	1-2*	OFF	L192	2	1NR1-6	11NR1-6	1NR91-6
	1-2*	2-3	L192	2	1NR1-8	11NR1-8	1NR91-8
	OFF	2-3, 5-6	L191	3	2NR1-2	12NR1-2	2NR91-2
2	1-2, 4-5	2-3, 5-6	L191	3	2NR1-3	12NR1-3	2NR91-3
	OFF*	2-3, 4-6	L192	4	2NR1-4	12NR1-4	2NR91-4
	1-2, 4-5*	OFF	L192	4	2NR1-6	12NR1-6	2NR91-6
	1-2, 4-5*	2-3, 4-6	L192	4	2NR1-8	12NR1-8	2NR91-8
	OFF	2-3, 5-6, 8-9, 11-12	L191	5	4NR1-2	14NR1-2	4NR91-2
4	1-2, 4-5, 7-8, 10-11	2-3, 5-6, 8-9, 11-12	L191	5	4NR1-3	14NR1-3	4NR91-3
	OFF*	2-3, 5-6, 8-9, 11-12	L192	6	4NR1-4	14NR1-4	4NR91-4
	1-2, 4-5, 7-8, 10-11*	OFF	L192	6	4NR1-6	14NR1-6	4NR91-6
	1-2, 4-5, 7-8, 10-11*	2-3, 5-6, 8-9, 11-12	L192	6	4NR1-8	14NR1-8	4NR91-8

NR 3-POSITION FLUSH-PANEL MOUNT ROCKERS ORDER GUIDE

	Circuits Made With	Toggle At:						
No. of Poles	Ident. Lug Position	Center Positon	Opposite Lug Position	UL Rating Code	Elect. Rating Code	Termination Screw	n Style Solder	Q-C
1	1-2 1-2* 1-2* NONE** NONE** NONE** 1-2*	OFF OFF OFF 1-2 1-2 OFF	2-3 2-3 2-3* 2-3 2-3 NONE**	L191 L192 L192 L191 L191 L192 L192	1 2 2 1 1 2 2	1NR1-1 1NR1-5 1NR1-7 1NR1-21 1NR1-31 1NR1-51 1NR1-61	11NR1-1 11NR1-5 11NR1-7 11NR1-21 11NR1-31 11NR1-51 11NR1-61	1NR91-1 1NR91-5 1NR91-7 1NR91-21 1NR91-31 1NR91-51 1NR91-61
2	1-2, 4-5 1-2, 4-5* 1-2, 4-5* NONE* NONE** NONE** 1-2, 4-5* 1-2, 4-5* 1-2, 4-5*	OFF OFF OFF 1-2, 4-5 1-2, 4-5 OFF 2-3, 4-5 1-2, 5-6 1-2, 5-6	2-3, 5-6 2-3, 5-6* 2-3, 5-6* 2-3, 5-6 2-3, 5-6 2-3, 5-6* NONE** 2-3, 5-6 2-3, 5-6*	L191 L192 L192 L191 L191 L192 L192 L192	3 4 4 3 3 4 4 3 4 4	2NR1-1 2NR1-5 2NR1-7 2NR1-21 2NR1-31 2NR1-51 2NR1-61 2NR1-12 2NR1-50 2NR1-70	12NR1-1 12NR1-5 12NR1-7 12NR1-21 12NR1-31 12NR1-51 12NR1-61 12NR1-12 12NR1-50 12NR1-70	2NR91-1 2NR91-5 2NR91-7 2NR91-21 2NR91-31 2NR91-51 2NR91-61 2NR91-12 2NR91-50 2NR91-70
4	1-2, 4-5, 7-8, 10-11 1-2, 4-5, 7-8, 10-11* 1-2, 4-5, 7-8, 10-11* NONE* NONE** NONE** 1-2, 4-5, 7-8, 10-11* 1-2, 4-5, 7-8, 10-11* 1-2, 4-5, 7-8, 10-11*	OFF OFF OFF OFF 1-2, 4-5, 7-8, 10-11 1-2, 4-5, 7-8, 10-11 OFF 2-3, 4-5, 7-8, 11-12 2-3, 4-5, 7-8, 11-12 2-3, 4-5	2-3, 5-6, 8-9, 11-12 2-3, 5-6, 8-9, 11-12 2-3, 5-6, 8-9, 11-12* 2-3, 5-6, 8-9, 11-12 2-3, 5-6, 8-9, 11-12 NONE** 2-3, 5-6, 8-9, 11-12 2-3, 5-6, 8-9, 11-12 2-3, 5-6, 8-9, 11-12	L191 L192 L192 L191 L191 L192 L192 L192	5665566566	4NR1-1 4NR1-5 4NR1-7 4NR1-21 4NR1-31 4NR1-51 4NR1-61 4NR1-12 4NR1-50 4NR1-70	14NR1-1 14NR1-5 14NR1-7 14NR1-21 14NR1-31 14NR1-51 14NR1-61 14NR1-12 14NR1-50 14NR1-70	4NR91-1 4NR91-5 4NR91-7 4NR91-21 4NR91-31 4NR91-51 4NR91-61 4NR91-12 4NR91-50 4NR91-70

TERMINAL CIRCUIT IDENTIFICATION

Terminal identification numbers referenced in the order guides are molded into the switch base.

These numbers indicate which circuits are made in each rocker position (e.g. "1-2" refers to circuit closure through terminals 1 and 2).

^{*} 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.

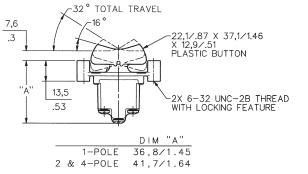
Seated Rocker Switches

MOUNTING DIMENSIONS

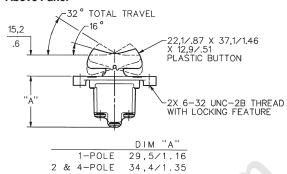
(For reference only)

0,0 = mmKey: 0.00 = inches

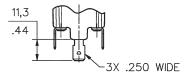
Flush Panel



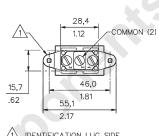
Above Panel

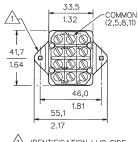


Quick Connect Terminals



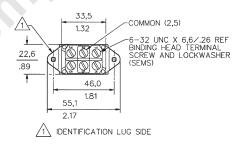
Terminal Circuit Identification









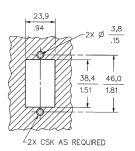


Panel Cutout

.19

Solder Terminals

10,9



Flange mounting torque is 10-12 in./lbs. Terminal screw mounting torque is 5 in./lbs. max.



Flat Base Sealed Toggles and Rockers



UL AND CSA ELECTRICAL RATINGS

Rating Code*	Electrical Rating
L192	10 amps, 125, 250, 277 VAC; ½ Hp, 125 VAC; ½ 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

In Amperes

Rating	2	28 Volts D		115 VDC	250 VDC		15 Volts 0 & 400	_	230 VAC
Code	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

Application Note: Honeywell MICRO SWITCH does *not* recommend the use of silver cadmium oxide switch contacts in non-arcing loads. Non-arcing loads are generally loads less than 12 volts and/or 0.5 amp. NT/NR switches use silver cadmium oxide contacts. For other options, contact the MICRO SWITCH Application Center at 1-800-537-6945.

FEATURES

- Sealed switching chamber
- 1 or 2-pole circuitry
- 2 or 3 position maintained and momentary action
- Flat base with quick-connect terminals – mating connectors are available
- Brightly colored removable rockers
- Spring-loaded actuating mechanism provides tactile feedback
- High impact strength, non-tracking case enhances electrical stability
- Temperature range: -40 to 71°C (-40 to 160°F)
- UL Recognized, File E12252, vol. 1, section 44
- CSA Certified, File LR4442
- CE approved

GENERAL INFORMATION

MICRO SWITCH NT Series toggle switches and NR Series rocker switches are designed to meet severe environment application needs for rugged, cost-effective manual switches. These flat base style products are identical to the stepped base style in construction and features. The flat base allows for PC board or connector use for easy wiring/connection. The flat base NT toggle switches and NR rocker switches are provided with quick-connect (spade) termination. Mating connectors are available.

TERMINAL CIRCUIT IDENTIFICATION

Terminal identifications are referenced in the order guides to indicate which circuits are made in each toggle position (e.g. "1-2" refers to circuit closure through terminals 1 and 2).

Flat Base Sealed Toggles

NT 2-POSITION ORDER GUIDE

	Circuits Made At:				Catalog
No. of	Keyway	Opposite	UL Rating	Electrical	Listing
Poles	Position	Keyway	Code	Rating Code	Toggle Q-C
1	OFF	2-3	L191	1	31NT91-2
	1-2	2-3	L191	1	31NT91-3
	OFF**	2-3	L192	2	31NT91-4
	1-2**	OFF	L192	2	31NT91-6
	1-2**	2-3	L192	2	31NT91-8
2	OFF	2-3, 5-6	L191	3	32NT91-2
	1-2, 4-5	2-3, 5-6	L191	3	32NT91-3
	OFF**	2-3, 4-6	L192	4	32NT91-4
	1-2, 4-5**	OFF	L192	4	32NT91-6
	1-2, 4-5**	2-3, 4-6	L192	4	32NT91-8

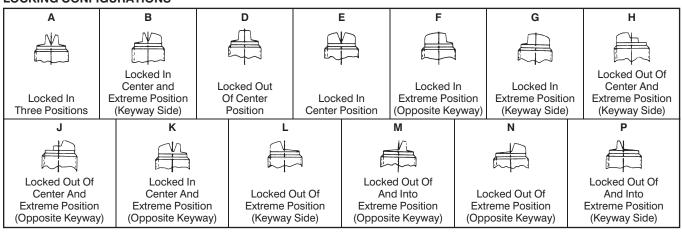
NT 3-POSITION ORDER GUIDE

	Circuits Ma	de At:			Electrical	Catalog	
No. of Poles	Keyway Position	Center Position	Opposite Keyway	UL Rating Code	Rating Code	Listing Toggle Q-C	
	1-2	OFF	2-3	L191	1	31NT91-1	
1	1-2**	OFF	2-3	L192	2	31NT91-5	. 60*
	1-2**	OFF	2-3**	L192	2	31NT91-7	
	NONE***	OFF	2-3	L191	1	31NT91-21	
	NONE***	1-2	2-3	L191	1	31NT91-31	
	NONE***	1-2	2-3**	L192	2	31NT91-51	
	1-2**	OFF	NONE***	L192	2	31NT91-61	
	1-2, 4-5	OFF	2-3, 5-6	L191	3	32NT91-1	
2	1-2, 4-5**	OFF	2-3, 5-6	L192	4	32NT91-5	
	1-2, 4-5**	OFF	2-3, 5-6**	L192	4	32NT91-7	
	NONE***	OFF	2-3, 5-6	L191	3	32NT91-21	
	NONE***	1-2, 4-5	2-3, 5-6	L191	3	32NT91-31	
	NONE***	1-2, 4-5	2-3, 5-6**	L192	4	32NT91-51	
	1-2, 4-5**	OFF	NONE***	L192	4	32NT91-61	
	1-2, 4-5	2-3, 4-5	2-3, 5-6	L191	3	32NT91-12	
	1-2, 4-5	1-2, 5-6	2-3, 5-6	L191	3	32NT91-10	
	1-2, 4-5**	1-2, 5-6	2-3, 5-6	L192	4	32NT91-50	
	1-2, 4-5**	1-2, 5-6	2-3, 5-6**	L192	4	32NT91-70	

MATING CONNECTORS ORDER GUIDE

Description	Catalog Listing
2-pole connector	19PA168-NT
1-pole connector, same package size as 2-pole connector	19PA169-NT

LOCKING CONFIGURATIONS



^{**} These positions are momentary. All others are maintained.
*** Toggle lever is blocked from these positions. Toggle becomes 2-position, with center being one extreme position.



Flat Base Sealed Rockers

NR 2-POSITION ORDER GUIDE

Circuits Made At:					Catalog
No. of	Keyway	Opposite	UL Rating	Electrical	Listing
Poles	Position	Keyway	Code	Rating Code	Rocker* Q-C
1	OFF	2-3	L191	1	31NT91-2
	1-2	2-3	L191	1	31NR91-3
	OFF**	2-3	L192	2	31NR91-4
	1-2**	OFF	L192	2	31NR91-6
	1-2**	2-3	L192	2	31NR91-8
2	OFF	2-3, 5-6	L191	3	32NR91-2
	1-2, 4-5	2-3, 5-6	L191	3	32NR91-3
	OFF**	2-3, 4-6	L192	4	32NR91-4
	1-2, 4-5**	OFF	L192	4	32NR91-6
	1-2, 4-5**	2-3, 4-6	L192	4	32NR91-8

NT 3-POSITION ORDER GUIDE

	Circuits Ma	de At:			Electrical	Catalog
No. of Poles	Keyway Position	Center Position	Opposite Keyway	UL Rating Code	Rating Code	Listing Rocker* Q-C
1	1-2 1-2** 1-2** NONE*** NONE*** NONE*** 1-2**	OFF OFF OFF 1-2 1-2 OFF	2-3 2-3 2-3** 2-3 2-3 2-3** NONE***	L191 L192 L192 L191 L191 L192 L192	1 2 2 1 1 2 2	31NR91-1 31NR91-5 31NR91-7 31NR91-21 31NR91-31 31NR91-51 31NR91-61
2	1-2, 4-5 1-2, 4-5** 1-2, 4-5** NONE*** NONE*** NONE*** 1-2, 4-5** 1-2, 4-5 1-2, 4-5** 1-2, 4-5**	OFF OFF OFF 1-2, 4-5 1-2, 4-5 OFF 2-3, 4-5 1-2, 5-6 1-2, 5-6 1-2, 5-6	2-3, 5-6 2-3, 5-6* 2-3, 5-6* 2-3, 5-6 2-3, 5-6 2-3, 5-6** NONE*** 2-3, 5-6 2-3, 5-6 2-3, 5-6*	L191 L192 L192 L191 L191 L192 L192 L192	3 4 4 3 3 4 4 4 3 3 4 4 4 4 3 3	32NR91-1 32NR91-5 32NR91-7 32NR91-21 32NR91-31 32NR91-51 32NR91-61 32NR91-12 32NR91-10 32NR91-50 32NR91-70

MATING CONNECTORS ORDER GUIDE

Description	Catalog Listing
2-pole connector	19PA168-NT
1-pole connector, same package size as 2-pole connector	19PA169-NT

ELECTRICAL RATING

L191: 15 amps, 125, 250, 277 VAC; ½ Hp, 125 VAC; 1 Hp, 250, 277 VAC; 5 amps, 125 VAC "L"

L192: 10 amps, 125, 250, 277 VAC; 1/4 Hp, 125 VAC; ½ Hp, 250, 277 VAC; 3 amps, 125 VAC "L"

TERMINAL CIRCUIT IDENTIFICATION

Terminal identifications are referenced in the order guides to indicate which circuits are made in each toggle position (e.g., "1-2" refers to circuit closure through terminals 1 and 2).

Top specify above-panel mount rockers: add 4 (after the "NR") to specify the above panel version. Example: 31NR91-5 becomes 31NR491-5.

ROCKER BUTTONS ORDER GUIDE

Rocker	Catalog
Color	Listing
White	12PA12-W
Red	12PA12-R
Yellow	12PA12-Y
Black Green	12PA12-BK 12PA12-G 12PA12-BL
	Color White Red Yellow Black

^{*} Does not include rocker button. Order separately from chart.

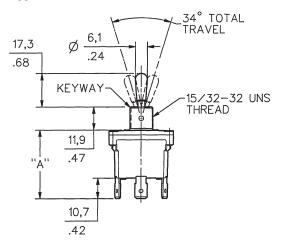
** These positions are momentary. All others are maintained.

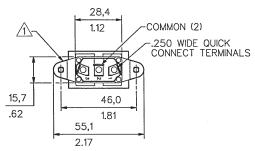
***Toggle lever is blocked from these positions. Toggle becomes 2-position, with center being one extreme

Flat Base Sealed Toggles and Rockers

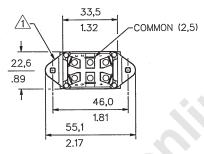
MOUNTING DIMENSIONS (For reference only)

Toggle Switches





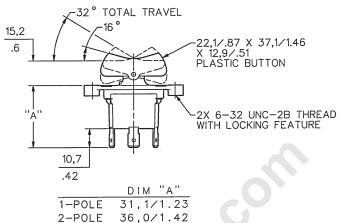
1 IDENTIFICATION LUG SIDE



1 IDENTIFICATION LUG SIDE

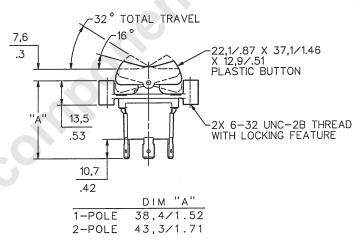
ABOVE PANEL

Rocker Switches, Above Panel



Rocker Switches, Flush Panel

FLUSH PANEL



Flange mounting torque is 10-12 in./lbs.

Bushing mounting torque is 10-15 in./lbs.

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LTILA6E-1S-WH-RC-FN12VXCR1 6-1571986-9 8007K26N324V52 8055K32Z7V 8055K52Z7V 8138K20E6M50 84206L 84312LX

PREDD5-07F-BB0GW 999-16716-002 999-16716-003 999-16716-004 A101J1V3Q004 A101J2ZQ004 A101J4ZQ004 A101J51CB0004

A103J1ZQ004 A201J1AQ004 A201J3ZB004 A201J50ZQ004 A203J51ZQ0004 A435S1YZQ H8500XBBBBL-A H8653VBBG2577W

HB130CHNWWNAAC R13112ABB-602W 1251.0303 AE205J60V3B004 1352.0107 1500G51E 1571099-3 1571987-4 1571987-5

1571989-7 1571988-5 B123J77V7B2 B226J50W4Q22P B433J37ZQ22M 160212E 1634200-7 1801.1164 1839.1502 PANEL-PLUG-VHP-BLACK PANEL-PLUG-VHP-WT K1ABBSCADN K2ABAAAAAA KG312A2DXD246X 250011E714 2600HM11E 2600R21E