OMRON[®] Thumbwheel Switch

A7AS

Easy-to-Assemble Thumbwheel Switch

- Dustproof construction ensures highly reliable performance at low voltage and very small current even under adverse environmental conditions
- Switch units can be assembled simply by fitting the integral hook coupler of each unit into the mating unit, thus eliminating the need of bolts and nuts for assembly



Ordering Information_____

SWITCH UNITS

	Part Number	
	Front mounting solder terminals	
Output Code	Light gray case	Black case
03 (decimal code)	A7AS-203	A7AS-203-1
06 (binary code)	A7AS-206	A7AS-206-1
(binary code w/+, – display)	A7AS-206-PM	A7AS-206-PM-1
07 (binary code w/diode provision)	A7AS-207	A7AS-207-1
19 (decimal code w/diode provision)	A7AS-219	A7AS-219-1
22 (compliment of BCD)	A7AS-222	A7AS-222-1

ACCESSORIES

		Part Number		
		For front mounting	For front mounting type switch assembly terminals	
Accessory		Light gray	Black	
End Cap		A7AS-M	A7AS-M-1	
Spacer		NRT-P	NRT-P□-1	
Connector	Solder terminal	NRT-C	NRT-C	
	PC terminal	NRT-CP	NRT-CP	

Note: 1. When placing your order, please specify the model numbers and quantities of required switch units, end caps, and spacers, respectively. (Note that switch units and accessories are not factory-assembled for shipment.)

2. Switch case, end cap, and spacer are made of polyacetal resin.

3. One of the following alphabetic codes must be filled into the boxed part of the model number to specify a legend to be hot stamped on the required spacer.

4. End caps come as a set -- left and right.

Code	Legend	Code	Legend
А	Hot stamp not required	Н	cm
В	SEC	J	m
С	MIN	К	°C
D	Н	L	PCS
Е	g	Q	x 10 SEC
F	kg	т	0
G	mm		U

Characteristics.

Switching capacity		1 mA to 0.1 A 50 VAC/28 VDC (resistive load)
Carry current		1 A (max.)
Contact resistance		200 mΩ max.
Insulation resistance		10 M Ω min. (at 500 VDC) between nonconnected terminals 1,000 M Ω min. (at 500 VDC) between each terminal and noncurrent-carrying part
Dielectric strength		600 VAC, 50/60 Hz for 1 minute between nonconnected terminals 1,000 VAC, 50/60 Hz for 1 minute between each terminal and noncurrent-carrying part
Operating force		400 g max.
Vibration		10 to 55 Hz, 1.5 mm double amplitude
Shock		500 m/s ² (approx. 50 G)
Ambient temperature Operating		-40° to 85°C
	Storage	-40° to 85°C
Humidity		85% RH max.
Service life	Mechanical	1,000,000 operations (steps) min.
	Electrical	50,000 operations (steps) min.
Weight (per unit)		Approx. 7.6 g

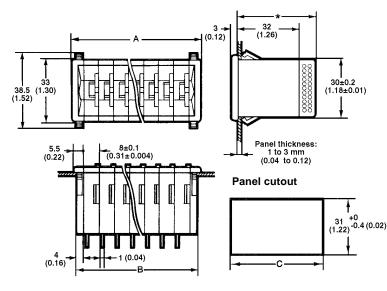
Note: Data shown are of initial value.

Dimensions.

Unit: mm (inch)

SWITCH UNITS

A7AS-203(-1), A7AS-206(-1) A7AS-207(-1), A7AS-219(-1) A7AS-222(-1)



No. of	А	В	С
units (n)	(8n + 11)	(8n + 8)	(B + 1)
1	19 (0.75)	16 (0.63)	17 (0.67)
2	27 (1.06)	24 (0.94)	25 (0.98)
3	35 (1.38)	32 (1.26)	33 (1.30)
4	43 (1.69)	40 (1.57)	41 (1.66)
5	51 ± 0.8	48 ± 0.8	49 (1.93)
	(2 ± 0.03)	(1.89 ± 0.03)	
6	59 ± 0.8	56 ± 0.8	57 (2.24)
	(2.32 ± 0.03)	(2.20 ± 0.03)	
7	67 ± 0.8	64 ± 0.8	65 (2.56)
	(2.64 ± 0.03)	(2.52 ± 0.03)	
8	75 ± 0.8	72 ± 0.8	73 (2.87)
	(2.95 ± 0.03)	(2.83 ± 0.03)	
9	83 ± 0.8	80 ± 0.8	81 (3.19)
	(3.27 ± 0.03)	(3.15)	
10	91 ± 0.8	88 ± 0.8	89 (3.50)
	(3.58 ± 0.03)	(3.46 ± 0.03)	

Note: Dimension * is 41.5 (1.63) for the switch with output code "03" or "06," and 53.5 (2.11) for the switch with output code "07" or "19."

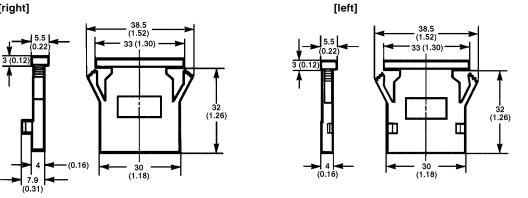
Note: 1. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.

2. Each model number applies to a single switch unit and not to the switch assembly as shown in the drawings.

END CAPS

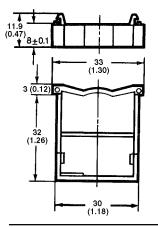
A7AS-M, A7AS-M-1

[right]

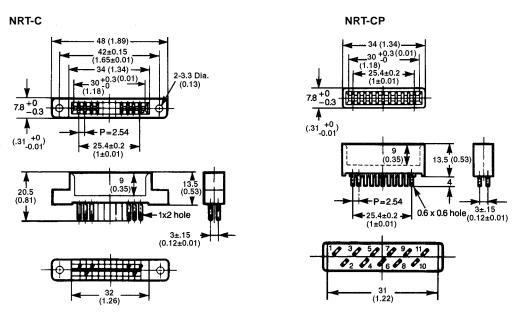


SPACERS

NRT-P□, NRT-P□-1



■ CONNECTORS



Note: 1. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.

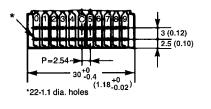
2. End caps are attached to each end of the switch assembly and used to secure the switch assembly to a mounting panel.

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Unit: mm (inch)

■ TERMINALS

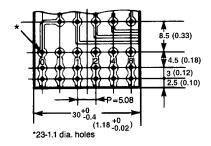
A7AS-203-□



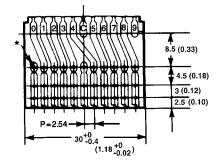
* P=5.08*10-1.1 dia. holes

A7AS-206-

A7AS-207-□



A7AS-219-



Hints on Correct Use____

Refer to HINTS ON CORRECT USE under the General Information section.



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