

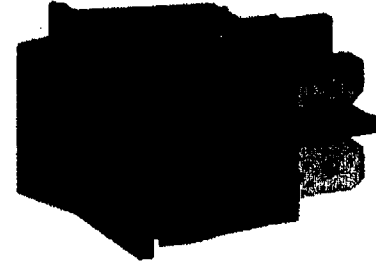
DPST-~~20~~

maintained on-off

## Non-Lighted and Lighted Rocker Switch

### Features

- Unique leaf spring mechanism suppresses heat generation to improve safety during long power application
- Original forcible separation ensures positive contact separation, under severe conditions
- Neon lamp allows switch to be directly applied with supply voltage
- Double-break contacts with gap of 3mm incorporated in nonflammable housing
- Abundant variations of rockers and flanges allowing selection of the type best suited to the equipment where mounted
- UL, CSA, and VDE approved



See page 323

### Ordering Information

| Classification | Nonlighted |           |           | Lighted (Neon lamps) |           |           |                |           |           |
|----------------|------------|-----------|-----------|----------------------|-----------|-----------|----------------|-----------|-----------|
|                |            |           |           | 100 to 125 VAC       |           |           | 200 to 240 VAC |           |           |
| Flange color   | White      | Black     | Gray      | White                | Black     | Gray      | White          | Black     | Gray      |
| Lever color    |            |           |           |                      |           |           |                |           |           |
| White          | A8A-201    | A8A-201-1 | A8A-201-2 | —                    | —         | —         | —              | —         | —         |
| Red            | A8A-202    | A8A-202-1 | A8A-202-2 | A8A-212              | A8A-212-1 | A8A-212-2 | A8A-222        | A8A-222-1 | A8A-222-2 |
| Green          | A8A-203    | A8A-203-1 | A8A-203-2 | A8A-213              | A8A-213-1 | A8A-213-2 | A8A-223        | A8A-223-1 | A8A-223-2 |
| Blue           | A8A-204    | A8A-204-1 | A8A-204-2 | —                    | —         | —         | —              | —         | —         |
| Yellow         | A8A-205    | A8A-205-1 | A8A-205-2 | —                    | —         | —         | —              | —         | —         |
| Orange         | —          | —         | —         | A8A-216              | A8A-216-1 | A8A-216-2 | A8A-226        | A8A-226-1 | A8A-226-2 |
| Black          | A8A-207    | A8A-207-1 | A8A-207-2 | —                    | —         | —         | —              | —         | —         |

### Specifications

#### Contact ratings

| Item          | Noninductive load (A) |           | Inductive load (A) |            | Inrush current |
|---------------|-----------------------|-----------|--------------------|------------|----------------|
|               | Resistive load        | Lamp load | Inductive load     | Motor load |                |
| Rated voltage |                       |           |                    |            |                |
| 125 VAC       | 16                    | 10        | 16                 | 16         | 100 A max.     |
| 250 VAC       | 16                    | 10        | 8                  | 16         |                |

- Note: 1. The values in this table indicate the steady-state currents.  
 2. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7msec max. (DC).  
 3. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.

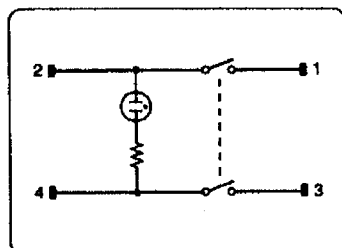
#### Neon lamp ratings

| Type     | Rated voltage (VAC) | Set current (mA) |
|----------|---------------------|------------------|
| A8A-21□□ | 100                 | 1.5              |
| A8A-22□□ | 220                 | 1.5              |

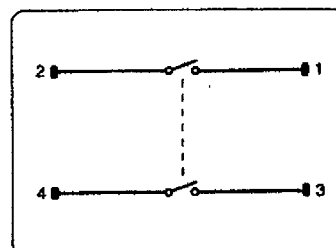
- Note: 1. The service life is 15,000 hours min.  
 2. LED lamps are also available in red. Use part number A8A-252-1.

## Contact Form

### Lighted



### Non-lighted



## Characteristics

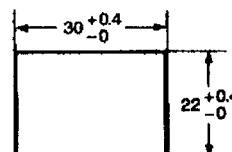
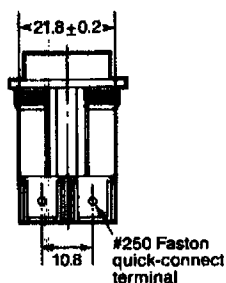
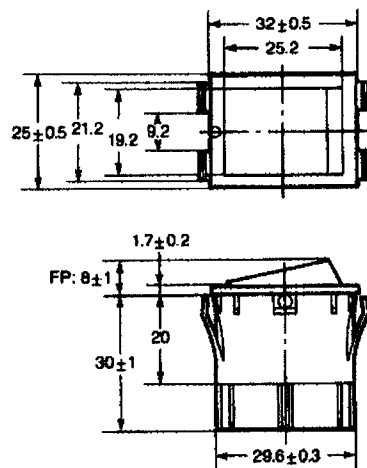
(Data shown are of initial value)

|                       |                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating speed       | 0.5 to 500 mm/sec                                                                                                                                                                          |
| Operating frequency   | Mechanical: 30 operations/min. max.<br>Electrical: 20 operations/min. max.                                                                                                                 |
| Insulation resistance | 100 MΩ min. (at 500 VDC)                                                                                                                                                                   |
| Contact resistance    | 20 mΩ max. 6V / 1A                                                                                                                                                                         |
| Dielectric strength   | 2,000 VAC, 50/60 Hz for 1 minute between terminals of same polarity<br>2,000 VAC, 50/60 Hz for 1 minute between terminals of different polarity* and also between each terminal and ground |
| Vibration             | Malfunction durability: 10 to 65 Hz; 1.5 mm double amplitude                                                                                                                               |
| Shock                 | Malfunction durability: 200 m/sec <sup>2</sup> (approx. 20G's)<br>Mechanical durability: 500 m/sec <sup>2</sup> (approx. 50G's)                                                            |
| Ambient temperature   | Operating: -20° to +50°C                                                                                                                                                                   |
| Humidity              | 45 to 85% RH                                                                                                                                                                               |
| Service life          | Mechanical: 40,000 operations min.<br>Electrical: 20,000 operations min.                                                                                                                   |
| Weight                | Non-lighted type: Approx. 15 g<br>Lighted type: Approx. 16 g                                                                                                                               |

Note: 1. \*The dielectric strength of the lighted type between terminals of different polarity is excluded.

## Dimensions

[Unit: mm]



### Operating characteristics

|         |        |
|---------|--------|
| OF max. | 200 g  |
| FP      | 8±1 mm |
| OP      | 5±1 mm |

Note: 1. Recommended panel thickness is 1.0 to 3.0 mm.

## Approved by Standards



Note that the rated values approved by each of the safety standards (e.g., UL, CSA) may be different from the performance characteristics individually defined in this catalog.

## Hints on Correct Use

### Mounting

The A8A can be mounted on a panel by one-touch. Mount the switch on the panel with the specified cutout dimensions and thickness. Do not use a warped panel or one with a protruding seam.

A mark (1.8-dia. depression) is provided on the case flange to indicate the ON side of the switch. Use this mark for reference when mounting the switch.

### Wiring

The terminal Nos. 1 and 3 of the lighted type are at the primary side. The neon lamp of the lighted type illuminates when the switch is turned ON and extinguishes when it is turned OFF.



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[A8A-202-1D](#)