ALE

Washable

RoHS Compliant

Standard Lever & Rocker Switches



UL

Features

1. High reliability

The twin-contact clip mechanism is employed for the contact section to ensure high reliability.

2. Process sealed structure

All types of the switch feature the completely sealed structure.

3. Designed for dry circuit applications

Since the contacts are gold-plated, the switches are best suited for use in the dry circuit areas.

4. Designed for PC board applications

The terminal pitches are all in inch size (2.54 mm).

5. Improved operability

The independent detent structure provides a light operating touch.

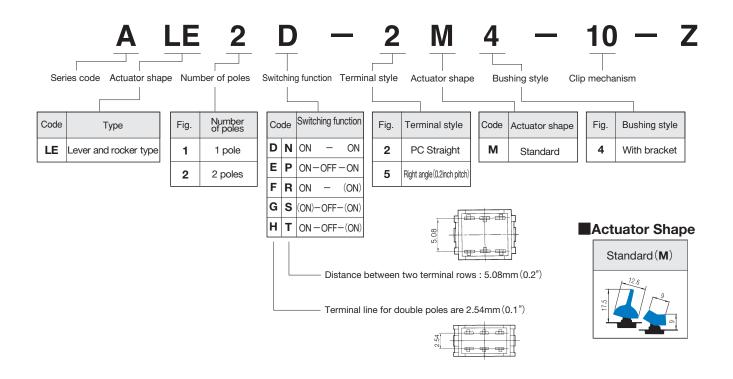
6. All models are of UL approved type.

(File No. E42375)

Specifications

Rating	Max: 50mA 60VAC/DC	Min : 1μ A 20mVAC/DC
Initial contact resistance	50mΩ max.	$(1.5 \text{mA} 200 \mu \text{VAC})$
Dielectric strength	250VAC 1 minute	
Insulation resistance	500MΩ min.	(500VDC)
Electrical life	10,000 cycles at ma 50,000 cycles at 0.4 30,000 cycles at 0.4	VA min. (D , E type)
Operating temperature range	-20~+85°C	
Storage temperature range	-40~+85°C	

Part Numbering



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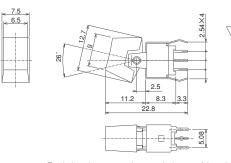
APE (Standard Lever & Rocker Switches)

SPDT





(Mount with Rocker)



Terminal	numbers	are no	t shown	on the	bottom	of the	switch.

Part number marking side.

Part number marking side.

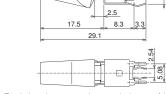
a.	Switching function	Viewed from part No. and rating marking side		
	Part No.	7=	4	4
<i>9</i> 1	ALE1D-2M4-10-Z	ON	_	ON
<i>9</i> 1	☆ALE1E-2M4-10-Z	ON	OFF	ON
<i>9</i> 1	☆ALE1F-2M4-10-Z	ON	_	(ON)
<i>9</i> 1	☆ALE1G-2M4-10-Z	(ON)	OFF	(ON)
<i>9</i> 1	★ALE1H-2M4-10-Z	ON	OFF	(ON)
	Connecting terminals	2-3	_	2-1

DPDT PC Straight



(Mount with Lever)

Distance between two terminal rows: 2.54 mm



Terminal numbers are not shown on the bottom of the switch

	Switching function	Viewed from part No. marking side			
	Part No.	7=	4	4	
<i>R</i> 2	☆ALE2D-2M4-10-Z	ON	_	ON	
<i>9</i> 1	▲ALE2E-2M4-10-Z	ON	OFF	ON	
<i>9</i> 1	▲ALE2F-2M4-10-Z	ON	_	(ON)	
<i>9</i> 1	▲ALE2G-2M4-10-Z	(ON)	OFF	(ON)	
<i>9</i> 1	▲ALE2H-2M4-10-Z	ON	OFF	(ON)	
	Connecting terminals	2-3 5-6	_	2-1 5-4	

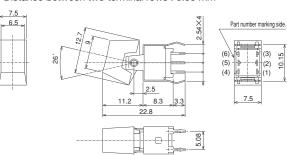
DPDT





(Mount with Rocker)

Distance between two terminal rows: 5.08 mm



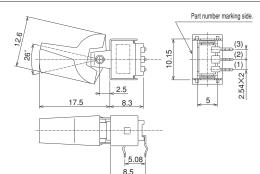
Terminal numbers are not shown on the bottom of the switch.

	Switching function	Viewed from part No. marking side			
	Part No.	7=	4	4	
<i>9</i> 1	★ALE2N-2M4-10-Z	ON	_	ON	
<i>9</i> 1	▲ALE2P-2M4-10-Z	ON	OFF	ON	
<i>9</i> 1	★ALE2R-2M4-10-Z	ON	_	(ON)	
<i>9</i> 1	★ALE2S-2M4-10-Z	(ON)	OFF	(ON)	
<i>9</i> 1	★ALE2T-2M4-10-Z	ON	OFF	(ON)	
	Connecting terminals	2-3 5-6	_	2-1 5-4	





(Mount with Lever)



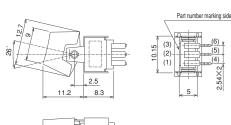
Terminal numbers are not shown on the bottom of the switch.

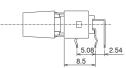
	Switching function	Viewed fr	Viewed from part No. marking side			
	Part No.	7=	4	4		
<i>9</i> 1	☆ALE1D-5M4-10-Z	ON	_	ON		
W	▲ALE1E-5M4-10-Z	ON	OFF	ON		
<i>9</i> 1	▲ALE1F-5M4-10-Z	ON	_	(ON)		
<i>9</i> 0	▲ALE1G-5M4-10-Z	(ON)	OFF	(ON)		
<i>9</i> 0	▲ALE1H-5M4-10-Z	ON	OFF	(ON)		
	Connecting terminals	2-3	_	2-1		





(Mount with Rocker)





Terminal numbers are not shown o	in the bottom of the switch.

Switching function Part No. ☆ALE2D-5M4-10-Z ON ON ▲ALE2E-5M4-10-Z ON OFF ON ▲ALE2F-5M4-10-Z ON (ON) ★ALE2G-5M4-10-Z (ON) OFF (ON) ▲ALE2H-5M4-10-Z ON OFF (ON) -3 2 - 1Connecting terminals 5-6 5-4

(ON): Momentary

▲ : Inquiry products.

☆: Semi-standard products.

★: Made to order products.

6.5

Viewed from part No. marking side

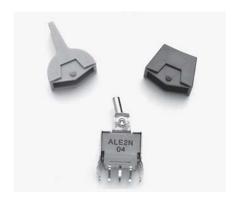
Standard Accessories

(Supplied separately)

Lever		Rocker			
Dimension	Color	Part No.	Dimensions	Color	Part No.
Gloss finish 1.5 6	White	140000050624	Gloss finish	White	140000480673
Gloss linish	Red	140000050626	Gloss linish	Red	140000480675
6	Black 1	140000050625	9 1 6.5	Black	140000480674
2 3	Gray	140000050630		Gray	140000480679
	Green	140000050628		Green	140000480677
W 100	Blue	140000050629	12.7	Blue	140000480678
12.6	Orange	140000050632		Orange	140000480680
	Yellow 14000050627		Yellow	140000480676	
ABS resin	Brown	140000050647	ABS resin	Brown	140000480693

The lever and the rocker are standard accessories. Specify either of the lever or the rocker in part number.

■Lever•rocker Installation procedure —



Mount the lever or the rocker after cleaning.

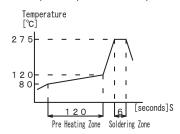
■ Soldering Specifications

(1) Manual Soldering

Device: Soldering iron 380°C, Max.; 3 seconds, Max.

(2) Auto Soldering

Device: Jet wave type or dip type 275°C, Max.; 6 seconds, Max.



 Pre-heating should be done at temperatures ranging from 80°C to 120°C and within 120 seconds.

Note: Mount the accessories of knob and lever after the soldering.

■PC Hole Layouts

(Top view)

		(100 11011)
	1—pole (Compact type)	7-41 3 3 2.54 2.54 2.54 2.54
PC Straight	2—poles (Compact type)	10-61 3, 8 2,54 2,54 2,54
	2—poles (Two terminal rows)	10- \$1 10- \$1 10- \$1 10- \$1 10- \$1 10- \$1 10- \$1 10- \$1
Right angle	1—pole (Compact type)	5-61
terminal	2—poles (Compact type)	8-9-1 30 30 30 30 30 30 30 30 30 30 30 30 30

Flux Cleaning

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- (1)For the solvent, use the fluorine- or alcohol-based solvent. Solvent: Fluorine or Alcohol type
- (2) Cleaning after soldering should be done after the terminal temperature falls to 90°C or below, or after leaving the switch for five minutes or longer at room temperature.

Packaging Specification

