#### 查询A165E-LS-01供应商

# 捷多邦,专业PCB打样工厂,24小时加急出货 OMRON

**Emergency Stop Switch** 

# A165E

# Mounting Aperture of 16 mm

- · Modular construction, easy installation
- · Direct opening mechanism with minimum contact separation of 3 mm in accordance with EN60947-5-1,  $\ominus$ . (only for NC contacts)
- Conforms to EN418, EN60947-5-1.
- · Includes a safety lock to prevent misuse.
- Features separate construction that allows the Switch to be separated for easier wiring and onepiece-like construction that allows easier handling.
- High reliability, IP65
- Short mounting depth, less than 28.5 mm below panel
- Quick and easy assembly, snap-in Switch.
- A165E is identifiable, clearly visible and will stop a dangerous process, without creating additional hazards.

#### Model Number Structure

Model Number Legend



- 1. Lighted/Non-lighted None: Non-lighted
  - L: Lighted
- 2. Head Size
  - S: 30 mm dia.
  - M: 40 mm dia.
- 3. Illumination (Operation Voltage/Rated Voltage) WWW.DZSC.COM None: Non-lighted 24D: LED (24 VDC)

**(€91°** 

4. Contacts 01: SPST (NC) 02: DPST (NC) 03U: TPST (NC) One-body, non-lighted models only



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# **Ordering Information**

#### List of Models

Illumination	Rated voltage	Pushbutton color	Pushbutton size	Terminal	Contact	Standard load (125 VAC at 5 A, 250 VAC at 3 A, 30 VDC at 3 A)
LED	24 VDC			Solder terminal	SPST-NC	A165E-LS-24D-01
					DPST-NC	A165E-LS-24D-02
None		Red	30 dia.		SPST-NC	A165E-S-01
					DPST-NC	A165E-S-02
					TPST-NC	A165E-S-03U
LED	24 VDC		40 dia.		SPST-NC	A165E-LM-24D-01
LED	24 VDC				DPST-NC	A165E-LM-24D-02
None					SPST-NC	A165E-M-01
					DPST-NC	A165E-M-02
					TPST-NC	A165E-M-03U

Note: The above models have a surface indication of "RESET." Models with "STOP" indication are also available. For further information, contact your OMRON representative.

#### Accessories (Order Separately)

Item	Appearance	Туре	Model	Precautions
Yellow Plate	$\bigcirc$	Yellow, 45 dia.	A16Z-5070	Use this as an emergency stop nameplate.
		Rectangular	A16ZJ-3003	Used for covering the panel cutouts for future panel expansion.
Panel Plug		Square	A16ZA-3003	
		Round	A16ZT-3003	
Tightening Tool			A16Z-3004	Useful for repetitive mounting. Be careful not to tighten excessively.
Extractor			A16Z-5080	Convenient for extracting the Switch and Lamp.

#### **Specifications**

#### Approved Standards

Recognized Organization	Standards	File No.
UL, cUL (see note)	UL508	E41515
AZCO	EN60947-5-1	C9805501

Note: UL: UL508, cUL: CSA C22 No. 14

# Approved Standard Ratings

#### UL, cUL

Rated voltage	Rated current		
naleu vollage	A165E series	A165E-U series	
125 VAC	5 A (General use)	1 A (General use)	
250 VAC	3 A (General use)	0.5 A (General use)	
30 VDC	3 A (Resistive)	1 A (Resistive)	

Ratings Switch Ratings

Rated voltage	Resistive load		
naleu vollage	A165E series	A165E□-U series	
125 VAC	5 A	1 A	
250 VAC	3 A	0.5 A	
30 VDC	3 A	1 A	
Minimum applicable load	150 mA at 5 VDC	1 mA at 5 VDC	

#### Characteristics

Item		Emergency Stop Switch		
Allowable operating	Mechanical	20 operations/minute max.		
frequency	Electrical	10 operations/minute max.		
Insulation resistance		100 MΩ min. (at 500 VDC)		
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between terminals of same polarity 2,000 VAC, 50/60 Hz for 1 min between terminals of different polarity and also between each terminal and ground 1,000 VAC, 50/60 Hz for 1 min between lamp terminals (see note)		
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)		
	Destruction	500 m/s <sup>2</sup>		
Shock resistance	Malfunction	300 m/s <sup>2</sup> max. (malfunction within 1 ms), 150 m/s <sup>2</sup> max. In case of A165E⊡U series		
Durchility	Mechanical	100,000 operations min.		
Durability	Electrical	100,000 operations min.		
Ambient temperature		Operating:-10°C to 55°C (with no icing or condensation) Storage:-25°C to 65°C (with no icing or condensation)		
Ambient humidity		Operating:35% to 85%		
Electric shock protection class		Class II		
PTI (tracking characteristic)		175		
Degree of contamination		3		
Weight		Approx. 16 g (in case of DPDT Switches)		

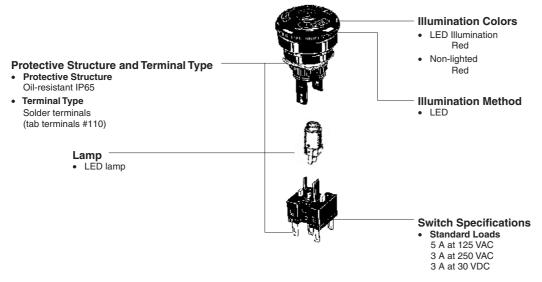
Note: LED not mounted. Test them with the LED removed.

### **Operating Characteristics**

Features	Characteristics
Operating force (OF) max.	14.7 N
Releasing force (RF) min.	0.1 N·m
Pretravel (PT)	$3.5\pm0.5$ mm ( $3\pm0.5$ mm In case of A165E $\Box$ U series)

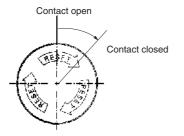
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#### Nomenclature



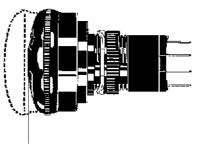
Note: A165E Emergency Stop Switch must be ordered as a set. No LED is installed for the non-lighted model.

#### Push-lock, Turn-reset System Prevents Misuse



#### Safety Lock Prevents Misuse

Even if an object or person touches the pushbutton by mistake, the contact will not be released unless the pushbutton reaches the lock position.

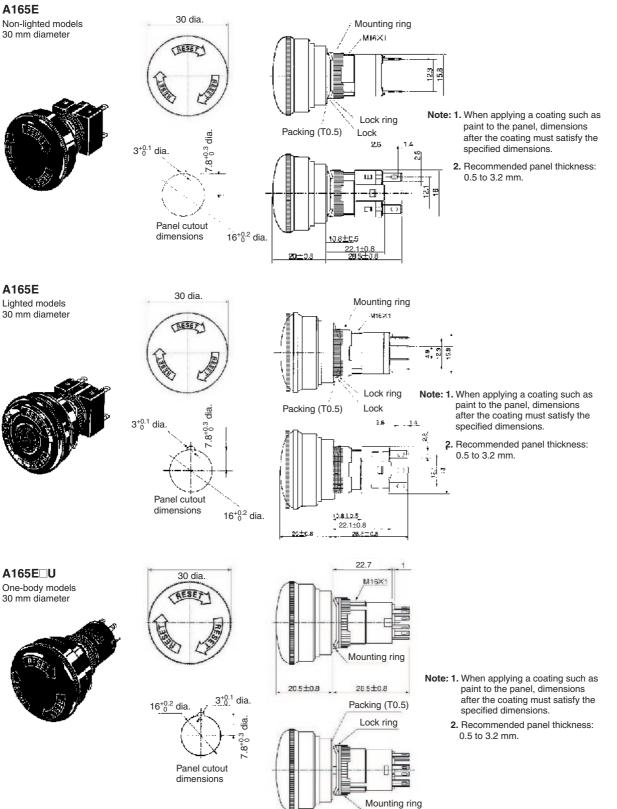


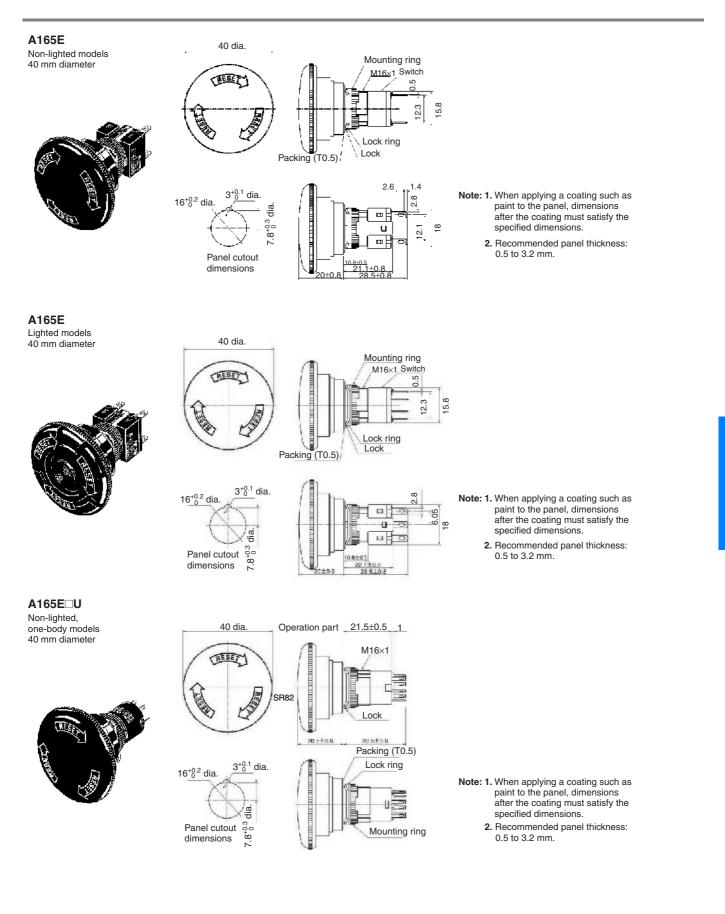
Lock position

#### **Dimensions**

#### Note: All units are in millimeters unless otherwise indicated.

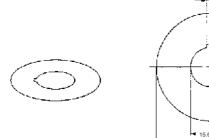


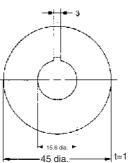




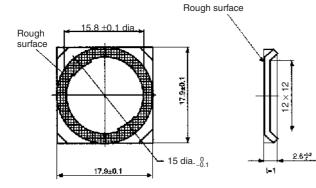
#### Accessories

#### Yellow Plate (Vinyl Chloride) A16Z-5070



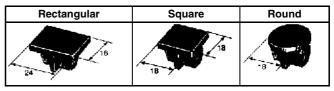


Lock Ring

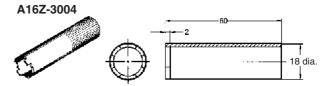


#### Panel Plugs

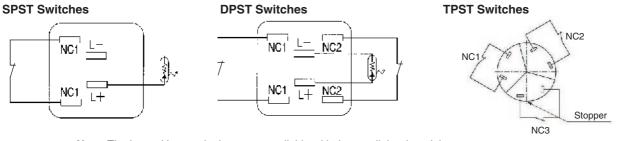
Select an appropriate Panel Plug according to the panel design and mount from the front side of the panel. Panel cutout dimensions are the same as those for the Switch.



#### Screw Fitting



#### **Terminal Arrangement**



Note: The L+ and L- terminals are not available with the non-lighted models.