

Emergency Stop Switch (16 mm diameter)

- Separate construction with smallest class of depth in the world
- Direct opening mechanism to open contacts in emergencies, such as when they are welded.
- Conforms to EN418.
- Includes a safety lock to prevent misuse.
- Features separate construction that allows the switch to be separated for easier wiring and one-piece-like construction that allows easier handling.
- · Models available with 3 contacts built into a single block (A165E-U).



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Specifications

Certified Standards

Certification body	Standard	File No.
UL *1	UL 508, CSA C22.2 No.14	E41515
TÜV SÜD	EN 60947-5-1, EN 60947-5-5	Consult your representative for details.
CQC (CCC)	GB14048.5	2003010303070678

^{*}Certification for CSA C22.2 No. 14 is authorized by the mark.

Certified Standard Ratings

UL508, CSA C22.2 No. 14, CCC (GB14048.5)

Models with

Separate Construction

Rated Voltage	Resistive Load
125 VAC	5 A
250 VAC	3 A
30 VDC	3 A

Models with

One-piece Construction

Rated Voltage	Resistive Load
125 VAC	1 A
250 VAC	0.5 A
30 VDC	1 A

TÜV (EN 60947-5-1)

Models with

Separate Construction

Rated Voltage	Resistive Load
250 VAC	3 A
30 VDC	3 A

Models with

One-piece Construction

Rated Voltage	Resistive Load
250 VAC	0.5 A
30 VDC	1 A

Switch Ratings

Models with **Separate Construction**

Rated Voltage	Resistive Load
125 VAC	5 A
250 VAC	3 A
30 VDC	3 A

Note: Minimum applicable load: 5 VDC, 150 mA

Models with **One-piece Construction**

Rated Voltage	Resistive Load
125 VAC	1 A
250 VAC	0.5 A
30 VDC	1 A

Note: Minimum applicable load: 5 VDC, 1 mA

LED Ratings (Only for models with LEDs)

Rated Voltage	Rated Current	Operation Voltage
24 VAC/VDC	8 mA	24 VAC/DC ±5%

Panel cutout

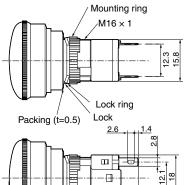
dimensions

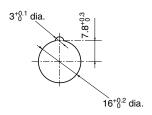
Dimensions (mm)

A165E-S

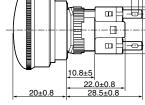
Non-lighted models 30 mm diameter







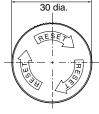
- When applying a coating such as paint to the panel, dimensions after the coating must satisfy the specified dimensions.
- $\cdot \ \text{Recommended panel thickness:} \\$ 0.5 to 3.2 mm.

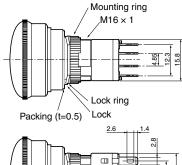


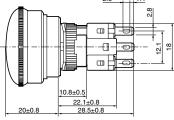
A165E-LS

Lighted models 30 mm diameter

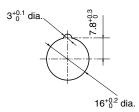








Panel cutout dimensions



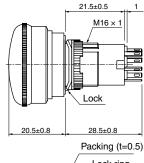
- · When applying a coating such as paint to the panel, dimensions after the coating must satisfy the specified dimensions.
- · Recommended panel thickness: 0.5 to 3.2 mm.

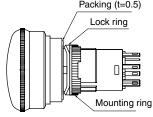
A165E-S-03U

Non-lighted, One-piece construction models 30 mm diameter









Panel cutout dimensions 3^{+0.1} dia. 16^{+0.2} dia 7.8+0.3

- · When applying a coating such as paint to the panel, dimensions after the coating must satisfy the specified dimensions.
- · Recommended panel thickness: 0.5 to 3.2 mm.





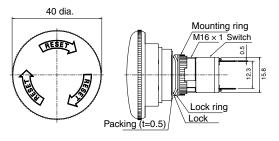
Dimensions (continued)

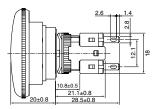
(mm)

A165E-M

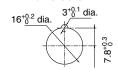
Non-lighted models 40 mm diameter







Panel cutout dimensions



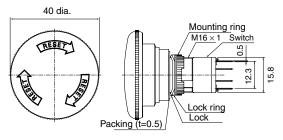
- When applying a coating such as paint to the panel, dimensions after the coating must satisfy the specified dimensions.
- Recommended panel thickness: 0.5 to 3.2 mm.

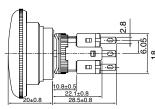
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A165E-LM

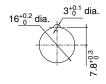
Lighted models 40 mm diameter







Panel cutout dimensions

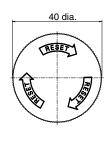


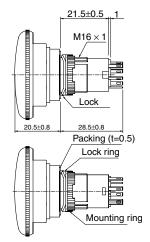
- When applying a coating such as paint to the panel, dimensions after the coating must satisfy the specified dimensions.
- Recommended panel thickness: 0.5 to 3.2 mm.

A165E-M-03U

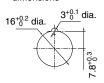
One-piece construction models 40 mm diameter







Panel cutout dimensions



- When applying a coating such as paint to the panel, dimensions after the coating must satisfy the specified dimensions.
- Recommended panel thickness: 0.5 to 3.2 mm.

Ordering

Model Number Structure (Completely Assembled)

(Shipped as a set that includes the Operation Unit and light source.)

A165E − □ - □ - □

0 0 0

Operation Unit Shape and Function

S: Non-lighted, push-lock, turn-reset, 30 dia. pushbutton

LS: Lighted, push-lock, turn-reset, 40 dia. pushbutton

M: Non-lighted, push-lock, turn-reset, 40. dia. pushbutton

LM: Lighted, push-lock, turn-reset, 40 dia. pushbutton

2 Light Source

None: Non-lighted

24D: LED, 24 VAC/VDC ±5% operation voltage, 24 VAC/VDC rated voltage

Note: Models with separate construction (SPST-NC and DPST-NC) are for normal loads only. One-piece models

(TPST-NC) are for either normal loads or microloads.

3 Contacts

01: SPST-NC02: DPST-NC03U: TPST-NC*

*TPST-NC models have once-piece construction with the contact unit. Only non-lighted models are available.

List of Models

Diameter of Operation Unit	Function	Model		Shape
30-mm models	Push-Lock,	A165E	Separate construction	(30-mm model)
30-mm models 40-mm models	turn-reset	A165E-□-03U	One-piece construction	(30-mm model)

List of Sets

Illumination	Rated voltage	Pushbutton color	Pushbutton size	Terminal	Contact form	Model
LED	24 VAC/VDC				SPST-NC	A165E-LS-24D-01
LED	24 VAC/VDC		20 dia		DPST-NC	A165E-LS-24D-02
Non lighted			30 dia.		SPST-NC	A165E-S-01
Non-lighted				DPST-NC	A165E-S-02	
LED	24 VAC/VDC	Dod	Red	Solder terminal 40 dia.	SPST-NC	A165E-LM-24D-01
LED	24 VAC/VDC	Red			DPST-NC	A165E-LM-24D-02
Non-lighted		40 dia	40 dia.		SPST-NC	A165E-M-01
Non-lighted					DPST-NC	A165E-M-02
Non-limbted		30 dia.		TDOTNO	A165E-S-03U	
Non-lighted			40 dia.		TPST-NC	A165E-M-03U

= Highlighted Rapid Delivery products are available for shipment today or within FIVE days.



Individual Parts (for Switches with Separate Construction)

Operation Units

Appearance		Illumination	Model	
		Non-lighted	A165E-S	
30 dia.	Lighted	A165E-LS		
40 dia.	Non-lighted	A165E-M		
		Lighted	A165E-LM	

Appearance Illumination		Contact form	Model
	Non-lighted	SPST-NC	A165E-01
		DPST-NC	A165E-02
	Lighted	SPST-NC	A165E-01L
		DPST-NC	A165E-02L

Lamps

Appearance	LED color		Rated voltage	Model
~			5 VDC	A16-5DSR
0	Red	Bright	12 VAC/VDC	A16-12DSR
			24 VAC/VDC	A16-24DSR

Switch Units

Appearance	Illumination	Contact form	Model
No. of the control of	Lighted	SPST-NC	A165E-R-24D-01
		DPST-NC	A165E-R-24D-02

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Accessories (Order separately)

Item	Appearance	Туре	Model	Precautions
Yellow Plate	0	Yellow, 45 dia.	A16Z-5070	Use this as an emergency stop nameplate.
Panel Plug		Round	A16ZT-3003	Used for covering the panel cutouts for future panel expansion. Degree of protection: IP40 Color: Black
Tightening Tool			A16Z-3004	Useful for repetitive mounting. Be careful not to tighten excessively.
Extractor	4		A16Z-5080	Convenient for extracting the Switch and Lamp.





OMRON SCIENTIFIC TECHNOLOGIES, INC.