APEM

Switches & Pilot Lights

Control Boxes

Enabling

Switches

Safety Products **Explosion Proof**

Terminal Blocks

LED Illumination

Controllers

Operator Interfaces Sensors AUTO-ID

Circuit Protectors **Power Supplies**

Ø16 XA Series Emergency Stop Switches (Unibody)

Small, unibody emergency stop switches suitable for equipment with small mounting space. Requires only \emptyset 16mm \times 19.5mm for installation.

- ø29mm and ø40mm mushroom operators
- Degree of protection IP65 and IP40 (IEC 60529)
- Dark red (Munsell 5R4/12) and bright red (Munsell 7.5R4.5/14) colors for operators of emergency stop switches.
- · Silver with gold contacts.
- Push-to-lock, pull or turn-to-reset operator
- Safety lock mechanism (IEC 60947-5-5, 6.2)
- · Direct opening action mechanism (IEC 60947-5-5, 5.2, IEC60947-5-1, Annex K)



JEC 60947-5-1 FN 60947-5-1

Standards and Specifications

Contact Ratings

Rated Insulation Voltage (Ui)			250V		
Thermal Current (Ith)			5A		
Rated Operating Voltage (Ue)		30V	125V	250V	
Rated Operating Current	AC 50/60Hz	Resistive Load (AC-12)	_	5A	3A
		Inductive Load (AC-15)	_	3A	1.5A
	DC	Resistive Load (DC-12)	2A	0.4A	0.2A
		Inductive Load (DC-13)	1A	0.22A	0.1A
		(DC-13)	•••		2

- Minimum applicable load: 5V AC/DC, 1 mA (reference value) (May vary depending on the operating conditions and load.)
- The rated operating currents are measured at resistive/inductive loads as specified in IEC 60947-5-1.

Specifications

Applicable Standards	IEC 60947-5-1, EN 60947-5-1 IEC 60947-5-5, EN 60947-5-5 JIS C8201-5-1, UL508, CSA C22.2 No.14 GB14048.5			
Operating Temperature	-25 to +60°C (no freezing)			
Storage Temperature	-45 to +80°C (no freezing)			
Operating Humidity	45 to 85% RH (no condensation)			
Operating Force	Push-to-lock: 10.5N Pull to reset: 10N Turn to reset: 0.16 N·m			
Minimum Force Required for Direct Opening Action	40N			
Minimum Operator Stroke Required for Direct Opening Action	4.0 mm			
Maximum Operator Stroke	4.5 mm			
Contact Resistance	50 mΩ maximum (initial value)			
Insulation Resistance	100 MΩ minimum (500V DC megger)			
Overvoltage Category	II			
Impulse Withstand Voltage	2.5 kV			
Pollution Degree	3			
Operating Frequency	900 operations/hour			
Shock Resistance	Operating extremes: 150 m/s ² Damage limits: 1000 m/s ²			
Vibration Resistance	Operating extremes: 10 to 500 Hz, amplitude 0.35mm, acceleration 50 m/s² Damage limits: 10 to 500 Hz, amplitude 0.35 mm, acceleration 50 m/s²			
Durability	Mechanical: 250,000 Electrical: 100,000 250,000 (24V AC/DC, 100mA)			
Degree of Protection	IP65, IP40 (IEC 60529)			
Short-circuit Protection	250V/10A fuse (Type aM IEC 60269-1/IEC 60269-2)			
Conditional Short-circuit Current	1000A			
Terminal Style	Solder terminal, Solder/tab #110 terminal			
Recommended Tightening Torque for Locking Ring	0.88 N·m			
Applicable Wire Size	1.25 mm² maximum (AWG16 maximum)			
Terminal Soldering Condition	310 to 350°C, within 3 seconds			
Weight (approx.)	ø29mm mushroom: 14g ø40mm mushroom: 17g			

XW XN

SEMI

ø16 XA Series Emergency Stop Switches (Unibody)

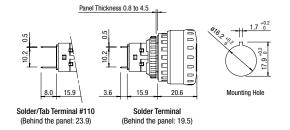
Pushlock Pull/Turn Reset (Solder Terminal)

XA Series

Chana	Comtont	Par	① Operator Color		
Shape	Contact IP40 (contact part: black)		IP65 (contact part: yellow)	Code	
ø29mm Mushroom	1NC	1NC XA1E-BV3U01K⊕ XA1E-BV3U01⊕			
(E)	2NC	XA1E-BV3U02K①	XA1E-BV3U02⊕	R: red	
ø40mm Mushroom	1NC	XA1E-BV4U01K⊕	XA1E-BV4U01 [⊕]	RH: bright red	
	2NC	XA1E-BV4U02K⊕	XA1E-BV4U02①		

[•] Solder/tab #110 terminal is also available. Specify "T" before \odot in the Ordering No. XA1E-BV3U02KR \to XA1E-BV3U02KTR

Dimensions









ø29 mm Mushroom





ø40 mm Mushroom

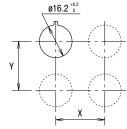
All dimensions in mm.

Terminal Arrangement (Bottom View)



1NC: Termimals on top

Mounting Hole Layout



 The values shown on the left are the minimum dimensions for mounting with other ø16 mm pushbuttons. For other control units of different sizes and styles, determine the values according to the dimensions, operation, and wiring.

	X	Υ
ø29mm Mushroom	40 mm minimum	
ø40mm Mushroom	50 mm minimum	

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ø16 X6/XA Series Emergency Stop Switches Accessories

Accessories and Replacement Parts (ø16 X6/XA Series Emergency Stop Switches)

Description & Shape	Material	Part No.	Package Quantity	Remarks	
Ring Wrench	Metal (nickel-plated brass)	MT-001	1	Used to tighten the locking ring when installing the XA emergency stop switch onto a panel.	
Locking Ring	Polyamide	XA9Z-LN	10	• Black	
Terminal Cover	PBT	XA9Z-VL2	2	White Used for solder terminals. Also applicable to the XW series.	
LED Unit	For Solder Terminal	XA9Z-LED2R		Replacement LED unit for illuminated (for XA)	
	For PC Board Terminal	XA9Z-LED2VR	1	series only).	
LED Unit Removal Tool	Stainless Steel	MT-101		Used for removing the LED unit.	

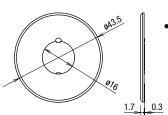
Nameplates (for ø16 X6/XA Emergency Stop Switches)

						Package quantity: 1
	Description	Legend	Part No.	Material	Plate Color	Legend Color
	For ø30mm Operator	(blank)	HAAV-0			
		EMERGENCY STOP	HAAV-27		Valleur	Dlask
For ø40	-au a 40 mana On avakav	(blank)	HAAV4-0	Polyamide	Yellow	Black
	For ø40mm Operator	EMERGENCY STOP	HAAV4-27			

[·] Cannot be used with a switchguard.

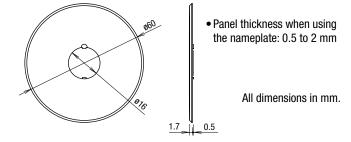
For ø30mm Operator

SEMI



• Panel thickness when using the nameplate: 0.5 to 2 mm

For ø40mm Operator



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