



INSTRUCTION SHEET

XA1E Series

Thank you for selecting IDEC product. Please confirm that the delivered product is what you have ordered.

♠ SAFETY NOTE

- Read this instruction sheet and the catalog for the XA1E series emergency stop switches to make sure of correct operation before starting installation, wiring, operation, maintenance, and inspection. Make sure that the instruction sheet is kept by the end user.
- · Turn off the power to the XA1E before starting installation, wiring, maintenance and inspection of the XA1E. Failure to turn power off may cause electric shock or fire hazard.
- · Use wires of an appropriate size to meet the voltage and current requirement. Using inappropriate wires may cause overheat, resulting in possible fire hazard. Also provide necessary protection against electric shock, otherwise electric shock or fire hazard may be caused

Removing and Installing the Contact Block

□Removing

First unlock the operator button. While pushing up the white bayonet ring with force, using a small screwdriver (width: 3 mm maximum) if necessary, turn the contact block counterclockwise and pull out.

· Notes for removing the contact block

(Turn counterclockwise) When the contact block is removed, the monitor contact (NO contact) is closed.

2) While removing the contact block, do not exert an excessive force, otherwise the switch may be damaged. □Installing

First turn the bayonet ring tab to the unlocked position.







TOP Marking(Contact Block) Align the small ▲ marking on the edge of the operator boss with the TOP marking on the contact block. Press the contact block onto the operator and turn the contact block clockwise until the bayonet ring clicks. Make sure that the contact block is securely installed by confirming that the contact does not turn counterclockwise.

Notes for Operation

□Contact Bouncing

When the button is reset by pulling or turning, the NC main contacts cause bouncing. When pressing the button, the NO monitor contacts cause bouncing. When designing a control circuit, take the bouncing into consideration (reference value: 20 ms).

□Handling

Do not expose the switch to excessive shocks and vibrations, otherwise the switch may be deformed or damaged, causing malfunction or operation failure.

Contact Ratings [Main Contact (NC) and Monitor Contact (NO)]

Rated Insulation Voltage (Ui)				300V		
Rated Current (Ith)			5A			
Rated Operating Voltage (Ue)			30V	125V	250V	
ţ,	AC	Resistive Load (AC-12)	-	3A	3A	
Current	50/60Hz	Inductive Load (AC-15)	-	1.5A	1.5A	
	DC	Resistive Load (DC-12)	2A	0.4A	0.2A	
	3 00	Inductive Load (DC-13)	1A	0.22A	0.1A	
ated Operating	. AC	Resistive Load (AC-12)	-	1.2A	0.6A	
	50/60Hz	Inductive Load (AC-14)	-	0.6A	0.3A	
Rated	5 DC	Resistive Load (DC-12)	2A	0.4A	0.2A	
a l≥o		Inductive Load (DC-13)	1A	0.22A	0.1A	

4 Built-in LED Ratings

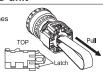
Rated Voltage	Operating Voltage	Operating Current					
24V AC/DC	24V AC/DC ± 10%	11 mA					

□Removing

Pull out the LED unit while pinching the latches on the LED unit using special tool MT-101.

□Installing

Alian the top of the LED unit with the TOP marking on the contact block. Push the LED unit into the contact block



Specifications

	IEC60947-5-1, EN60947-5-1			
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Applicable Standard	JIS C8201-5-1, UL508, CSA C22.2 No.14			
	CCC GB14048.5			
	Operating temperature			
	Non illuminated: 25 to 60 °C (no freezing)			
Standard Operating	LED illuminated: 25 to 55 °C (no freezing)			
Conditions	Relative humidity: 45 to 85 % RH (no condensation)			
	Storage temperature: 45 to 80 °C (no freezing)			
Minimum Direct	Storage temperature: 45 to 80 C (no freezing)			
	60 N			
Opening Force				
Minimum Direct	4.0 mm			
Opening Travel				
Maximum Travel	4.5 mm			
Contact Resistance	50 mΩ maximum (initial value)			
Insulation Resistance	100 MΩ minimum (500V DC megger)			
Overvoltage Category	gory I			
Impulse Withstand	2.5 kV			
Voltage				
Pollution Degree	3			
Operating Frequency	900 operations/hour			
Mechanical Life	250,000 operations minimum			
	100,000 operations minimum			
Electrical Life	250,000 operations minimum (24V AC/DC, 100mA)			
	Operating extremes: 150 m/s ²			
Shock Resistance	Damage limits: 1,000 m/s ²			
	Operating extremes: 10 to 500 Hz, amplitude 0.35 mm,			
	acceleration 50 m/s ²			
Vibration Resistance	Damage limits: 10 to 500 Hz, amplitude 0.35 mm,			
	acceleration 50 m/s ²			
Degree of Protection	IP65 (panel front)			
Short-circuit	I do (pariel none)			
Protective Device	250V/10A fuse (Type aM IEC60269-1/IEC60269-2)			
Conditional Short-				
	1,000 A			
circuit Current				
Terminal Style	Solder terminal, PC board terminal			
Recommended	0.88 N·m			
Tightening Torque				
of Locking Ring				
Applicable Wire	1.25 mm² maximum (AWG16 maximum)			
Soldering Condition	310~350°C/3 seconds			

*: These standards require red-colored operator buttons.

Emergency stop switches with other-colored operator buttons conform to all other requirements except for the color requirement.

Contact Arrangements (Bottom View) 8 Mounting Hole Dimensions With 1NO monitor contact > < NC main contacts only >

TOP 7.6°2

1NC: Terminals on top 2NC: Terminals on right and left

TOP 1NC: Terminals on right 2NC: Terminals on right and left 3NC: Terminals on right, left and top



LED unit internal circuit 10 Notes for Using Nameplate

