

idec XW1E Series Emergency Stop Switch

Please confirm that the delivered product is what you have ordered.

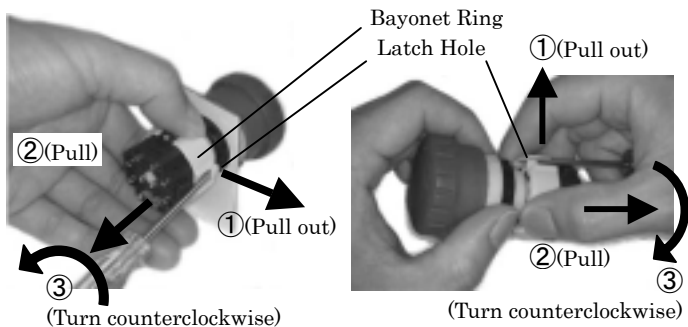
⚠ Safety Precautions

- Read this instruction sheet and the catalog for the XW1E 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 XW1E before starting installation, wiring, maintenance and inspection of the XW1E. 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.

1. Removing and Installing the Contact Block

Removing

For easy removal of the contact block from the operator, first unlock the operator button. Push back the yellow bayonet ring with force until the latch pin clicks, then turn the contact block counterclockwise and pull out. Another method is to insert a small screwdriver into the latch hole to pull out the latch pin. While pulling the latch outward lightly, push back the yellow bayonet ring, then turn the contact block counterclockwise and pull out. **Do not pull out the latch strongly. Excessive force will break the latch.**

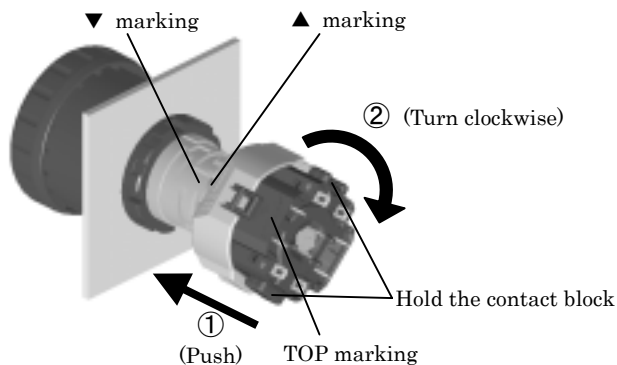


(When mounted on a panel) (When not mounted on a panel)

Note: When the contact block is removed, the monitor contact (NO contact) is closed.

Installing

For easy installation of the contact block onto the operator, first unlock the operator button. Align the small ▼ marking on the edge of the operator boss with the small ▲ marking on the bayonet ring. Hold the contact block, not the yellow bayonet ring. Press the contact block onto the operator and turn the contact block clockwise until the bayonet ring clicks.



2. 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		
Rated Operating Current	Main Contact	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
	Monitor Contact	AC 50/60Hz	Resistive Load (AC-12)	-	1.2A	0.6A
			Inductive Load (AC-14)	-	0.6A	0.3A
DC		Resistive Load (DC-12)	2A	0.4A	0.2A	
		Inductive Load (DC-13)	1A	0.22A	0.1A	

3. Internal LED Ratings

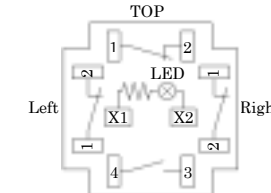
Rated Voltage	Operating Voltage	Operating Current
24V AC/DC	24V AC/DC ±10%	15 mA

4. Specifications

Applicable Standard	IEC60947-5-1, EN60947-5-1 IEC60947-5-5, EN60947-5-5 JIS C8201-5-1, UL508, CSA C22.2 No. 14
Standard Operating Conditions	Operating temperature Non-illuminated: -25 to +60 °C (no freezing) LED illuminated: -25 to +55 °C (no freezing) Relative humidity: 45 to 85 % RH (no condensation) Storage temperature: -45 to +80 °C (no freezing)
Operating Force	Push: 32 N Turn: 0.27 N·m Pull: 21 N
Minimum Direct Opening Force	80 N
Minimum Direct Opening Travel	4.0 mm
Maximum Travel	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
Mechanical Life	250,000 operations minimum
Electrical Life	100,000 operations minimum
Shock Resistance	Operating extremes: 100 m/s ² Damage limits: 1,000 m/s ²
Vibration Resistance	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm, acceleration 60 m/s ² Damage limits: 5 to 55 Hz, amplitude 0.5 mm, acceleration 60 m/s ²
Degree of Protection	IP65 (panel front)
Short-circuit Protective Device	250V/10A fuse (Type aM IEC60269-1/IEC60269-2)
Conditional Short-circuit Current	1,000 A
Terminal Configuration	Solder terminal PC board terminal
Recommended Tightening Torque of Locking Ring	2.0 N·m
Applicable Wire	1.25 mm ² maximum (AWG16 maximum)
Soldering Condition	20 W/5 seconds or 260 °C/3 seconds

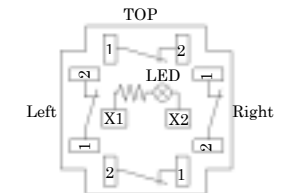
5. Contact Arrangements (Bottom View)

<Contact configuration with a monitor contact (NO)>



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

<Contact configuration with main contacts (NC) only>



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

6. Mounting Hole Layout



All dimensions in mm.

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No. B-791(1) 2003.8