

INSTRUCTION SHEET
Original Instructions

XA1E/XW1E Series



Confirm that the delivered product is what you have ordered.

Safety Precautions

- Be sure to read this instruction sheet and the catalog carefully before performing installation, wiring, or maintenance work.
In this instruction sheet, safety precautions are categorized in order of importance from Warning and Caution:

WARNING

Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

CAUTION

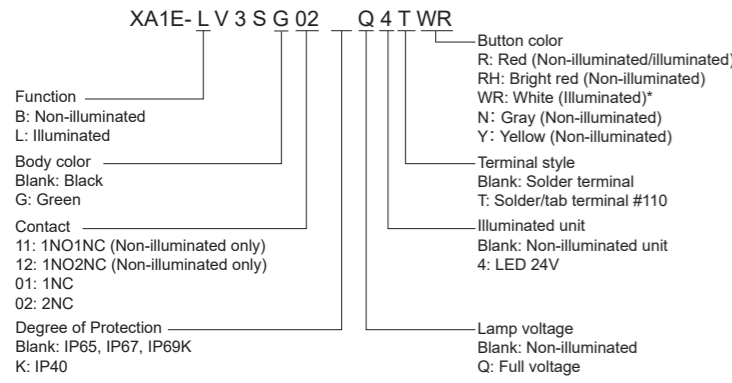
Caution notices are used where inattention might cause personal injury or damage to equipment.

WARNING

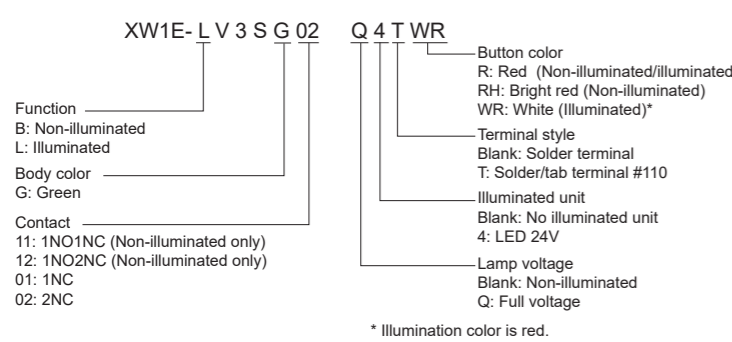
- Turn off the power before starting installation, removal, wiring, maintenance, and inspection of the products.
Use wires of the proper size to meet the voltage and current requirements.

1 Part No. configuration

XA series



XW series

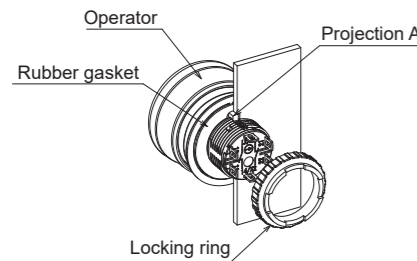


2 Panel mounting

- Notes for panel mounting: Do not use pliers. Do not exert excessive force, otherwise the locking ring may be damaged.

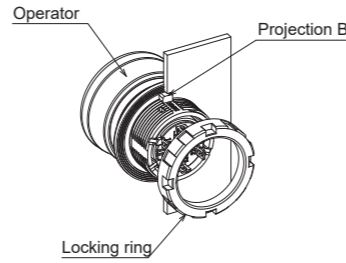
XA series

Panel mounting: Remove the locking ring from the operator and check that the rubber gasket is in place. Insert the operator from panel front into the panel hole.



XW series

Panel mounting: Remove the locking ring from the operator and insert the operator from panel front into the panel hole. Install the locking ring with the recommended tightening torque by aligning the projection B of the operator with the panel hole groove.

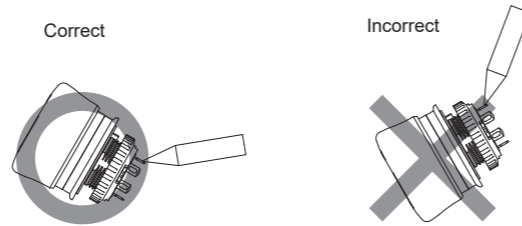


\* The XW series do not use the rubber gasket.

3 Instructions

Wiring (Notes for solder terminal)

- 1. Applicable wire size is 1.25 mm² maximum.
2. Solder the terminals using a soldering iron at 310 to 350°C for 3 seconds maximum. Do not use flow or dip soldering.
3. Use a non-corrosive rosin-based flux. To prevent the flux from entering the switch while soldering, face the terminals downward.



- 4. Because the terminal spacing is narrow, use protective tubes or heat shrinkable tubes to avoid burning the wire sheath or short circuit.
5. Apply force on the terminals in the vertical direction to the panel only, otherwise the terminals will be damaged.

Wiring (Notes for solder/tab terminal #110)

- 1. Use quick connect of #110 and 0.5mm tab thickness.
2. To prevent short-circuit between different poles, use protective tubes or heat shrink tubes.
3. Apply force on the terminals in the vertical direction to the panel only, otherwise the terminals will be damaged.

Contact chatter/bounce

Contact chatter/bounce may occur when the main contact (NC contact) is reset by pulling or turning or when the monitor contact (NO contact) is pressed. Take countermeasures to prevent chatter/bounce. (Reference value: 20ms) Also, do not apply external shock to the switch as chatter may occur.

LED illuminated switches

- LED modules and illumination units may vary in illumination colors and illuminance.
An LED lamp is built into the contact block and cannot be replaced.

CAUTION

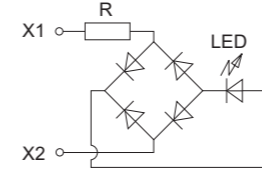
- Do not expose the switch to excessive shock and vibration, otherwise the switch may be deformed or damaged, causing malfunction or operation failure.
Be sure to observe the operating ambient temperature. Ambient operating temperature is the temperature around the product. Check the ambient temperature when using the product.
Do not disassemble, repair, or modify the power supplies.
Handle color may vary on the production lot.
The resin may discolor if left in a high temperature environment.
Do not install the following environment.
(1) Where this product is exposed to high-pressure water.
(2) Where dust.
(3) Where safety and reliability may be impaired by corrosive, volatile, flammable or chemicals gasses, etc.
(4) Where strong magnetic fields or strong electric fields are generated.
(5) Where flammable substances are generated or exist.
(6) In the freezer, cooler outlets, etc., where there is a risk of condensation or freezing.
(7) Where ozone, radiation, or ultraviolet rays may impair safety or reliability.

4 Contact ratings

Table with columns: Rated insulation voltage (Ui), Rated current (Ith), Rated operating voltage (Ue), and columns for 30V, 125V, and 250V with rows for Main contact and Monitor contact under AC and DC load conditions.

5 LED illumination ratings

Table with columns: Rated voltage, Coil voltage range, and Rated current. Values: 24V AC/DC, 24V AC/DC ±10%, 10mA.

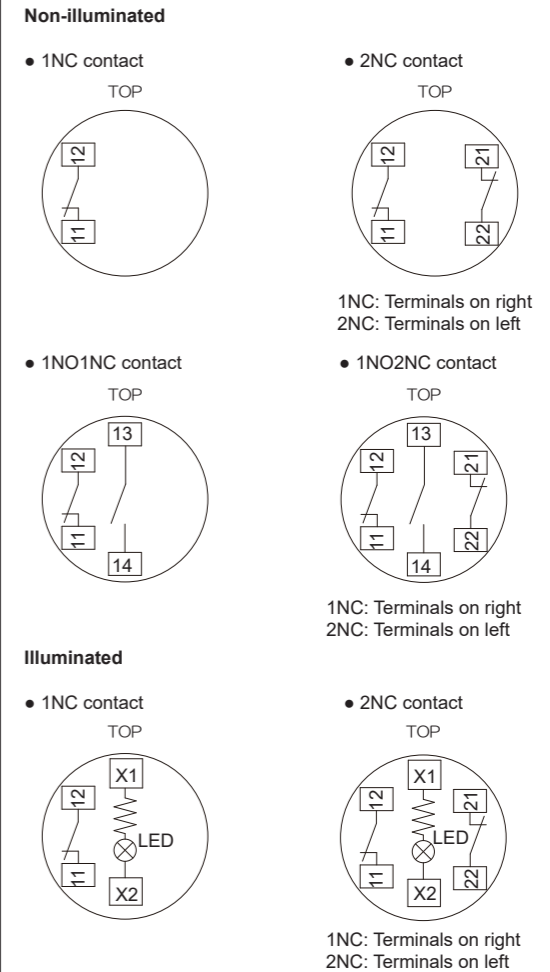


6 Performance specifications

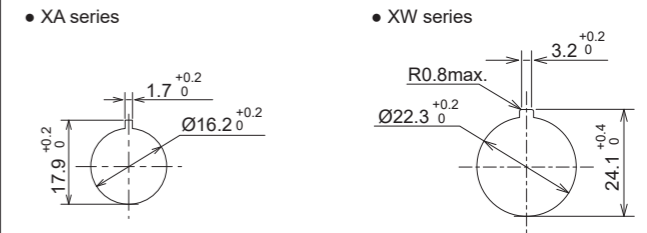
Table of performance specifications including: Applicable standards (IEC60947-1, EN60947-1, JIS C 8201-1, etc.), Standard operating conditions (Operating temperature, humidity, storage temperature), Minimum force required for direct opening action (60N), Contact resistance (50mΩ maximum), Mechanical durability (250,000 operations minimum), Electrical durability (100,000 operations minimum), LED life (60,000 hours), Shock resistance, Vibration resistance, and Panel protection.

Note1: Products other than those with red button specifications are excluded from the button color requirements of the relevant standard.
Note2: WR(White/red illuminated) type should be used with red illumination based on ISO13850.
Note3: Not a guaranteed value. The actual life depends on operating environments and conditions.
Note4: The protective structure is based on the test conditions of IEC60529, ISO20653, and JIS C 0920.

7 Terminal arrangement (Bottom view)



8 Mounting hole layout



9 Precaution for disposal

- Dispose of this product as an industrial waste.

IDEC CORPORATION

Manufacturer: IDEC CORPORATION
2-6-64 Nishimiyahara, Yodogawa-Ku, Osaka 532-0004, Japan
EU Authorized Representative: APEM SAS
55, Avenue Edouard Herriot BP1, 82303 Caussade Cedex, France
WE IDEC CORPORATION 2-6-64, Nishimiyahara, Yodogawa-Ku, Osaka 532-0004, Japan declare under our sole responsibility that the product: Description: Emergency Stop Switches Model No. XA1E/XW1E Series
Applicable Standard(s): EN IEC 63000, EN 60947-5-5
UK Authorized Representative: APEM COMPONENTS LIMITED
Drakes Drive, Long Crendon, Buckinghamshire, HP18 9BA, UK
Applicable UK Directive: Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101), Supply of Machinery (Safety) Regulations 2008 (S.I. 2008/1597), The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012/3032)
Applicable Standard(s): EN 60947-5-5, EN IEC 63000