IDEC

SPECIFICATIONS

No. ISA4116B

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φ 22 XW SERIES EMERGENCY STOP
PUSHBUTTON SWITCH(MECHANICAL INDICATOR)
TYPE XW1E—LV4TG□■Q4Δ R

Contact arrangement

Terminal style

1. Applicable standard JIS C 8201-5-1, JIS C 8201-5-5

IEC60947-5-1, EN60947-5-1 (TUV Approval) IEC60947-5-5, EN60947-5-5 (TUV Approval)

UL991, NFPA79, EN418

UL508 (UL Listing)

CSA C22.2 No.14 (c-UL Listing)

GB/T14048.5 (CCC Certified)

Screw terminal type

2. Operating conditions

3

(4) Pollution degree

3. Contact ratings

(1) Rated insulation voltage 250V (Screw terminal)

(2) Thermal current 5A

(3) Rated operating voltage

and rated operating current

Main contact (NC contact), Monitor contact (NO contact)

Rated operating voltage (Ue)				30V	125V	250V
		Α	Resistive load (AC12)	-	5A	3A
Rated operating current (Ie)	Main contact	С	Inductive load (AC15)	-	3A	1.5A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		С	Inductive load (DC13)	1A	0.22A	0.1A
	Monitor contact	Α	Resistive load (AC12)	-	1.2A	0.6A
		С	Inductive load (AC14)	-	0.6A	0.3A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		С	Inductive load (DC13)	1A	0.22A	0.1A

 The operating current is classified according to the JIS C 8201-5-1-1999 making and breaking current capacities

(4) Minimum applicable load (reference value) 5V AC/DC, 1mA

(Operating area may vary according to the operating conditions and load types.)

4. LED illuminated unit ratings

(1) Rated insulation voltage 60V

(2) Rated voltage 24V AC/DC

(3) Operating voltage $24V \pm 10\%$ AC/DC

(4) Thermal current 5mA

5. Constructions

(1) Outside view See attached sheet

(2) Latching Push lock (Safety-lock mechanism)

(3) Resetting Pull reset or Turn reset. It is possible either way

(4) Degree of protection IP65/IP67 (IEC60529)

Terminal Protection:IP20(Screw terminal, when using XW9Z-VL2MF)

(5) Contact arrangement - ($\square \blacksquare$) 1b(01), 2b(02), 3b(03), 4b(04)

(7) Terminal style − (△) M3 screw terminal/IP20type (MF),

M3 screw terminal/with terminal cover type (M)

(8) Connectable cable

(a) Screw terminal type 0.75 to 1.25mm² maximum (AWG 18 to 16)

(9) Panel thickness 1 to 4mm (10) Panel cut-out ϕ 22.3 $^{+0.4}$ mm (11) Mounting nut torque tightening 2.0 N·m

6. Characteristics

(1) Contact resistance $50m \Omega \min (initial value)$

(2) Operation force Push lock: 32N

Pull reset: 21N Turn reset: 0.27N·m

(3) Minimum force required for direct opening action 80N

(4) Minimum operator stroke required for direct opening action 4.0mm

(5) Maximum operator stroke 4.5mm

(6) Insulation resistance $100M\Omega$ maximum (measured with a 500V DC megger)

(7) Impulse withstand voltage 2.5kV (Illumination parts:0.8kV)

(8) Over voltage category II

(9) Vibration resistance

(a) Operating extremes Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s²
(b) Damage limits Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s²

(10) Shock resistance

(a) Operating extremes
 (b) Damage limits
 150 m/s²
 1000 m/s²

(11) Short-circuit protective device 10A, 250V fuse (Type aM IEC60269-1/IEC60269-2)

(12) Conditional short-circuit current(13) Weight1000AApprox.72g

7. Life

(1) Mechanical life (without load) 250000 operation minimum

(Operating frequency: 900 operations/hour maximum)

(2) Electrical life (rated load)

(a) Rated load 100000 operation minimum

(Operating frequency: 900 operations/hour maximum)

(b) When the load is 24V · 100mA AC/DC 250000 operation minimum

(Operating frequency: 900 operations/hour maximum)