## IDEC

## **SPECIFICATIONS**

No. ISA4021B

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 $\phi$  22 XW SERIES EMERGENCY STOP PUSHBUTTON SWITCH(MECHANICAL INDICATOR) TYPE XW1E-BV4TG  $\square$   $\triangle$  R

Contact arrangement

Button colorTerminal 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)

2. Operating conditions

(4) Pollution degree 3

3. Contact ratings

(1) Rated insulation voltage 250V

(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	C	Inductive load (AC15)	-	3A	1.5A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		C	Inductive load (DC13)	1A	0.22A	0.1A
		Α	Resistive load (AC12)	-	1.2A	0.6A
	Monitor contact	C	Inductive load (AC14)	-	0.6A	0.3A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		C	Inductive load (DC13)	1A	0.22A	0.1A

Note) 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 DC, 1mA

4. 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 — (□■) 1NC(01), 2NC(02), 3NC(03), 4NC(04)

(□: monitor contact ■: main contact) 1NO-1NC(11), 1NO-2NC(12), 1NO-3NC(13), 2NO-2NC(22)

(6) Button style  $\phi$  38Mushroom

(7) Button color Red

Terminal style –  $(\Delta)$  M3 screw terminal/IP20type (MF),

M3 screw terminal/with terminal cover type (M)

(8) Applicable wire

(a) Solder terminal 0.75 to 1.25mm<sup>2</sup> maximum (AWG 18 to 16 maximum)

(b) Solder terminal/PC board terminal 1.25mm<sup>2</sup> maximum (AWG 16 maximum)

(9) Panel thickness 0.8 to 6mm (10) Panel cut-out  $\phi$  22.3  $^{+0.4}$ mm (11) Mounting nut torque tightening 2.0 N·m

5. Characteristics

(1) Contact resistance  $50m\Omega$  maximum (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  $100M\Omega$  minimum (measured with a 500 V DC megger)

(7) Impulse withstand voltage
 (8) Over voltage category

(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 150 m/s<sup>2</sup>
(b) Damage limits 1000 m/s<sup>2</sup>
(11) Short-circuit protective device 10A,250V fuse

(Operating class aM according to IEC 60269-1 and IEC 60269-2)

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

6. 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)