

XN SERIES EMERGENCY STOP

PUSHBUTTON SWITCH

TYPE XN5E—BV4□■M△※ (Flush Bezel)

Contact arrangement — Button color — Terminal style

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1. Applicable standard

JIS C 8201-5-1

IEC60947-5-1, EN60947-5-1

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

UL508 (UL Recognition)

UL991,NFPA79 (UL Recognition)

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

GB/T14048.5(ccc Certified)

2. Operating conditions

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|-------------------------|-----------------------------|
| (1) Ambient temperature | -25 to +60°C (no freezing) |
| (2) Relative humidity | 45 to 85% (no condensation) |
| (3) Storage temperature | -45 to +80°C (no freezing) |
| (4) Pollution degree | 3 |

3. Contact ratings

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|------------------------------|------|
| (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
Rated operating current (Ie)	Main contact	A	Resistive load (AC12)	-	5A	3A
		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
	Monitor contact	A	Resistive load (AC12)	-	1.2A	0.6A
		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

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

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|---|---|
| (4) Minimum applicable load (reference value) | 5V AC/DC, 1mA (Subject to operating conditions and load types.) |
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4. Constructions

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| (1) Outside view | See attached sheet |
| (2) Operation type | Push lock pull or turn reset |
| (3) Degree of protection | Operator:IP65 (IEC60529)
Terminal:IP20(When XW9Z-VL2MF is installed) |
| (4) Contact arrangement — (□■)
(□: monitor contact ■: main contact) | 1b(01), 2b(02), 3b(03), 4b(04), 1a-1b(11), 1a-2b(12),
1a-3b (13), 2a-2b (22) |
| (5) Button style | Mushroom (φ40 button) |
| (6) Button color — (※) | Red(R), Bright red(RH) |
| (7) Terminal style — (△) | M3 screw terminal/IP20type (MF),
IP20 Fingersafe terminal (F), w/Terminal cover(blank) |

(8) Connectable cable	0.75 to 1.25mm ² maximum (AWG 18 to 16)
(9) Panel thickness	1 to 5mm
(10) Panel cut-out	$\phi 30.5^{+0.5}\text{mm}$
(11) Locking ring torque tightening	2.5 N·m
(12) Weight (Approx.)	89g

5. Characteristics

(1) Contact resistance	50m Ω minimum (initial value)
(2) Minimum force required for direct opening action	80N
(3) Minimum operator stroke required for direct opening action	4.0mm
(4) Maximum operator stroke	4.5mm
(5) Insulation resistance	100M Ω maximum (measured with a 500V DC megger)
(6) Impulse withstand voltage	2.5kV (illumination department:0.8kV)
(7) Over voltage category	II
(8) Vibration resistance	
(a) Operating extremes	Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s ²
(b) Damage limits	Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s ²
(9) Shock resistance	
(a) Operating extremes	150 m/s ²
(b) Damage limits	1000 m/s ²
(10) Short-circuit protective device	10A, 250V fuse (Type aM IEC60269-1/IEC60269-2)
(11) Conditional short-circuit current	1000A

6. Life

(1) Mechanical life (without load)	250,000 operation minimum (Operating frequency: 900 operations/hour maximum)
(2) Electrical life	
(a) At rated load	100,000 operation minimum (Operating frequency: 900 operations/hour maximum)
(b) When the load is 24V·100mA AC/DC	250,000 operation minimum (Operating frequency: 900 operations/hour maximum)