


XN SERIES EMERGENCY STOP

PUSHBUTTON SWITCH

TYPE XN4E-TL4□■Q4△R (Illuminated Push ON)

Contact arrangement  Terminal style

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1. Applicable standard

JIS C 8201-5-1, JIS C 8201-5-5
 IEC60947-5-1, EN60947-5-1
 IEC60947-5-5
 EN60947-5-5 (TUV Approval)
 UL508, UL60947-5-5 (UL Listing)
 UL991, NFPA79
 CSA C22.2 No.14, IEC60947-5-5 (c-UL Listing)
 GB/T14048.5(CCC Certified)

2. Operating conditions

- | | |
|-------------------------|-----------------------------|
| (1) Ambient temperature | -25 to +55°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

- | | |
|------------------------------|------|
| (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.) |
|---|---|

4. LED illuminated unit ratings

- | | |
|------------------------------|----------------|
| (1) Rated insulation voltage | 60V |
| (2) Rated voltage | 24V AC/DC |
| (3) Operating voltage | 24V ±10% AC/DC |
| (4) Thermal current | 5mA |

5. Constructions

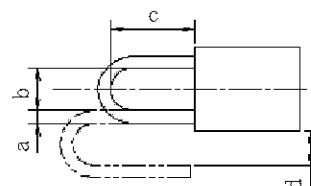
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|--------------------------|---|
| (1) Outside view | See attached sheet |
| (2) Operation type | Push lock turn reset with lockout by padlock |
| (3) Degree of protection | Operator:IP65 (IEC60529)
Terminal:IP20(When XW9Z-VL2MF is installed) |

- (4) Contact arrangement— (□ ■) 2b(02),3b(03), 1a-2b(12)
 (□: monitor contact ■: main contact)
- (5) Button style and color Mushroom (φ 44 button), Red
- (6) Terminal style— (△) M3 screw terminal/IP20type (MF),
 M3 screw terminal/with terminal cover type (M)
- (7) Connectable cable 0.75 to 1.25mm² maximum (AWG 18 to 16)
- (8) Panel thickness 1 to 6mm
- (9) Panel cut-out φ 30.5^{+0.5}mm
- (10) Locking ring torque tightening 2.5 N·m
- (11) Weight (Approx.) 120g

6. Characteristics

- (1) Contact resistance 50m Ω minimum (initial value)
- (2) Operation force Push lock: 32N, Turn reset: 0.4N·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 100MΩ maximum (measured with a 500V DC megger)
- (7) Impulse withstand voltage 2.5kV (illumination department: 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 150 m/s²
- (b) Damage limits 1000 m/s²
- (11) Short-circuit protective device 10A, 250V fuse (Type aM IEC60269-1/IEC60269-2)
- (12) Conditional short-circuit current 1000A
- (13) Padlock and Hasp for weight and size
- (a) Padlock size

a	7mm maximum
b	19mm minimum
c	39mm minimum
d note1	15mm minimum



Note 1) Dimension d is 6mm or more when attaching a padlock from the side of a switch.

- (b) Recommended Hasp

Manufacture	Type
Shinwa Co,Ltd	SHH002
PANDUIT corp.	PSL-HD3 PSL-1A
Master Lock	420,421

- (c) The total weight of the padlock and hasp 1500g maximum

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)