Part Numbers

HE3B-M2

HE3B-M2PY

HE3B-M2PB

HE3B-M2PN1

UL508 (UL recognized), CSA C22.2, No. 14 (c-UL recognized)

IEC/EN 60947-5-1, IEC/EN 60947-5-8 (TÜV approval)

HE3B ø16mm Redundant Contact Switch

Key features:

Part Numbers

- 3-position functionality (OFF ON OFF) as required for manual robotic control
- Provides a high level of safety based on human behavioral studies that determine personnel may squeeze OR let go when presented with a panic situation
- Contacts will not re-close when released from Off→On (3→1) (per IEC60204-1; 9.2.5.8)

Without Rubber Cover

With Rubber

Cover

Yellow

Black

Gray

- Multiple contacts for enhanced reliability
- Snap acting contacts from position 1 to 2
- Available with or without rubber cover



Style



Color

Yellow

Black

Grav

Part Number

MT-001

Part Number

HE9Z-D3Y

HE9Z-D3B

HE9Z-D3N1

Material

Metal

Accessories

Lock Nut Tool

Replacement Rubber Cover

Appearance

Appearance

Overview

XW Series E-Stops Inte

Material

Silicon Rubber

NBR/PVC

polyblend

Conforming to Standards

Specifications

Application Standards	ISO 12100-1, -2, EN 12100-1, 2, IEC 60204-1 / EN 60204-1 ISO 11161 / prEN 11161, ISO 10218 / EN 775 ANSI/RIA R15.06, ANSI B11.19	
Operating Temperature	-25 to +60°C (no freezing)	
Operating Humidity	45 to 85% RH maximum (no condensation)	
Storage Temperature	-40 to +80°C (no freezing)	
Pollution Degree	2 (inside panel, terminal side) 3 (outside panel, operator side)	
Contact Resistance	50mΩ maximum	
Insulation Resistance	Between live & dead metal parts: 100MΩ maximum	
	Between positive & negative live parts: 100MΩ minimum	
Impulse Withstand Voltage	1.5kV	
Operating Frequency	g Frequency 1200 operations/hour	
Mechanical Life	Position $1 \rightarrow 2 \rightarrow 1$: 1,000,000 operations minimum	
	Position $1 \rightarrow 2 \rightarrow 3 \rightarrow 1$: 100,000 operations minimum	

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Specifications con't

XW Series E-Stops

Interlock Switches

Electrical Life		100,000 operations minimum at rated load		
Shock Resistance	Operating Extremes	150m/s ² (15 G)		
	Damage Limits	500m/s² (50 G)		
Vibration Resistance	Operating Extremes	5 to 55Hz, applitude 0.5mm minimum		
	Damage Limits	16.7Hz, applitude 1.5mm minimum		
Terminal		0.110" quick connect / solder terminal		
Recommended Wire Size		0.5mm ² maximum / 1 line (20AWG)		
Solder Heat Resistance		310 ~ 350°C / 3 seconds maximum		
Terminal Pulling Strength		20N minimum		
Recommended Screw Torque		0.68 to 0.88Nm		
Degree of Protection		with rubber cover: IP65, without rubber cover: IP40 (IEC 60529)		
Conditional Short-Circuit Current		50A (125V)		
Recommended Short Circuit Protection		125V/10A fast blow fuse (IEC 60127-1)		
Circuit Opening Force		500N minimum		
Weight		without rubber cover - Approx. 14g with rubber cover - Approx. 18g		

Contact Ratings

Rated Insulation Voltage (Ui)		125V		
Thermal Current (Ith)		3A		
Rated Operating Voltage (Ue)		30V	125V	
Rated Operating Current (le)	AC	Resistive Load (AC-12)	-	1A
		Inductive Load (AC-15)	-	0.7A
	DC	Resistive Load (DC-12)	1A	0.2A
		Inductive Load (DC-13)	0.7A	0.1A
Contact Configuration		2 contacts (DPDT)		
Minimum Applicable Load		AC/DC5V 1mA reference		

3 position switch: 2 contacts, terminal no. = between NO1-C1, between NO2-C2
 Use between NO-C for OFF → On→ OFF 3 position switch (NC is not used).



Enabling Switches

Terminal Circuit Diagrams (bottom view)

C2

L C1

Circuit Diagrams

Light Curtains

398



Overview

XW Series E-Stops

Interlock Switches

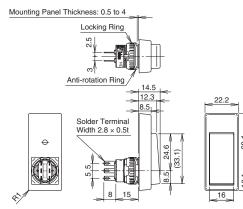
Enabling Switches

Operating Characteristics

Operating Characteristics (without rubber cover/pushing button part A and B) Position 2 Position 3 Position 1 Part A: Approx. 56N Part B Part A Part B: Approx. 14N Part A: Approx. 50N) Part B: Approx. 12N ທີ່ບໍ່ບັບບຸບທີ Operating Force (reference value) (without rubber boot) (when part A or B is pressed) : ON (closed) Part A: Approx. 10N : OFF (open) Part B: Approx. 2N ∫ $0.8^{+0.7}_{-0.2}$ $1.0^{+0.7}_{-0.2}$ 1.7+0.7 1.9 +0.7 Part A 0 Travel (mm) $2.3^{+0.7}_{-0.3}$ 3.0+0.7 $4.2^{+0.7}_{-0.3}$ 5.0 +0.4 Part B 0 ⊳ NO1-C1 Pressing (position 1 to 2 to 3) NO2-C2 NO1-C1 Releasing NO2-C2 (position 2 to 1) NO1-C1 Releasing $\langle \neg$ NO2-C2 (position 3 to 1)

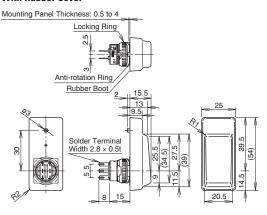
(51.2)

Dimensions (mm) Without Rubber Cover



Using rubber boot will change the operating force depending on the operating temperature.

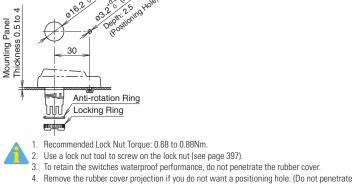
With Rubber Cover



All dimensions in mm.

Safety Control Relays

Mounting Hole Layout



the rubber cover).

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