Dverview

XW Series E-Stops

Interlock Switches

HE1B Basic Enabling Switch

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

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

Position $1 \rightarrow 2 \rightarrow 1$: 1,000,000 operations minimum

Position $1 \rightarrow 2 \rightarrow 3 \rightarrow 1$: 100,000 operations minimum

100,000 operations minimum at rated load

5 to 55Hz, amplitude 0.5mm minimum

16.7Hz, amplitude 1.5mm minimum

0.5mm² maximum / 1 line (20AWG)

HE1B-M1: M3 screw / 0.5 to 0.8Nm

IP40 (IEC 60529) excluding terminal part

250V, 10A fast blow fuse (IEC 60127-1)

260°C / 3 seconds maximum

30N minimum (position $2\rightarrow 3$)

-25 to +60°C (no freezing) 45 to 85% RH (no condensation)

-40 to +80°C (no freezing)

50mΩ maximum

100MΩ minimum

150m/s²(15G)

1000m/s²(100G)

Solder Terminal

20N minimum

50A (250V)

250N minimum

Approx. 6g

1200 operations/hour

2

2.5kV

Operating Extremes

Operating Extremes

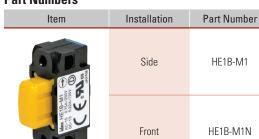
Damage Limits

Damage Limits

Key features:

- 3-position functionality (OFF ON –OFF) as required for manual robotic control
- Ideally suited for use as enabling (aka "deadman") switch on teach pendants
- 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
- Positive action contacts "On" (pos. 2) to "Off" (pos. 3) ensure no contact welding (per EN60947-5-1 / IEC60947-5-1)
- Contacts will not close when released from "Off" (pos. 3) to "Off" (pos. 1) (per IEC60204-1; 9.2.5.8)
- Small and lightweight

Part Numbers





Operating Temperature

Initial Contact Resistance

Impulse Withstand Voltage

Insulation Resistance

Operating Frequency

Mechanical Life

Shock Resistance

Vibration Resistance

Recommended Wire Size

Solder Heat Resistance

Terminal Pulling Strength

Degree of Protection

Circuit Opening Force

Recommended Screw Torque

Conditional Short-Circuit Current

Control Resistance (Operating)

Recommended Short Circuit Protection

Electrical Life

Terminal

Operating Humidity Storage Temperature

Pollution Degree



Weight

www.IDEC.com

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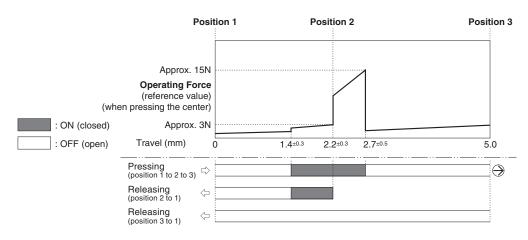
Current Ratings

Rated Insulation Voltage (Ui)			AC / DC250V		
Thermal Current (Ith)			5A		
Rated Operating Voltage (Ue)			30V	125V	250V
Rated Operating Current (le)	AC 50/60Hz	Resistive Load (AC-12)	-	ЗA	1.5A
		Inductive Load (AC-15)	-	1.5A	0.75A
	DC	Resistive Load (DC-12)	2A	0.4A	0.2A
		Inductive Load (DC-13)	1A	0.22A	0.1A
Contact Configuration			SPST-NO three position (OFF-ON-OFF)		

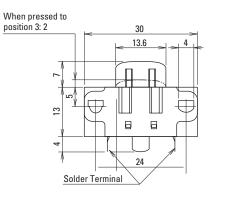
Contact Configuration

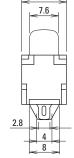
Minimum applicable load: AC/DC3V • 5mA (For reference only).

Operating Characteristics



Dimensions (mm)



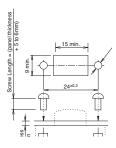


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HE1B-M1 (Side Mounting)

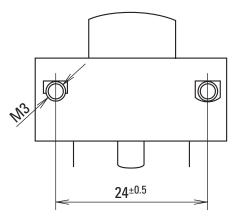
1. M3 Screw (not provided)





HE1B-M1N (Front Mounting)

1. M3 Screw (not provided) 2. Locking nut (2 pcs) included





When using a panel thicker than 2mm, the button will be lower than the surface of the panel

