Interlock Switches

HE1B Basic Enabling Switch

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

ltem	Installation	Part Number		
Hate HEIB-MI (A) Construction of the Construct	Side	HE1B-M1		
	Front	HE1B-M1N		



Specifications

Specifications				
Conforming to Standards		UL508 (UL recognized), CSA C22.2, No. 14 (c-UL recognized), IEC/EN 60947-5-1, IEC/EN 60947-5-8 (TÜV approval)		
Operating Temperature	9	-25 to +60°C (no freezing)		
Operating Humidity		45 to 85% RH (no condensation)		
Storage Temperature		-40 to +80°C (no freezing)		
Pollution Degree		2		
Initial Contact Resistance		50mΩ maximum		
Insulation Resistance		100MΩ minimum		
Impulse Withstand Voltage		2.5kV		
Operating Frequency		1200 operations/hour		
Mechanical Life		Position 1→2→1: 1,000,000 operations minimum		
		Position 1→2→3→1: 100,000 operations minimum		
Electrical Life		100,000 operations minimum at rated load		
Shock Resistance	Operating Extremes	150m/s ² (15G)		
	Damage Limits	1000m/s ² (100G)		
Vibration Resistance	Operating Extremes	5 to 55Hz, amplitude 0.5mm minimum		
VIDI audii nesistance	Damage Limits	16.7Hz, amplitude 1.5mm minimum		
Terminal		Solder Terminal		
Recommended Wire Size		0.5mm ² maximum / 1 line (20AWG)		
Solder Heat Resistance		260°C / 3 seconds maximum		
Terminal Pulling Strength		20N minimum		
Recommended Screw Torque		HE1B-M1: M3 screw / 0.5 to 0.8Nm		
Degree of Protection		IP40 (IEC 60529) excluding terminal part		
Conditional Short-Circuit Current		50A (250V)		
Recommended Short Circuit Protection		250V, 10A fast blow fuse (IEC 60127-1)		
Circuit Opening Force		30N minimum (position 2→3)		
Control Resistance (Operating)		250N minimum		
Weight		Approx. 6g		



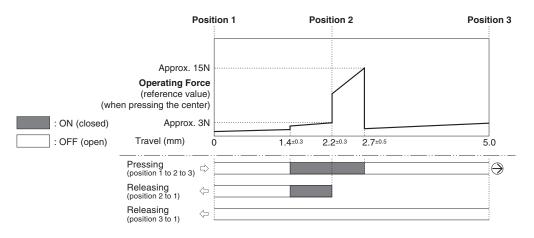
Current Ratings

Rated Insulation Voltage (Ui)		AC / DC250V				
Thermal Current (Ith)			5A			
Rated Operating Voltage (Ue)			30V	125V	250V	
Rated Operating Current (le) DC	A.C. E0/C011-	Resistive Load (AC-12)	_	3A	1.5A	
	AC 30/00HZ	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)				

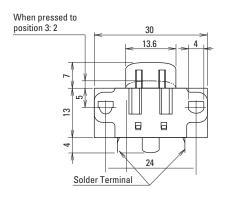
Enabling Switches

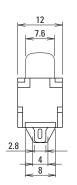
Minimum applicable load: AC/DC3V • 5mA (For reference only).

Operating Characteristics



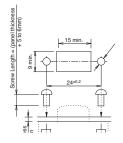
Dimensions (mm)





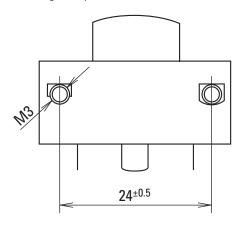
HE1B-M1 (Side Mounting)

- 1. M3 Screw (not provided)
- 2. Thread built in



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Pushbutton Switches category:

Click to view products by Idec manufacturer:

Other Similar products are found below:

8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7340 A3U-TMW-A2C-5M A595 12037A2ULCSA ABD122N-B 1211390004