Emergency Stop Switches (Unibody Type) Specifications

Contact Ratings

Rated Insulation Voltage (Ui)			250V		
Rated Thermal Current (Ith)			10A		
Rated Operational Voltage (Ue)			24V	110V	220V
	AC	Resistive Load (AC-12)	6A	ЗА	ЗА
Rated 50/60 Hz Operational		Inductive Load (AC-15)	6A	ЗА	ЗА
Current	DC	Resistive Load (DC-12)	6A	2A	1A
		Inductive Load (DC-13)	1.5A	0.3A	0.15A

Note: The operational current represents the classification by making and breaking currents (IEC 60947-5-1). Minimum applicable load (reference value): 3V AC/DC, 5 mA (Applicable range may vary with operating conditions and load types.)

LED Lamp Ratings

Unit Rated	LED Lamp				
Operating Voltage	Type No.	Rated Voltage	Rated Current		
6V AC/DC	LSTD-6R	6V AC/DC ±10%	14 mA		
12V AC/DC	LSTD-1R	12V AC/DC ±10%	10 mA		
24V AC/DC	LSTD-2R	24V AC/DC ±10%	10 mA		

Incandescent Lamp Ratings

Unit Rated	Incandescent Lamp		
Operating Voltage	Type No.	Wattage	
6V AC/DC	LS-6	1W (6.3V)	
12V AC/DC	LS-8	1W (18V)	
24V AC/DC	LS-3	1W (30V)	

Specifications

Operating	-25 to +60°C (no freezing)		
Temperature	Illuminated units: -25 to +50°C		
Storage Temperature	-40 to +80°C		
Operating Humidity	45 to 85% RH (no condensation)		
Contact Resistance	50 mΩ maximum (initial value)		
Insulation Resistance	100 MΩ minimum (500V DC megger)		
	Between live and dead metal parts		
Dielectric Strength	Contacts: 2,500V AC, 1 minute		
	Illuminated parts: 1,000V AC, 1 minute		
Vibration Resistance	Damage limits: 60 m/s ²		
VIDIALIOIT NESISTATICE	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm		
Shock Resistance	Damage limits: 1,000 m/s ²		
SHOCK RESISTANCE	Operating extremes: 100 m/s ²		
Operating Frequency	900 operations/h		
	Mechanical: 250,000 operations minimum		
Life	Electrical: 100,000 operations minimum		
	(at 900 operations/h, duty ratio 40%)		
Degree of Protection	IP65		
Terminal Style	M3.5 screw		

Applicable Standards and Approvals

Safety Standards	File No. or Organization
UL508	UL Listing File No. E55996
CSA C22.2 No. 14	c-UL (File No. E55996)
EN60947-5-5	DEMKO approved

Pushlock Turn Reset Switches (Unibody Type)

Shape	Contact	Type No.	Button Color
ø40mm Mushroom Pushlock Turn Reset HW1E-BV4	1NO-1NC	HW1E-BV411R	
c. LINEB D C €	2NC	HW1E-BV402R	Red only

- When pressed, the button is held depressed. The button is released by turning clockwise.
- Terminal cover HW-VL7 is supplied with the switch.

Ø22 HW Series Emergency Stop Switches

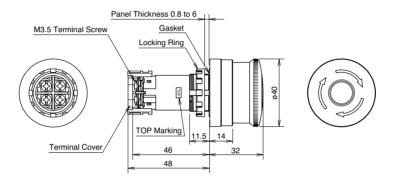
Illuminated Pushlock Turn Reset Switches (Unibody Type)

Shape	Lamp	Contact	Type No.	Lens Color
ø40mm Mushroom Pushlock Turn Reset HW1E-LV4		1NO-1NC	HW1E-LV411Q0R	
culus D C E	Without Lamp	2NC	HW1E-LV402Q0R	Red only

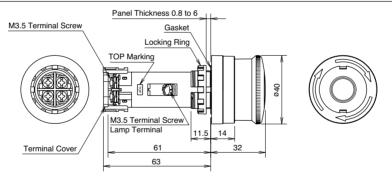
- When pressed, the button is held depressed. The button is released by turning clockwise.
- The illuminated pushlock turn reset switch does not contain a lamp. Order LED or incandescent lamps separately. For lamps, see page 43.
- Terminal cover HW-VL7 is supplied with the switch.

Dimensions

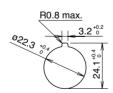
• HW1E-BV4



• HW1E-LV4



Mounting Hole

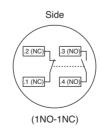


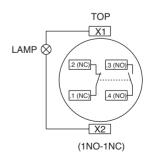
Determine the minimum mounting hole centers in consideration of convenience for wiring.

Terminal Arrangement (Bottom View)

• HW1E-BV4

• HW1E-LV4





All dimensions in mm.

Replacement Parts

Name	Type No.	Ordering Type No.	Package Quantity	Remarks
Terminal Cover	HW-VL7	HW-VL7PN10	10	Used on HW1E emergency stop switches for preventing electrical shocks. The HW-VL7 terminal cover is supplied with the HW1E.