

# Ø30 Series

## Control Units



# ø30 HN Series Emergency Stop Switches

## 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	
Rated Operational Current	AC 50/60 Hz	Resistive Load (AC-12)	6A	3A	3A
		Inductive Load (AC-15)	6A	3A	3A
	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 Operating Voltage	LED Lamp		
	Type No.	Rated Voltage	Rated Current
24V AC/DC	LSTD-2R	24V AC/DC ±10%	10 mA

### Incandescent Lamp Ratings

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



### Specifications

Operating Temperature	–25 to +60°C (no freezing) Illuminated units: –25 to +55°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)
Dielectric Strength	Between live and dead metal parts
	Contacts: 2,500V AC, 1 minute Illuminated parts: 1,000V AC, 1 minute
Vibration Resistance	Damage limits: 60 m/s <sup>2</sup>
	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm
Shock Resistance	Damage limits: 1,000 m/s <sup>2</sup>
	Operating extremes: 100 m/s <sup>2</sup>
Operating Frequency	900 operations/h
Life	Mechanical: 250,000 operations minimum
	Electrical: 100,000 operations minimum
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
 	1NO-1NC	HN1E-BV411R	Red only
	2NC	HN1E-BV402R	

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

## Illuminated Pushlock Turn Reset Switches (Unibody Type)

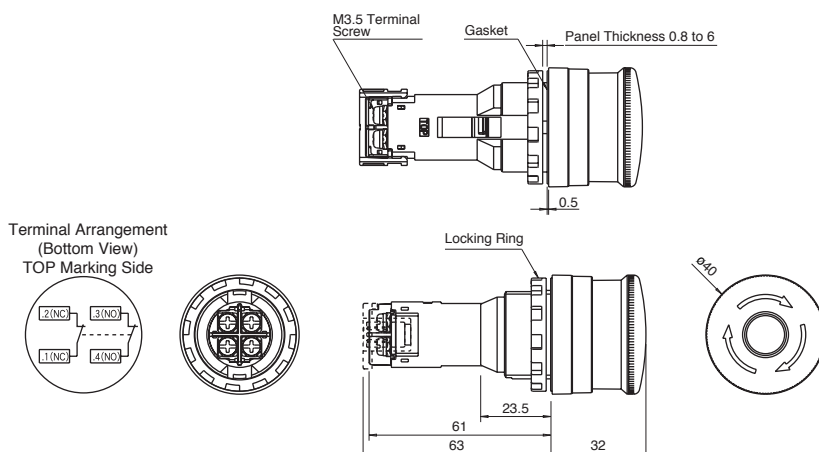
Shape	Lamp	Contact	Type No.	Lens Color
 	Without Lamp	1NO-1NC	HN1E-LV411Q0R	Red only
		2NC	HN1E-LV402Q0R	

- 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 63.
- Terminal cover HW-VL7 is supplied with the switch.

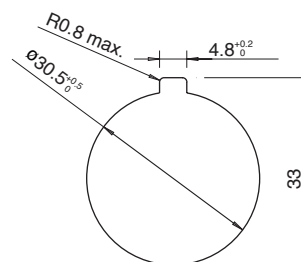
## ø30 HN Series Emergency Stop Switches

## Dimensions

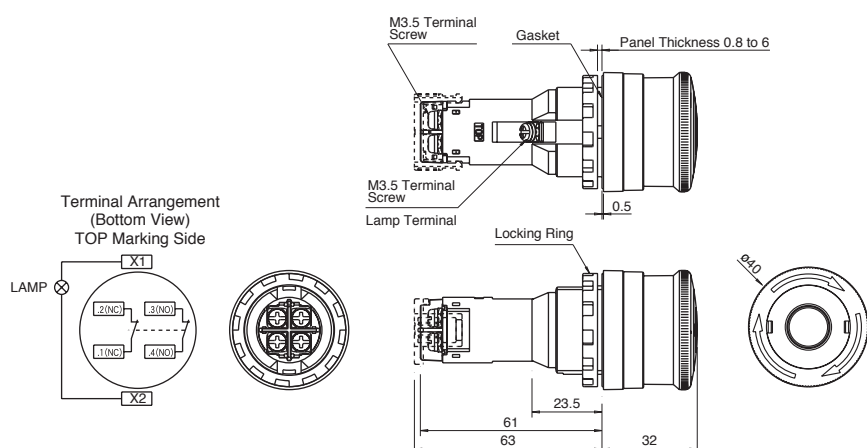
- HN1E-BV4



## Panel Cut-Out



- HN1E-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 HN1E emergency stop switches for preventing electrical shocks. The HW-VL7 terminal cover is supplied with the HN1E.

## Nameplates

Shape	Type No.	Legend	Package Quantity	Remarks
	HNAV-0	(blank)	1	Background: Yellow Legend: Black Applicable panel thickness: 0.8 to 4.5 mm Material: Polyamide Legend "EMERGENCY STOP" is indicated outside a ø44mm circle.
	HNAV-27	EMERGENCY STOP		

## Accessory

Shape	Material	Type No.	Package Quantity	Remarks
	Metal	TWST-T1	1	<ul style="list-style-type: none"> <li>Used for tightening the locking nut.</li> <li>Tighten the locking nut to a torque of 2.0 to 2.5 N·m.</li> </ul> 