IDEC Miniature Switches & Pilot Devices

HA1B/HA1E E-Stop

Miniature Switches and Pilot Devices: 5/8"(16mm)

Key features of HA1B/HA1E Push lock Turn Reset include:

- PCB or Solder Terminals
- Quick Release Contact Blocks
- Positive Action Contacts
- 1 or 2 form B (SPST-NC) Contacts
- IP65 Protection
- 16mm Mounting Hole
- Tamper Proof Construction



Contact Ratings











EMERGENCH

| Contact Form | | 1 or 2 form B (2-SPST-NC) | |
|----------------------------------|---|--|--|
| Termination | | PCB or Solder Terminal | |
| Contact Material | | Silver | |
| Applicable St | tandards | EN60947-5-1, UL-508, CSA 22.2. No. 14 | |
| Rated Insulation Voltage | | 250V | |
| Degree of Protection | | IP65, when mounted in an enclosure | |
| | hort-Circuit Current it Protective Device | 50 A (at 250V) 10A 250V Fuse, operation class aM according to IEC269-1 and IEC269-2 | |
| | Positive opening travel | 3.4mm | |
| Positive Opening Operation | Minimum force required to achieve positive opening operation of all break contacts. | 10.3 N (2 form B contacts) | |
| | Maximum travel including travel beyond the minimum travel position | 5.5mm | |

24VDC/2A

120VAC/3A

| Ø 60mn | |
|--------|-----------|
| s | тор |
| | Part Numb |

| Part Number |
|-------------|
| HAAV-0 |
| HAAV-27 |
| |

Part Numbers: Positive Action E-Stop

Pollution Degree

Maximum frequency of actuation

| Appearance Operation | | | | Terminal Style | |
|----------------------|-------------------------|----------------------|--|--------------------------|-------------|
| | | Operation | Contact | | Solder Tab |
| E-Stop | | DPST(NC (2 form B | | HA1B-V2E2R | HA1B-V2E2VR |
| | Pushlock/ Turn Reset | Short Body | SPST-NC (1 form B) DPST-NC (2 form B) | HA1E-V2S1R HA1E-V2S2R | - |

1,200 operations/hour

ton is nonovable, availin red and as iplete assembled only.

Part Number: Buzzers (IP40)

| Appearance | | Operating Voltage | Terminal Style | |
|--------------------|--|-----------------------|----------------|-----------|
| | | Operating Voltage | Solder/Tab | PCB |
| Buzzer-Rectangular | | 6V AC/DC ± 10% | LA3Z-1X2 | LA3Z-1X2V |
| | | 12V to 24 AC/DC ± 10% | LA3Z-1X4 | LA3Z-1X4V |

Frequency: 2khz ± 500 hz Amplitude: 80db at 0.1m Beeping: Adjustable from steady tone to 600 beeps per minute.

IDEC Miniature Switches & Pilot Devices

Pilot Lights (Sub-Assembled)

Terminals + Safety Lever Lock + Lamp Holder + Lamp + Operator + Lens = Completed Unit















| Dart | Num | bers: | One | ratore |
|------|-------|--------|-----|--------|
| Part | INUIT | ibers: | Ope | rators |

| Part Numbers: Operators | | | | |
|-------------------------|-------------|--|--|--|
| Style | Part Number | | | |
| Round | | | | |
| | LA1P-0 | | | |
| Square | | | | |
| | LA2P-0 | | | |
| Rectangular | | | | |
| | LA3P-0 | | | |
| Oversize Round | | | | |
| | HA1P-0 | | | |
| Oversize Square | | | | |
| | HA2P-0 | | | |
| Oversize Round Unibody | | | | |
| | HA1P-00 | | | |
| Oversize Square Unibody | | | | |
| E. P. | HA2P-00 | | | |

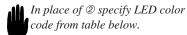
Part Numbers: Lenses

| Style | Part Number | |
|----------------------------------|-------------|--|
| Round | AL6M-LK3-② | |
| Square | AL6Q-LK3-@ | |
| Rectangular | AL6H-LK3-@ | |
| Oversize Round | HA1A-P1-② | |
| Oversize Square | HA2A-P1-@ | |
| In place of 2 specify lens color | | |

In place of @ specify lens color code.

Part Numbers: Lamps

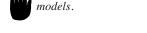
| Style | Voltage | Part Number |
|--------------|---|--|
| LED | 5V DC 6V AC/DC 12V AC/DC 24V AC/DC 120 V AC | LFTD-52 LFTD-62 LFTD-12 LFTD-22 LFTD-H22 |
| Incandescent | 6V AC/DC 12V AC/DC 24V AC/DC | LH-06 LH-14 LH-28 |



Part Numbers: Terminals

| Turt Ivanibors. Torrinias | | | |
|---------------------------|---------------|---------|--|
| Appearance | Solder Tab | РСВ | |
| | HA-C00 | HA-C00V | |

Not required for unibody



Part Number: Lamp Holder

| Appearance | Part Number |
|------------|-------------|
| | HA9Z-AH |

Part Number: Safety Lever Lock

| Appearance | Part Number |
|------------|-------------|
| | HA9Z- LS |

2 Lens/LED Color Codes

| © | | | | |
|--------|------|--|--|--|
| Color | Code | | | |
| Amber | Α | | | |
| Green | G | | | |
| Red | R | | | |
| Blue | S | | | |
| Yellow | Υ | | | |

IDEC Miniature Switches & Pilot Devices

Accessories

| Part | | Specifications | | Part Number | Notes |
|--------------------------------------|--|--|---|--|---|
| Ring Wrench | | Made of metal | | MT-001 | Used for tightening the plastic locking ring when installing the L6 series unit on a panel. Tightening torque should not exceed 9kgf cm when tightening a locking ring. |
| Lamp Holder Tool (Made of Rubber) | | Made of rubber. Used for removing and replacing LED and incandescent lamps in illuminated units. | | OR-44 | Rubber tool used for replacing LED and incandescent lamps. |
| Lens Removal Tool | | For Illuminated pushbuttons and pilot lights. | | MT-101 | Used for removing the lens or button from the housing. |
| LED Lamp | DE LA PARTIE DE LA | 5V DC 6V AC/DC 12V AC/DC 24V AC/DC 120V AC | | LFTD-520 LFTD-620 LFTD-120 LFTD-220 LFTD-H220 | T 1-3/4 miniature flange base. In place of ② specify LED Color Code (see page A2-43). |
| Incandescent Lamp | | 6V AC/DC 12V AC/DC 24V AC/DC | | LH-06 LH-14 LH-28 | 0.5W, T 1-3/4 miniature flange base |
| Switch Guard | Sa | 90 degrees open- | Round/Square | AL-K6 | Prevents inadvertent switch operation. IP40 dust-tight |
| | ing maintained | Rectangular | AL-KH6 | rated. | |
| | 180 degrees | Round/Square | AL-K6SP | Provents inadvertent quitab energtion IPSE siltight | |
| | opening, spring return | Rectangular | AL-KH6SP | Prevents inadvertent switch operation. IP65 oiltight rated. | |
| | | return | Oversize Round/Sq | HA9Z-K1 | |
| | | For round units | | AL-D6 | |
| Dust-proof Cover | For square units | | AL-DQ6 | Provides extra level of sealing for "front-panel" portion of switches. (Not applicable for units with oversize lenses or buttons). | |
| | For rectangular units | | AL-DH6 | | |
| Terminal Cover | All removable | | | | |
| | | Made of white nylon | contacts | H6-VL2 | Covers terminals to prevent possible electric shock. |
| | | | Unibody Pilot Lights | H6-PVL | |
| Mounting Hole Plug | Rubber | | AL-B6 | Fills unused panel cutouts. Made of nitrile rubber. Push-in installation from front of panel. IP65 (oiltight) rated. | |
| | Will The State of | Aluminum | | AL-BM6 | Fills unused panel cutouts. Made of aluminum. Screw- on locking ring from inside of panel. IP65 (oiltight) rated |
| Replacement Keys | 0 | for LA1K (#132) | | AS6-SK | |
| | for HA1K (#231) | | KG9Z-SK | Pair of keys. | |
| Replacement Engraving Inserts | | | Round Square Rectangle Oversize Round Oversize Square Mushroom | AL6M-W AL6Q-W AL6H-W HA9Z-P1-W HA9Z-P2-W HA9Z-P13-W | |
| Replacement Locking Ring | | All models | | HA9Z-LN | |
| Replacement Anti-Rotation Ring | | | L6 standard AL6-LP | | Provente retation of quitebes in asset |
| | | | L6 oversize | HA9Z-LP | Prevents rotation of switches in panel. (included with all assembled switches) |
| Replacement Selector Inserts | 1 | | 1 | HA9Z-HC1-① | Applicable to round oversize selectors only ① = (G, R, S, W, Y) |
| Replacement Safety Lever Lock | O | | | HA9Z-LS | |