## HE3B ø16mm Redundant Contact Switch

## Key features:

- 3-position functionality (OFF - ON - OFF) as required for manual robotic control
- 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
- Contacts will not re-close when released from Off $\rightarrow$ On ( $3 \rightarrow 1$ ) (per IEC60204-1; 9.2.5.8)
- Multiple contacts for enhanced reliability
- Snap acting contacts from position 1 to 2
- Available with or without rubber cover



## Part Numbers

|  |  | Part Numbers |
| :--- | :--- | :--- |
|  | Without Rubber Cover | HE3B-M2 |

## Accessories

Replacement Rubber Cover

| Appearance | Color | Part Number | Material |
| :---: | :---: | :---: | :---: |
|  | Yellow | HE9Z-D3Y | Silicon <br> Rubber |
|  | Black | HE9Z-D3B | Heay |
|  | HE9Z-D3N1 | NBR/PVC <br> polyblend |  |

Lock Nut Tool

| Appearance | Part Number | Material |
| :---: | :---: | :---: |
|  |  |  |
|  | MT-001 | Metal |

## Specifications

| Conforming to Standards | UL508 (UL recognized), CSA C22.2, No. 14 (c-UL recognized) <br> IEC/EN 60947-5-1, IEC/EN 60947-5-8 (TÜV approval) |
| :--- | :--- |
| Application Standards | ISO 12100-1, -2, EN 12100-1, 2, IEC 60204-1 / EN 60204-1 <br> ISO 11161 / prEN 11161, ISO 10218 / EN 775 |
| ANSI/RIA R15.06, ANSI B11.19 |  |



Operating Characteristics
Operating Characteristics (without rubber cover/pushing button part A and B)

Position 2
Position 3

Dimensions (mm)
Without Rubber Cover
Mounting Panel Thickness: 0.5 to 4


With Rubber Cover


## Mounting Hole Layout



1. Recommended Lock Nut Torque: 0.68 to 0.88 Nm .
2. Use a lock nut tool to screw on the lock nut (see page 397).
3. To retain the switches waterproof performance, do not penetrate the rubber cover
4. Remove the rubber cover projection if you do not want a positioning hole. (Do not penetrate the rubber cover).

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