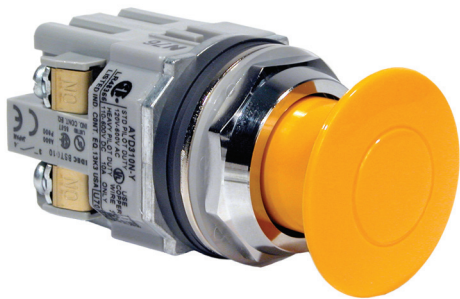


Stop Switches (Assembled)



Assembled Stop Switches

|                             | A | V                                      | (L)                           | D              | 3                | (99)                                                                                                                                                         | 11 | (D) | N | - | R | - | (24V) |                                                                                                                                                                              |
|-----------------------------|---|----------------------------------------|-------------------------------|----------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---|---|---|---|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>             |   | V: Pushlock Turn Reset<br>Y: Push-Pull |                               |                |                  |                                                                                                                                                              |    |     |   |   |   |   |       | <b>Lamp Voltage</b><br>(full voltage illuminated units only)<br><br>6V: 6V AC/DC<br>12V: 12V AC/DC<br>24V: 24V AC/DC<br>120V: 120V AC (LED only)<br>240V: 240V AC (LED only) |
| <b>Illumination</b>         |   |                                        | Blank: None<br>L: Illuminated |                |                  |                                                                                                                                                              |    |     |   |   |   |   |       | <b>Button/Lens Color Code</b><br><br>A: Amber<br>G: Green<br>R: Red<br>S: Blue<br>W: White<br>Y: Yellow                                                                      |
| <b>Series Designation</b>   |   |                                        |                               | D: TWTD Series |                  |                                                                                                                                                              |    |     |   |   |   |   |       |                                                                                                                                                                              |
| <b>Button/Lens Size</b>     |   |                                        |                               |                | 3: 40mm Mushroom |                                                                                                                                                              |    |     |   |   |   |   |       |                                                                                                                                                                              |
| <b>Illumination Circuit</b> |   |                                        |                               |                |                  | 99: Full Voltage (lamp determines voltage)<br>126: 120V AC Step Down Transformer<br>246: 240V AC Step Down Transformer<br>486: 480V AC Step Down Transformer |    |     |   |   |   |   |       | <b>Lamp Type</b><br>(illuminated units only)<br><br>Blank: Incandescent<br>D: LED                                                                                            |
|                             |   |                                        |                               |                |                  |                                                                                                                                                              |    |     |   |   |   |   |       | <b>Contact Arrangement</b><br><br>10: 1NO      01: 1NC<br>20: 2NO      02: 2NC<br>11: 1NO-1NC    22: 2NO-2NC                                                                 |

1. Use only when interpreting part numbers. Do not use for developing part numbers.  
2. Custom contact configurations available, contact IDEC for details.

## Stop Switches (Assembled)

### Stop Switches

| Style                                                                                                                                              | Contacts                            | Part Number                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------|
| <div>ø 40mm Pushlock Turn Reset</div>  <div>Non-Illuminated</div> | 1NO<br>1NC<br>1NO-1NC<br>2NO<br>2NC | AVD310N-R*<br>AVD301N-R*<br>AVD311N-R*<br>AVD320N-R*<br>AVD302N-R* |
| <div>ø 40mm Illuminated Pushlock Turn Reset</div>                 | 1NO-1NC<br>2NO<br>2NC               | AVLD39911ⓈN-R-③*<br>AVLD39920ⓈN-R-③*<br>AVLD39902ⓈN-R-③*           |
| <div>ø 40mm Push-Pull</div>  <div>Non-Illuminated</div>           | 1NO<br>1NC<br>1NO-1NC<br>2NO<br>2NC | AYD310N-①<br>AYD301N-①<br>AYD311N-①<br>AYD320N-①<br>AYD302N-①      |
| <div>ø 40mm Push-Pull</div>                                      | 1NO-1NC<br>2NO<br>2NC               | AYLD39911ⓈN-②-③**<br>AYLD39920ⓈN-②-③**<br>AYLD39902ⓈN-②-③**        |
| <div>ø 40mm Momentary Push-Pull (3-position)</div>              | 1NO-1NC<br>1NC-1LB†                 | AYLD229911ⓈN-②-③-TK962<br>AYLD229902SⓈN-②-③-TK962                  |
|                                                                                                                                                    | 1NO-1NC<br>1NC-1LB†                 | AYLD22 ④ 11ⓈN-②-TK962<br>AYLD22 ④ 02SⓈN-②-TK962                    |

### Unibody E-Stops

| Style                                                                                                                                                         | Contacts       | Part Number                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------|
| <div>ø 40mm Pushlock Turn Reset (available in Red only)</div>              | 1NO-1NC<br>2NC | HN1E-BV4F11-R*<br>HN1E-BV4F02-R*       |
| <div>Illuminated ø 40mm Pushlock Turn Reset (available in Red only)</div>  | 1NO-1NC<br>2NC | HN1E-LV4F11QⓈ-R-③<br>HN1E-LV4F02QⓈ-R-③ |



- In place of ①, specify the button color code
- In place of ②, specify the lens color code.
- In place of ③, specify the Full Voltage (lamp voltage) Code.
- In place of ④, specify the transformer voltage code.
- In place of ⑤, specify the Lamp Type code.
- With single unit construction, the positive action contacts are integrated in the body of the switch. This provides an extra degree of safety and reliability for critical emergency stop functions.
- HN1E series E-stops comply with the IEC "E-Stop Addendum to the Low Voltage Directive," this includes "tamper proof" operation whereby a change of contact state is not possible by "teasing" or "floating" the operator.
- 3 position push-pull available in spring return to center only.
- \*Available in red only.
- \*\*Not available in blue.
- The most common configuration for motor starting applications.
- For sub-assembly part numbers, see next page.
- For nameplates and accessories, see page 744 and page 742.
- For dimensions, see page 747.

### 3 Position Push-Pull†

| Contact          | Push | Center | Pull |
|------------------|------|--------|------|
| NC (BST-001)     | 0    | 0      | X    |
| NC-LB (BST-001S) | 0    | X      | X    |
| NO (BST-010)     | X    | 0      | 0    |
| NO-EM (BST-010S) | X    | X      | 0    |

### ① Button Color Codes

| Color  | Code |
|--------|------|
| Black  | B    |
| Green  | G    |
| Red    | R    |
| Blue   | S    |
| Yellow | Y    |

### ② LED/Lens Color Codes

| Color | Code |
|-------|------|
| Amber | A    |
| Green | G    |
| Red   | R    |
| Blue  | S    |
| White | W    |

### ③ Full Voltage Codes

| Voltage   | Code            |
|-----------|-----------------|
| 6V AC/DC  | 6V              |
| 12V AC/DC | 12V             |
| 24V AC/DC | 24V             |
| 120V AC   | 120V            |
| 240V AC   | 240V (LED only) |

### ④ Transformer Voltage Codes

| Voltage | Code |
|---------|------|
| 120VAC  | 126  |
| 240VAC  | 246  |
| 480VAC  | 486  |



Transformers step down to 6V.

### ⑤ Lamp Type Codes

| Lamp         | Code  |
|--------------|-------|
| Incandescent | Blank |
| LED          | D     |

## Stop Switches (Sub-Assembled)



\* Not required for full voltage units (full voltage clips used instead).

## Operators

| Style                                 | Part Number                               |
|---------------------------------------|-------------------------------------------|
| ø40mm Pushlock Turn Reset             | AVD-300                                   |
| Illuminated ø40mm Pushlock Turn Reset | AVLD3-0600N                               |
| ø40mm Push-Pull                       | AYD-3100                                  |
| Illuminated ø 40mm Push-Pull          | 2 pos AYLD-0600<br>3 pos AYLD22TK962-0B01 |

## Buttons and Lenses

| Style                                                                    | Part Number                       |
|--------------------------------------------------------------------------|-----------------------------------|
| Button for Pushlock Turn Reset Stop Switches (ø40mm, red only)           | AVN3B-R                           |
| Lens for Illuminated Pushlock Turn Reset Stop Switches (ø40mm, red only) | AVLN3LU-R                         |
| Button for Push-Pull Stop Switches (ø40mm)                               | AYD3BN-①                          |
| Lens for Illuminated Push-Pull Stop Switches (ø40mm)                     | 2 pos* AYLD3L-②<br>3 pos AYLD2L-② |

1. In place of ①, specify the Button Color Code. (See table below)  
 2. In place of ②, specify the LED Color Code.  
 3. \*Not available in blue.

## Lamps

| Style        | Voltage   | Part Number |
|--------------|-----------|-------------|
| LED          | 6V AC/DC  | LSTD-6②     |
|              | 12V AC/DC | LSTD-1②     |
|              | 24V AC/DC | LSTD-2②     |
|              | 120V AC   | LSTD-H2②    |
|              | 240V AC   | LSTD-M4②    |
| Incandescent | 6V AC/DC  | IS-6        |
|              | 12V AC/DC | IS-12       |
|              | 24V AC/DC | IS-24       |
|              | 120V AC   | L-120L      |

1. In place of ②, specify the LED color code.  
 2. The LED contains a current-limiting resistor and a protection diode.

## ① Button Color Codes

| Color  | Code |
|--------|------|
| Black  | B    |
| Green  | G    |
| Red    | R    |
| Blue   | S    |
| Yellow | Y    |

## ② LED Color Codes

| Color | Code |
|-------|------|
| Amber | A    |
| Green | G    |
| Red   | R    |
| Blue  | S    |
| White | W    |

## Contact Blocks

| Style             | Part Number                      |                                  |
|-------------------|----------------------------------|----------------------------------|
|                   | 1NO                              | 1NC                              |
| All Control Units | BST-010<br>BST-010S (early make) | BST-001<br>BST-001S (late break) |
| Dummy Block       | BST-D                            |                                  |

1. Dummy blocks (no contacts) are used with an odd number of contact blocks.  
 2. Combining BST-010S and BST-001S result in overlapping contacts.

## Full Voltage Clips

| Primary Voltage (50/60Hz)                     | Part Number |
|-----------------------------------------------|-------------|
| Full Voltage Clips (2 required for each unit) | APD-F       |

## Transformers

| Style | Primary Voltage (50/60Hz) | Part Number |
|-------|---------------------------|-------------|
|       | 120V AC                   | TWD-0126    |
|       | 240V AC                   | TWD-0246    |
|       | 480V AC                   | TWD-0486    |

6V secondary voltage (uses 6V lamp).

Pilot Lights (Assembled)



Assembled Pilot Lights

**Function**  
P: Pilot Light

**Series Designation**  
D: TWTD Series

**Lens Shape**  
1: Dome

**Rated Operational Voltage (Primary)**  
Transformer Type    Full Voltage Type  
126: 120V AC        99: Full Voltage  
246: 240V AC  
486: 480V AC

**Lamp Voltage**  
(full voltage illuminated units only)  
6V:        6V AC/DC  
12V:       12V AC/DC  
24V:       24V AC/DC  
120V:      120V AC (LED only)  
240V:      240V AC (LED only)

**Lens Color Code**  
A: Amber  
G: Green  
R: Red  
S: Blue  
W: White  
Y: Yellow

**Lamp Type**  
Blank: Incandescent  
D: LED

**Part Number**  
A P D 1 126 D N - R - ( )

Use only when interpreting part numbers. Do not use for developing part numbers.

LED and Incandescent Pilot Lights

| Style                                                                               | Operating Voltage | Part Number  |              |
|-------------------------------------------------------------------------------------|-------------------|--------------|--------------|
|                                                                                     |                   | LED          | Incandescent |
|  | 120V AC           | APD1126DN-②  | APD1126N-②   |
|                                                                                     | 240V AC           | APD1246DN-②  | APD1246N-②   |
|                                                                                     | 480V AC           | APD1486DN-②  | APD1486N-②   |
|                                                                                     |                   |              |              |
|  | —                 | APD199DN-②-③ | APD199N-②-③  |
|                                                                                     |                   |              |              |

- 
1. In place of ②, specify the Lens/LED Color Code.

2. In place of ③, specify the Full Voltage Code (lamp voltage).

3. Yellow pilot light comes with white LED.

② Lens Color Codes

| Color  | Code |
|--------|------|
| Amber  | A    |
| Green  | G    |
| Red    | R    |
| Blue   | S    |
| White  | W    |
| Yellow | Y    |

③ Full Voltage Codes

| Voltage   | Code            |
|-----------|-----------------|
| 6V AC/DC  | 6V              |
| 12V AC/DC | 12V             |
| 24V AC/DC | 24V             |
| 120V AC   | 120V            |
| 240V AC   | 240V (LED only) |