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# 800T/H 30 mm Push Buttons

Allen-Bradley

Time-tested Durability, Industry Proven –
A Legacy of Leadership










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Rockwell Automation

# Imitated, But Never Duplicated

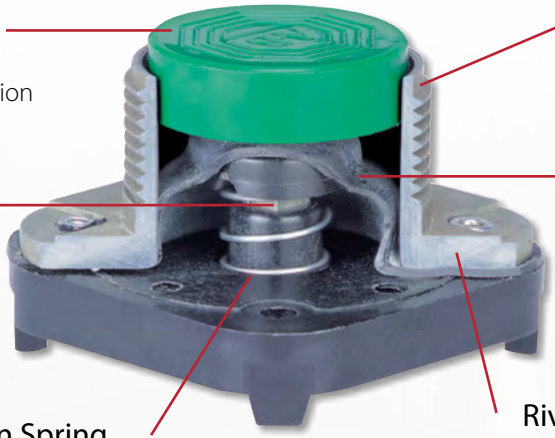
The Allen-Bradley Bulletin 800T and 800H push button product lines are in a class by themselves. They are designed and constructed to perform in the most demanding industrial environments. Bold yet functional, rugged yet attractive, Allen-Bradley's 30 mm push buttons represent the world's most innovative and unique offering.

### Solid-Color Button Cap

Thermoplastic polyester resin delivers excellent resistance to corrosive agents/color identification is never lost (no insert to lose).

### Actuator Shaft

Rugged, dependable performance assured by zinc alloy casting.



### Operator Bushing

Die cast zinc alloy gives strength and stability in installation.

### Diaphragm Seal

Provides a complete blanket of protection from liquids, particles and corrosive agents.

### Return Spring

Stainless steel formed wire delivers consistent operation and long life.

### Riveted Construction

Operator bushing, diaphragm seal and base plate are secured together by four steel rivets, providing durability and tamper resistance.

# Fast, Easy Installation



**Operator** with factory installed contact blocks



**Gaskets** provide type 4/13 ingress protection




**Legend plate**




**Thrust washer** with anti-turn tab



**Mounting ring**

## Worldwide Solutions

- Designed to worldwide standards

## Switching Safety

### Selector Switches

- Positive detent – prevents the switch from hanging up between positions
- Constant energy – minimizes accidental switching to an unwanted change in contact state

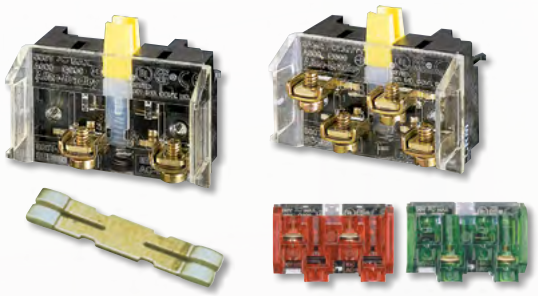


# Advanced Switching Functionality

Allen-Bradley's wide range of contact blocks, offering features and capabilities found no where else in the industry, can address more applications and environments.

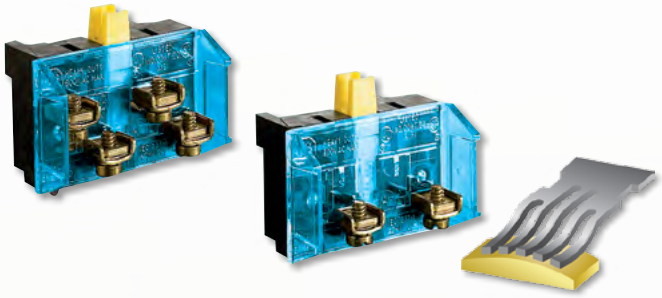
## Standard Contact Blocks

- 10 A max., A600 rated – for general purpose use
- Flexible bifurcated spanner provides increased contact reliability
- Pure fine silver contacts resist corrosion
- Self-lifting saddle clamps simplify wiring
- Clear side plates allow easy inspection of contacts
- Optional color-coded finger safe (IP2X) versions



## PenTUFF™ Contact Blocks

- 2.5 A max., C300 rated
- Low voltage switching reliability to 5V DC, 1 mA – ideal for interfacing with programmable logic controller input circuits
- Direct drive pentafurcated contact design
- Spanner made from corrosion resistant inert precious metals
- Optional finger-safe (IP2X) versions



## Explosion-Protected Contact Blocks

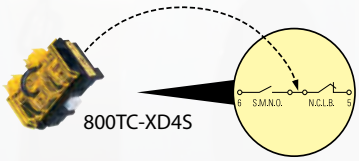
- Class I Div. 2 (Groups A, B, C and D) certified
- 1-NO, 1-NC, A600 rated (10 A max)
- Positive opening NC contact, conformance to global E-stop standards
- Rugged construction ideal for applications with high shock and vibration
- Stackable design allows maximum circuit flexibility



## Self-Monitoring™ Contact Blocks

- Ensures that the normally closed contacts will open when the E-stop is actuated
- 10 A max., A600 rated
- Bifurcated spanner with pure fine silver contacts
- Color-coded yellow for easy identification
- IP2X finger safe protection standard

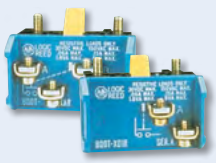





| | Normal Operation | Actuated Button | Improperly Installed |
|---|---|---|---|
| |   |   |   |
| S.M.N.O. | X | X | O |
| N.C.L.B | X | O | X |
| | X | O | O |

Note: X = Closed O = Open

### Logic Reed Blocks



### Sealed Switch Blocks



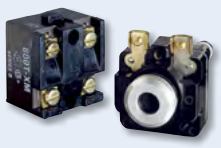
### Mini Blocks



### MaxDuty™ Blocks



### Snap Action & Time Delay Blocks



# Push Button Devices

## Momentary Contact Push Buttons, Non-Illuminated

| Contact Configuration | Color | Type 4/13 Metal (800T) Flush Head | Type 4/13 Metal (800T) Extended Head | Type 4/4X/13 Plastic (800H) Bootless Flush Head | Type 4/4X/13 Plastic (800H) Booted |
|---|---|---|---|---|---|
| | |  |  |  |  |
| 1 N.O. | Green | 800T-A1D1 | 800T-B1D1 | 800H-AR1D1 | 800H-R1D1 |
| | Black | 800T-A2D1 | 800T-B2D1 | 800H-AR2D1 | 800H-R1D1 |
| | Red | 800T-A6D1 | 800T-B6D1 | 800H-AR6D1 | 800H-R6D1 |
| 1 N.C. | Green | 800T-A1D2 | 800T-B1D2 | 800H-AR1D2 | 800H-R1D2 |
| | Black | 800T-A2D2 | 800T-B2D2 | 800H-AR2D2 | 800H-R2D2 |
| | Red | 800T-A6D2 | 800T-B6D2 | 800H-AR6D2 | 800H-R6D2 |
| 1 N.O. – 1 N.C. | Green | 800T-A1A | 800T-B1A | 800H-AR1A | 800H-R1A |
| | Black | 800T-A2A | 800T-B2A | 800H-AR2A | 800H-R2A |
| | Red | 800T-A6A | 800T-B6A | 800H-AR6A | 800H-R6A |

*Other colors available: blue, gray, orange and white.*

## Momentary Contact Push Buttons, Non-Illuminated with Two-Color Molded Legend Cap

| Contact Configuration | Button Color | Legend Color | Legend | Head Type | Type 4/13 Metal (800T) | Type 4/4X/13 Plastic (800H) |
|---|---|---|---|---|---|---|
| | | | | |  |  |
| 1 N.O. – 1 N.C. | Green | ○ | Start | Flush | 800T-A103WA | 800H-AR103WA |
| | Red | ○ | Stop | Extended | 800T-B604WA | 800H-BR604WA |
| 1 N.O. – 1 N.C. | Black | ○ | Forward | Flush | 800T-A210WA | 800H-AR210WA |
| | Black | ○ | Reverse | Flush | 800T-A210WA | 800H-AR210WA |
| | Black | ○ | Jog | Flush | 800T-A210WA | 800H-AR212WA |
| | Black | ○ | Up | Flush | 800T-A210WA | 800H-AR213WA |
| | Black | ○ | Down | Flush | 800T-A210WA | 800H-AR214WA |
| | Blue | ○ | Reset | Flush | 800T-A707WA | 800H-AR707WA |

## Momentary Contact Push Buttons, Illuminated

| Type | Color | Type 4/13 Metal (800T) Extended Head without Guard | Type 4/13 Metal (800T) Extended Head with Guard | Type 4/4X/13 Plastic (800H) Extended Head without Guard | Type 4/4X/13 Plastic (800H) Extended Head with Guard |
|---|---|---|---|---|---|
| | |  |  |  |  |
| Universal LED 12–130V AC/DC 1 N.O. – 1 N.C. | Red | 800T-QBH2R | 800T-QAH2R | 800H-QRBH2R | 800H-QRAH2R |
| | Green | 800T-QBH2G | 800T-QAH2G | 800H-QRBH2G | 800H-QRAH2G |
| | Yellow | 800T-QBH2A | 800T-QAH2A | 800H-QRBH2A | 800H-QRAH2A |
| Transformer LED 120V AC, 50/60 HZ 1 N.O. – 1 N.C. | Red | 800T-PBH16R | 800T-PAH16R | 800H-PRBH16R | 800H-PRAH16R |
| | Green | 800T-PBH16G | 800T-PAH16G | 800H-PRBH16G | 800H-PRAH16G |
| | Yellow | 800T-PBH16A | 800T-PAH16A | 800H-PRBH16A | 800H-PRAH16A |

*Other colors available: blue, clear, yellow and white.*

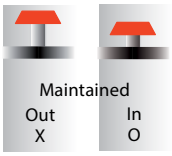
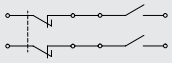
# Pilot Light Devices

| Type | Color | Type 4/13 Metal (800T) Standard Type | Type 4/13 Metal (800T) Push-to-Test | Type 4/4X/13 Plastic (800H) Standard Type | Type 4/4X/13 Plastic (800H) Push-to-Test |
|---|---|---|---|---|---|
| | |  |  |  |  |
| Universal LED 12–130V AC/DC | ● | 800T-QH2R | 800T-QTH2R | 800H-QRH2R | 800H-QRTH2R |
| | ● | 800T-QH2G | 800T-QTH2G | 800H-QRH2G | 800H-QRTH2G |
| | ● | 800T-QH2A | 800T-QTH2A | 800H-QRH2A | 800H-QRTH2A |
| Transformer LED 120V AC, 50/60 HZ | ● | 800T-PH16R | 800T-PTH16R | 800H-PRH16R | 800H-PRTH16R |
| | ● | 800T-PH16G | 800T-PTH16G | 800H-PRH16G | 800H-PRTH16G |
| | ● | 800T-PH16A | 800T-PTH16A | 800H-PRH16A | 800H-PRTH16A |

*Other colors available: blue, clear, white and yellow*

# Emergency-Stop and Push-Pull Devices

### 2-Position Push-Pull and Trigger Action, Non-Illuminated

| Contact Configuration | Operator Position | Type 4/13 Metal (800T) Push-Pull | Type 4/13 Metal (800T) Trigger Action Twist Release | Type 4/13 Metal (800T) Trigger Action Key Release | Type 4/4X/13 Plastic (800H) Trigger Action Twist Release |
|---|---|---|---|---|---|
| |   |  |  |  |  |
|  (2) S.M.C.B. | | 800TC-FX6A5S | 800TC-TFXT6A5S | 800TC-TFXK6A5S | 800HC-TFRXT6A5S |
|  (2) N.C.L.B./(2) N.C. | | 800TC-FX6A5 | 800T-TFXT6A4 | 800T-TFXK6A4 | 800H-TFRXT6A4 |

### 2-Position Push-Pull and Trigger Action, Illuminated

| Type | Operator Position | Type 4/13 Metal (800T) Push-Pull | Type 4/13 Metal (800T) Trigger Action Twist Release | Type 4/4X/13 Plastic (800H) Trigger Action Twist Release |
|---|---|---|---|---|
| |   |  |  |   |
| Universal LED 12…130V AC/DC (1) N.O. (1) S.M.C.B. | | 800TC-FXQH2RA1S | 800TC-TFXTQH2RA1S | 800HC-TFRXTQH2RA1S |
| Transformer, LED 120V AC, 50/60 HZ (1) N.O. (1) N.C.L.B. /N.C. | | 800T-FXPH16RA1 | 800T-TFXTPH16RA1 | 800H-TFRXTPH16RA |

# Selector Switch Devices

### 2-Position Selector Switches, Non-Illuminated

| | | Type 4/13 Metal (800T) | | | Type 4/4X/13 Plastic (800H) |
|---|---|---|---|---|---|
| | | Standard Knob | Knob Lever | Cylinder Lock | Standard Knob |
| | |  |  |  |  |
| **Contact Configuration** | **Operator Type** | | | | |
| 1 N.O. – 1 N.C. | | 800T-H2A | 800T-H17A | 800T-H33A | 800H-HR2A |
| | | 800T-H4A | 800T-H18A | 800T-H42A | 800H-HR4A |
| | | 800T-H5A | 800T-H19A | 800T-H48A | 800H-HR5A |

### 2-Position Selector Switches, Illuminated

| | | Type 4/13 Metal (800T) | Type 4/4X/13 Plastic (800H) |
|---|---|---|---|
| | | Standard Knob | Standard Knob |
| | |  |  |
| **Type** | **Operator Type** | | |
| Universal LED<br>12–130V AC/DC<br>Red Knob<br>1 N.O. – 1 N.C. | | 800T-2HRH2KB6AX | 800H-2HRRH2KB6AX |
| | | 800T-2HRH4KL8AX | 800H-2HRRH4KL8AX |
| | | 800T-2HRH5KL8AX | 800H-2HRRH5KL8AX |
| Transformer<br>Red LED<br>120V AC, 50/60 HZ<br>1 N.O. – 1 N.C. | | 800T-16HRH2KB6AX | 800H-16HRRH2KB6AX |
| | | 800T-16HRH4KL8AX | 800H-16HRRH4KL8AX |
| | | 800T-16HRH5KL8AX | 800H-16HRRH5KL8AX |





For more information on our complete family of 30 mm and other push button products, please visit:
*http://ab.rockwellautomation.com/Push-Buttons-and-Signaling-Devices*

### 3-Position Selector Switches, Non-Illuminated

| | | Type 4/13 Metal (800T) | | | Type 4/4X/13 Plastic (800H) |
|---|---|---|---|---|---|
| | | Standard Knob | Knob Lever | Cylinder Lock | Standard Knob |
| | |  |  |  |  |
| **Contact Configuration** | **Operator Type** | | | | |
| 1 N.O. – 1 N.C. | | 800T-J2A | 800T-J17A | 800T-J42A | 800H-JR2A |
| | | 800T-J4A | 800T-J18A | 800T-J50A | 800H-JR4A |
| | | 800T-J5A | 800T-J19A | 800T-J38A | 800H-JR5A |
| | | 800T-J91A | 800T-J20A | 800T-J631A | 800H-JR91A |

### 3-Position Selector Switches, Illuminated

| | | Type 4/13 Metal (800T) | Type 4/4X/13 Plastic (800H) |
|---|---|---|---|
| | | Standard Knob | Standard Knob |
| | |  |  |
| **Type** | **Operator Type** | | |
| Universal LED<br>12-130V AC/DC<br>Red Knob<br>1 N.O. – 1 N.C. | | 800T-2JRH2KB7AX | 800H-2JRRH2KB7AX |
| | | 800T-2JRH4KB7AX | 800H-2JRRH4KB7AX |
| | | 800T-2JRH5KB7AX | 800H-2JRRH5KB7AX |
| Transformer<br>Red LED<br>120V AC, 50/60 HZ<br>1 N.O. – 1 N.C. | | 800T-16JRH2KB7AX | 800H-16JRRH2KB7AX |
| | | 800T-16JRH4KB7AX | 800H-16JRRH4KB7AX |
| | | 800T-16JRH5KB7AX | 800H-16JRRH5KB7AX |

### 4-Position Selector Switches, Non-Illuminated

| | | Type 4/13 Metal (800T) | | | Type 4/4X/13 Plastic (800H) |
|---|---|---|---|---|---|
| | | Standard Knob | Knob Lever | Cylinder Lock | Standard Knob |
| | |  |  |  |  |
| **Contact Configuration** | **Operator Type** | | | | |
| 2 N.O. – 2 N.C. | | 800T-N2KF4B | 800T-N17KF4B | 800T-N33KF4B | 800H-NR2KF4B |
| | | 800T-N3KF4B | 800T-N29KF4B | 800T-N133KF4B | 800H-NR3KF4B |
| | | 800T-N9KF4B | 800T-N30KF4B | 800T-N233KF4B | 800H-NR9KF4B |

# Specialty Devices

**Potentiometer Units**



**Cylinder Lock Push Buttons (800T only)**



**Momentary Contact Flip Lever Push Buttons (800H only)**






**Selector Push Button Units (800T only)**

**Momentary Wobble Stick Units (800T only)**



**1-2-3-4-Way Toggle Switches (800T only)**





**Mechanically Interlocked Maintained Push Buttons**



**Momentary Padlocking Mushroom Head Push Buttons (800T only)**

**Cluster Pilot Lights (800T only)**




# Assembled Stations

| | | | Type 4/13 Metal (800T) | Type 4/4X/13 (800H) | |
|---|---|---|---|---|---|
| | | | Die Cast Aluminum | Stainless Steel (Booted Operator) | Glass Polyester (Booted Operator) |
| | | |  |  |  |
| **Contact Configuration** | **Button Color** | **Legend Marking** | | | |
| One Push Button | ● | Stop | **800T-1TA** | **800H-1HA4T** | **800H-1HA4R** |
| | ● | Start | **800T-1TB** | **800H-1HB4T** | **800H-1HB4R** |
| | ● | Emergency Stop | **800T-1TYM** | – | – |
| | ● | Break Glass | **800T-NX114** | – | – |
| Two Push Buttons | ● | Start | **800T-2TA** | **800H-2HA4T** | **800H-2HA4R** |
| | ● | Stop | | | |
| Three-position Selector Switch | ● | Hand-Off-Auto | **800T-R3TA** | – | – |

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Publication 800T-BR012C-EN-P – August 2016
Supersedes Publication 800T-BR012B-EN-P – August 2011

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