

30 mm Push Button Specifications

Bulletin Numbers 800T, 800H

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

| Topic | Page |
|-----------------------------------------------|------|
| Updated Explosion-protected Contacts section. | 4 |

IMPORTANT Performance data that is given in this publication is provided only as a guide for you to determine suitability and do not constitute a performance warranty of any kind. Such data may represent the results of accelerated testing at elevated stress levels, and you are responsible for correlating the data to actual application requirements. ALL WARRANTIES AS TO ACTUAL PERFORMANCE, WHETHER EXPRESS OR IMPLIED, ARE EXPRESSLY DISCLAIMED.

Table 1 - Electrical Ratings

| Attribute | Bulletin 800T and 800H |
|---------------------|------------------------------------------------------------|
| Contact ratings | See the contact ratings tables on page 4 . |
| Dielectric strength | 2200V for 1 minute, 1300V for 1 minute (Logic Reed) |

Table 2 - Mechanical Ratings

| Attribute | Bulletin 800T and 800H | | | |
|-----------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Vibration | 10...2000 Hz, 0.06 in. (1.52 mm) displacement (peak-to-peak) max/10 G max (except Logic Reed) | | | |
| Shock | 1/2 cycle sine-wave for 11 ms \geq 25 g (contact fragility) and no damage at 100 g | | | |
| Degree of protection | Type 1/4/12/13 (800T); Type 1/4/4X/12/13 (800H); EN/IEC 60529 IP66/65 | | | |
| Mechanical design lifecycles, min | Push buttons | Momentary, non-illuminated, flush, and extended head | 10,000,000 | |
| | | Momentary, illuminated | 250,000 | |
| | | Push-pull/twist-to-release | 250,000 ⁽¹⁾ | |
| | Selector switches | Non-illuminated | 1,000,000 | |
| | | Illuminated, key-operated | 200,000 | |
| | Potentiometers | 25,000 | | |
| All other devices | 200,000 | | | |
| Contact block operation | Shallow, mini, and low-voltage | Slow, double make and break | | |
| | Logic reed and sealed switch | Single break magnetic | | |
| Wire gauge/terminal screw torque | #18...14 AWG (#18...10 MaxDuty) / 6...8 lb•in | | | |
| Typical operating forces | Operators without contact blocks | | <ul style="list-style-type: none"> Flush, extended button, standard mushroom, jumbo plastic mushroom: 2 lb max Jumbo and extended aluminum mushroom head: 3.95 lb max Maintained selector switch: 3.6 in•lb max | |
| | Spring-return selector switches | | 3.6 in•lb to stop, 0.2 in•lb to return | |
| | Illuminated push buttons and push-to-test pilot lights | | 5 lb max | |
| | 2-position push-pull | | 8.0 lb max push or pull | |
| | 3-position push-pull | | 8 lb max push to in position or pull to center position (15 lb max pull to out position) | |
| | Twist-to-release or push-pull | | 9 lb max push or pull 30 in•oz max twist, 6 in•oz min return | |
| | Potentiometer | | Rotational torque 3...12 in•oz; stopping torque 12 in•lb (min) | |
| | Contact blocks | Standard | 1 lb | |
| | | Logic Reed and stackable sealed switch | 1 lb max | |
| | | Sealed switch | 3 lb max at 0.205 in. (5.2 mm) plunger travel | |
| MaxDuty and PenTUFF™ | | 1.4 lb max | | |
| Self-Monitoring | | 1.6 lb | | |

(1) Illuminated trigger action E-stops are rated for 150,000 minimum mechanical operations when using Cat. No. 800TC-XD4S self-monitoring contact blocks (SMCBs).

Table 3 - Environmental Ratings

| Attribute | | Bulletin 800T and 800H |
|-------------------|--------------------------|-------------------------------------------------------------------------------------------------------|
| Temperature Range | Operating ⁽¹⁾ | -40...+131 °F (-40...+55 °C) |
| | Storage | -40...+185 °F (-40...+85 °C) |
| Humidity | | 50...95% RH from 77...140 °F (25...60 °C) per Procedure IV of MIL-STD-810C, Method 507.1 cycling test |

(1) Operating temperatures below freezing are based on the absence of moisture and liquids. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for use in lower temperature applications.

Table 4 - Materials Used in Bulletin 800H Type 4X Operators

| Material | Where Used |
|-------------------------------------------------|--------------------------------------------------|
| Thermoplastic Polyester (Fiberglass Reinforced) | Bushings, mounting rings, and sockets |
| Transparent Amorphous Nylon | Pilot light lens cap and illuminated button caps |
| Mineral-filled Nylon | Trim washer |
| Thermoplastic Polyester | Non-illuminated button caps |
| Glass-filled Crystalline Nylon | Thrust washer |
| Nitrile (Synthetic Rubber) | Gaskets and internal seals |

Standards Compliance and Certifications

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards Compliance | UL 508, CCC |
| Certifications | <ul style="list-style-type: none"> UL Listed (File No. E14840, E10314 Guide No. NKCR, NOIV, NISD) CSA Certified (File No. LR1234, LR11924) CSA C22.2, No. 14 CE Marked (EN/IEC 60947-5-1, EN/IEC 60947-5-5, EN ISO 13850) |

Contact Ratings

Use the following tables to verify that the ratings meet the needs of your applications.

Standard Contacts

- Minimum: 24V, 24 mA
- Maximum thermal continuous current I_{th} 10 A AC/2.5 A DC.

Bulletin 800T units with 800T-XA contacts have ratings as follows:

| Max Operational Volts U_e | Utilization Category | | Rated Operating Currents | | |
|-----------------------------|----------------------|------|--------------------------|--------|-------|
| | IEC | NEMA | Volts U_e | Make | Break |
| AC 600 | AC-15 | A600 | 120...600 | 7200VA | 720VA |
| | | | 72...120 | 60 A | 720VA |
| | | | 24...72 | 60 A | 10 A |
| DC 600 | DC-13 | Q600 | 28...600 | 69VA | 2.5 A |
| | | | 24...28 ⁽¹⁾ | | |

(1) For applications below 17V/5 mA, PenTUFF or Logic Reed contacts are recommended.

Electrical design lifecycles: 1,000,000 (at max rated load)

Explosion-protected Contacts

- Maximum thermal continuous current I_{th} = 10 A
- Minimum low-energy switching load: 17V DC, 5 mA
- Electrical design lifecycles: 1,000,000 (24V DC, 25 mA)
- Vibration: 5 g, 0.7 mm peak-to-peak displacement, sine sweep 10...2000 Hz / IEC 60068-2-6
- Shock: 15 g (800H-TFRX_ trigger action E-stops), 50 g (all other devices) / IEC 60068-2-27

Bulletin 800T units with 800TC-XAF contacts have ratings as follows:

| Max Operational Volts U_e | Utilization Category | | Rated Operating Currents | | |
|-----------------------------|----------------------|------|--------------------------|--------|-------|
| | IEC | NEMA | Volts U_e | Make | Break |
| AC 600 | AC-15 | A600 | 120...600 | 7200VA | 720VA |
| | | | 72...120 | 60 A | 720VA |
| | | | 24...72 | 60 A | 10 A |
| DC 600 | DC-13 | P300 | 24...300 | 138VA | 5.0 A |
| | | | 0...24 | | |
| | | Q600 | 28...600 | 69VA | 2.5 A |
| | | | 24...28 | | |

Sealed Switch Contacts

- Minimum: 5V, 1 mA
- Maximum continuous current I_{th} 5 A.

Bulletin 800T units with sealed switch contact blocks have ratings as follows:

| Max Operational Volts U_e | Utilization Category | | Rated Operating Currents | | |
|-----------------------------|----------------------|------|--------------------------|--------|-------|
| | IEC | NEMA | Volts U_e | Make | Break |
| AC 600 | AC-15 | B600 | 120...600 | 3600VA | 360VA |
| | | | 0...120 | 30 A | 3 A |
| DC 300 | DC-13 | P300 | 24...300 | 138VA | 5.0 A |
| | | | 0...24 | | |

Stackable Sealed Switch Contacts

- Minimum: 5V, 10 mA (digital); 24V, 1 mA (analog)
- Maximum continuous current I_{th} 2.5 A.

Bulletin 800T units with stackable sealed switch contact blocks have ratings as follows:

| Max Operational Volts U_e | Utilization Category | | Rated Operating Currents | | |
|-----------------------------|----------------------|------|--------------------------|----------------|----------------|
| | IEC | NEMA | Volts U_e | Make | Break |
| AC 300 | AC-15 | C300 | 120...300 0...120 | 1800VA 15 A | 180VA 1.5 A |
| DC 150 | DC-13 | Q150 | 24...150 0...24 | 69VA 2.5 A | |

Logic Reed Contacts

- Minimum – DC: 5V, 1 mA
- Maximum – DC: 30V, 0.06 A, AC: 150V, 0.15 A
- Only used with resistive loads.
- Electrical design lifecycles: 200,000 (at max rated load)

PenTUFF (Low Voltage) Contacts

- Minimum DC: 5V, 1 mA
- Maximum thermal continuous current I_{th} 2.5 A AC/1.0 A DC.

Bulletin 800T units with 800T-XAV contacts have ratings as follows:

| Max Operational Volts U_e | Utilization Category | | Rated Operating Currents | | |
|-----------------------------|----------------------|------|--------------------------|----------------|----------------|
| | IEC | NEMA | Volts U_e | Make | Break |
| AC 300 | AC-15 | C300 | 120...300 0...120 | 1800VA 15 A | 180VA 1.5 A |
| DC 150 | DC-13 | R150 | 24...150 0...24 | 28VA 1.0 A | |

Snap Action Contacts

Bulletin 800T units with snap action contact blocks have ratings as follows:

| Max Operational Volts U_e | Contact Rating Designation | Rated Operating Currents | | |
|-----------------------------|----------------------------|--------------------------|----------------|---------------|
| | | Volts U_e | Make | Break |
| AC 300 | A300 | 120...300 24...72 | 7200VA 60 A | 720VA 10 A |
| DC 250 | – | 230...250 115...125 | 0.2 A 0.4 A | |

MaxDuty Contact Ratings

- Maximum thermal continuous current I_{th} 24 A.
- Pilot Duty – 120V AC, 12 A; 24V DC, 10 A
- Motor Ratings – 120V AC, 1.5 Hp; 240V AC, 3 Hp; 24V DC, 10 A FLA/60 A LRA

Time Delay Contacts

IMPORTANT This device is not rated for DC applications.

Bulletin 800T units with time delay contact blocks have ratings as follows:

| Max Operational Volts U_e | Contact Rating Designation | Rated Operating Currents | | |
|-----------------------------|----------------------------|--------------------------|--------|-------|
| | | Volts U_e | Make | Break |
| AC 120 | B150 | 120 | 3600VA | 360VA |

Adjustment range: 0.5...15 s \pm 25% I_{th} = 5 A

Assembled Stations

Our 30 mm assembled stations are available in die-cast aluminum, stainless steel, glass, and thermoplastic polyester resin construction. These stations come completely assembled for easy installation or they can be custom-built to fit your needs (see [page 37](#)).



Die Cast Aluminum
Cat. No. 800T-2TAR



Booted Operator - Stainless Steel
Cat. No. 800H-1HA4T



Booted Operator - Glass Polyester
Cat. No. 800H-1HA4R

| Operator | Contact Symbol | Contact Action | Button Type | Button Color | Legend Marking | Type 4/13 | | | |
|-----------------------------------|----------------|-----------------------------|-------------|------------------------|-------------------------|----------------------|-----------------------------------|-----------------------------------|-------------|
| | | | | | | Die Cast Aluminum | Booted Operator - Stainless Steel | Booted Operator - Glass Polyester | |
| | | | | | | Cat. No. | Cat. No. (1) | Cat. No. (1) | |
| One push button | | 1 N.O. - 1 N.C. | Momentary | Extended | Red | STOP | 800T-1TA | 800H-1HA4T | 800H-1HA4R |
| | | | Momentary | Flush | Green | START | 800T-1TB | 800H-1HB4T | 800H-1HB4R |
| | | | Momentary | Flush | Black | No legend | 800T-1TX | 800H-1HX4T | 800H-1HX4R |
| Two push buttons | | 1 N.O. - 1 N.C. each button | Momentary | Flush Extended | Green Red | START STOP | 800T-2TA | 800H-2HA4T | 800H-2HA4R |
| | | | Momentary | Flush Flush | Black Black | No legend | 800T-2TX | 800H-2HX4T | 800H-2HX4R |
| One pilot light, two push buttons | | 1 N.O. - 1 N.C. each button | Momentary | 120V AC Flush Extended | Red Green Red | No legend START STOP | 800T-2TAR | 800H-2HAR4T | 800H-2HAR4R |
| | | | Momentary | 120V AC Flush Flush | Red Black Black | No legend | 800T-2TXR | 800H-2HXR4T | 800H-2HXR4R |
| 3-position selector switch | | 1 N.O. - 1 N.C. | Maintained | Knob lever | Black with white insert | HAND-OFF-AUTO | 800T-R3TA | — | — |
| | | | Maintained | Knob lever | Black with white insert | No legend | 800T-R3TX | — | — |
| One push button | | 1 N.C.L.B. | Maintained | Push-pull/Twist | Red | EMERG STOP | 800T-1TYM (2) | — | — |
| Two push buttons | | 1 N.O. - 1 N.C. | Maintained | Flush Extended | Green Red | START STOP | 800T-2TAM | 800H-2HAM4T | 800H-2HAM4R |
| | | | Maintained | Flush Flush | Black Black | No legend | 800T-2TXM | 800H-2HXM4T | 800H-2HXM4R |

(1) Boot material is chlorosulfonated polyethylene. Add suffix L to the cat. no. for station with bootless operators. Example: Cat. No. 800H-1HB4T becomes Cat. No. 800H-1HB4TL.

(2) Supplied with yellow legend plate to comply with IEC 60947-5-5 and NFPA79 E-stop standards that require yellow background.

Emergency Stop Devices (Trigger Action)

Our E-stops devices are tamper-resistant featuring front-of-panel mounting and nonremovable operator heads. They are also compliant with global E-stop standards, including EN ISO 13850 and EN 60947-5-5. All push buttons are red, 2-position with twist-to-release trigger action. They are available in non-illuminated and illuminated versions.

2-position – Non-illuminated



Cat. No. 800T-TFXJET6



Cat. No. 800T-TFXLET6



Cat. No. 800T-TFXK6



Cat. No. 800H-TFRXT6

800 **T** **-** **TFX** **T** **6** **D2**
 a b c d e

| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|-----------|------------------------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| TFX | Standard (45 mm) mushroom head | TFRX |
| TFXJ | Jumbo (60 mm) mushroom head | TFRXJ |
| TFXJE | Jumbo (60 mm) mushroom head with "E-stop" (1) | TFRXJE |
| TFXK | 45 mm mushroom head key release | — |
| TFXL | 63 mm anodized aluminum head | — |
| TFXLE | 63 mm anodized aluminum head with "E-stop" (1) | — |

(1) "E-stop" on the mushroom head does not comply with EN ISO 13850.

| d | |
|------------------|---------------------|
| Release Function | |
| Code | Description |
| Blank | Key release (1) (2) |
| T | Twist release |

| e | | | |
|------------------------|-------------------|--------|-------------------------|
| Contact Blocks | | | |
| Code | Operator Position | | Description |
| | Out | In | |
| Blank | — | — | No contacts on operator |
| Standard | | | |
| D2 | X | 0 | 1 N.C. |
| A | 0 X | X 0 | 1 N.O. - 1 N.C. |
| A4 | X X | 0 0 | 2 N.C. |
| PentUFF™ (Low Voltage) | | | |
| D2V | X | 0 | 1 N.C. |
| AV | 0 X | X 0 | 1 N.O. - 1 N.C. |

X = Closed/0 = Open

| e (cont'd) | | | |
|--------------------------------------|-------------------|------------------|-----------------|
| Contact Blocks | | | |
| Code | Operator Position | | Description |
| | Out | In | |
| Class I, Div 2 – Explosion-protected | | | |
| AF | 0 X | X 0 | 1 N.O. - 1 N.C. |
| BF | 0 X 0 X | X 0 0 X | 2 N.O. - 2 N.C. |

X = Closed/0 = Open

(1) Configurable only with FXK head type.

(2) Provided with two D018 keys.

2-position – Illuminated

- Light-emitting diode (LED) illumination is provided as standard



Cat. No. 800T-TFXTS00R



Cat. No. 800T-TFXJETS00R



Cat. No. 800H-TFRXTS00R



Cat. No. 800H-TFRXJETS00R

800 T - TFXT QH 2 R A
 a b c d e f

| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |



| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|-----------|-----------------------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| TFXT | Standard (45 mm) mushroom head | TFRXT |
| TFXJT | Jumbo (60 mm) mushroom head | TFRXJT |
| TFXJET | Jumbo (60 mm) mushroom head with "E-stop" (1) | TFRXJET |

(1) "E-stop" on the mushroom head does not comply with EN ISO 13850.

| d | |
|---------------------|----------------------------|
| Illumination Option | |
| Code | Description |
| PH | Transformer with LED lamp |
| QH | Full voltage with LED lamp |
| S | Operator only |

| e | |
|---------------|-------------------|
| Voltage | |
| Code | Description |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| 46 | 480V AC, 50/60 Hz |
| 56 | 600V AC, 50/60 Hz |
| Full Voltage | |
| 2 | 12...130V AC/DC |
| Operator Only | |
| 00 | No power module |

| f | | |
|--------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Target | | |
| Contact |  |  |
| N.O. | 0 | X |
| N.C./ N.C.L.B./ S.M.C.B. | X | 0 |
| Contact Blocks | | |
| Code | Description | |
| Blank | No contacts | |
| Standard | | |
| D2 | 1 N.C. | |
| D4S | 1 S.M.C.B. | |
| A | 1 N.O. - 1 N.C. | |
| G1 | 2 N.O. - 2 N.C. | |
| PenTUFF (Low Voltage) | | |
| D2V | 1 N.C. | |
| AV | 1 N.O. - 1 N.C. | |
| G1V | 2 N.O. - 2 N.C. | |
| Class I, Div 2 – Explosion-protected | | |
| AF | 1 N.O. - 1 N.C. | |
| G1F | 2 N.O. - 2 N.C. | |

X = Closed/0 = Open

Momentary Contact Devices – Non-illuminated



Flush Head Unit
Cat. No. 800T-A1A



Extended Head Unit
Cat. No. 800T-B6A

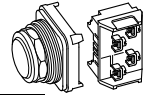


Booted Unit
Cat. No. 800H-R2A



Bootless Flush Head Unit
Cat. No. 800H-AR1A

800 T - A 1 A
a b c d e f



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|---------------|------------------------------|------------------|
| Operator Type | | |
| 800T Code | Description | 800H Code |
| A | Flush head | AR |
| B | Extended head | BR |
| D | Mushroom head | DR |
| DX | Mushroom head (no color cap) | DRX |
| - | Bootless guarded head | GR |
| - | Booted head | R ⁽²⁾ |

| d | |
|-----------|------------------------------------------------|
| Color Cap | |
| Code | Description |
| Blank | Used only when Operator Type DX/DRX is ordered |
| 1 | Green |
| 2 | Black |
| 3 | Orange ⁽¹⁾ |
| 4 | Gray ⁽¹⁾ |
| 5 | White ⁽¹⁾ |
| 6 | Red |
| 7 | Blue |
| 9 | Yellow |

- (1) Not available for booted operators.
 (2) Underlying operators are extended head. Boot material is chlorosulfonated polyethylene.

| e | |
|-----------------------|-------------------------------|
| Special Mushroom Head | |
| Code | Description |
| J | Jumbo mushroom head (plastic) |
| L ⁽¹⁾ | Jumbo mushroom head (metal) |

Note: Special mushroom head options only apply to mushroom head operator type code D/DR (Table c).

| f | |
|----------------|-----------------------|
| Contact Blocks | |
| Code | Description |
| Blank | No contacts |
| Standard | |
| D1 | 1 N.O. |
| D2 | 1 N.C. |
| D3 | 1 N.O.E.M. |
| D4 | 1 N.C.L.B. |
| D5 | 1 N.O. (Mini) |
| D6 | 1 N.C. (Mini) |
| A1 | 1 N.C.L.B. - 1 N.O. |
| A2 | 2 N.O. ⁽²⁾ |
| A4 | 2 N.C. |
| A7 | 1 N.C.L.B. - 1 N.C. |
| A | 1 N.O. - 1 N.C. |
| B | 2 N.O. - 2 N.C. |

| f (cont'd) | |
|----------------------------|------------------------------------------|
| Contact Blocks | |
| Code | Description |
| PenTUFF™ (Low Voltage) | |
| D1V | 1 N.O. |
| D2V | 1 N.C. |
| D3V | 1 N.O.E.M. |
| D4V | 1 N.C.L.B. |
| AV | 1 N.O. - 1 N.C. |
| BV | 2 N.O. - 2 N.C. |
| Time Delay | |
| T | 1 N.O. Depress close, delayed opening |
| S | 1 N.C. Depress open, delayed closure |
| Snap Action ⁽³⁾ | |
| M | 1 N.O. - 1 N.C. |
| N | 2 N.O. - 2 N.C. |

| f (cont'd) | |
|-------------------------------------------|-----------------------|
| Contact Blocks | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected | |
| AF | 1 N.O. - 1 N.C. |
| BF | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Logic Reed | |
| D1R | 1 N.O. |
| D2R | 1 N.C. |
| A2R | 2 N.O. ⁽²⁾ |
| A4R | 2 N.C. |
| AR | 1 N.O. - 1 N.C. |
| BR | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| D1Y | 1 N.O. |
| D2Y | 1 N.C. |
| AY | 1 N.O. - 1 N.C. |
| BY | 2 N.O. - 2 N.C. |

| Time Delay Contacts |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series C field installable kits can only be used with Series T or later operators. Adjustable range of 0.5...15 s + 25%. Maximum continuous current I_{th} 5 A. |

| Snap Action Contacts |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Snap-action contacts feature a quick make, quick break snap-action mechanism that is only available on factory-assembled units. Maximum continuous current I_{th} 10 A. |

- (1) Jumbo mushroom head (metal) is only available in colors green, black, red, and yellow.
 (2) A2 and A2R contact blocks cannot be stacked upon, but can stack on other contact blocks.
 (3) Snap action contact blocks only available with flush and extended head operators in the colors green, black, or red.

Momentary Contact Devices – Illuminated

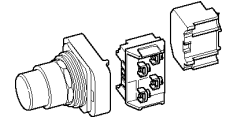


Extended Head Without Guard
Cat. No. 800T-PB16R



Extended Head without Guard
Cat. No. 800H-PRB16R

800 T - P B H 16 R
a b c d e f g h



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|-------------------|------------------------------|-----------|
| Power Module Type | | |
| 800T Code | Description | 800H Code |
| P | Transformer (or dual input) | PR |
| Q | Full voltage | QR |
| S | Operator only ⁽²⁾ | — |

| d | |
|-----------|-------------------------------|
| Head Type | |
| Code | Description |
| A | Extended head with guard |
| B | Extended head without guard |
| M | Mushroom ⁽¹⁾ |
| MJ | Jumbo mushroom ⁽¹⁾ |

- (1) Mushroom and jumbo mushroom head not available in yellow.
- (2) Operator only supplied without power module, lamp, lens cap, or contact blocks.

| e | |
|----------------------|---------------------------------------------|
| Illumination Options | |
| Code | Description |
| Blank | Incandescent |
| H | LED |
| Dual Input | |
| D | Diode type ⁽¹⁾ |
| T | Transformer – relay type ⁽²⁾ |
| TH | Transformer – relay type LED ⁽²⁾ |

| f | |
|-----------------------------|--------------------------|
| Voltage | |
| Code | Description |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| 46 | 480V AC, 50/60 Hz |
| 56 | 600V AC, 50/60 Hz |
| Full Voltage – Incandescent | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| 48 | 48V AC/DC |
| 10 | 120V AC/DC |
| 20 | 240V AC/DC |
| Full Voltage – LED | |
| 2 | 12...130V AC/DC |
| Dual Input | |
| 16 | 120V AC |
| 24 | 24V AC/DC ⁽³⁾ |
| Operator Only | |
| 00 | No power module |

| g | |
|------------|------------------------------------------------------------------------|
| Lens Color | |
| Code | Description |
| Blank | No lens with standard contacts 1 N.O. - 1 N.C. |
| X | No lens if any contacts other than standard 1 N.O. - 1 N.C is ordered. |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |
| Y | Yellow |

| h | |
|-------------------------------------------|-----------------|
| Contact Blocks | |
| Code | Description |
| X | No contacts |
| Standard | |
| Blank | 1 N.O. - 1 N.C. |
| D1 | 1 N.O. |
| PenTUFF (Low Voltage) | |
| AV | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Explosion-protected | |
| AF | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Logic Reed | |
| AR | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| AY | 1 N.O. - 1 N.C. |

- (1) Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
- (2) Dual input (transformer relay type) is not configurable with Class I Div. 2 contact blocks.
- (3) Dual-input diode only.

Momentary Contact Devices with Two-color Molded Legend Caps – Non-illuminated



Cat. No. 800T-A00 with
Cat. No. 800T-LC103W installed



Cat. No. 800H-BR00 with
Cat. No. 800T-LC604 installed

800 **T** **-** **A** **103W** **A**
 a b c d e

| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|---------------|---------------|-----------|
| Operator Type | | |
| 800T Code | Description | 800H Code |
| A | Flush head | AR |
| B | Extended head | BR |

| d | | | |
|----------------|-----------|-------|-------|
| Cap Text/Color | | | |
| Code | Text | Color | |
| | | Cap | Text |
| 101W | I | Green | White |
| 103W | START | | |
| 105W | ON | | |
| 121W | START / I | | |
| 202W | O | Black | White |
| 204W | STOP | | |
| 207W | RESET | | |
| 208W | ↑ | | |
| 209W | FORWARD | | |
| 210W | REVERSE | | |
| 212W | JOG | | |
| 213W | UP | | |
| 214W | DOWN | | |
| 215W | RAISE | | |
| 216W | LOWER | | |
| 217W | IN | | |
| 218W | OUT | | |
| 219W | HIGH | | |
| 220W | LOW | | |
| 222W | STOP / O | | |
| 501B | I | White | Black |
| 503B | START | | |
| 508B | ↑ | | |
| 521B | START / I | | |
| 602W | O | Red | White |
| 604W | STOP | | |
| 606W | OFF | | |
| 622W | STOP / O | | |
| 707W | RESET | Blue | White |
| 711W | R | | |

| e | |
|-----------------------|-----------------------|
| Contact Blocks | |
| Code | Description |
| Blank | No contacts |
| Standard | |
| D1 | 1 N.O. |
| D2 | 1 N.C. |
| D3 | 1 N.O.E.M. |
| D4 | 1 N.C.L.B. |
| D5 | 1 N.O. (Mini) |
| D6 | 1 N.C. (Mini) |
| A1 | 1 N.C.L.B. - 1 N.O. |
| A2 | 2 N.O. ⁽¹⁾ |
| A4 | 2 N.C. |
| A7 | 1 N.C.L.B. - 1 N.C. |
| A | 1 N.O. - 1 N.C. |
| B | 2 N.O. - 2 N.C. |
| PenTUFF (Low Voltage) | |
| D1V | 1 N.O. |
| D2V | 1 N.C. |
| D3V | 1 N.O.E.M. |
| D4V | 1 N.C.L.B. |
| AV | 1 N.O. - 1 N.C. |
| BV | 2 N.O. - 2 N.C. |

| e (cont'd) | |
|-------------------------------------------|-----------------------|
| Contact Blocks | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected | |
| AF | 1 N.O. - 1 N.C. |
| BF | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Logic Reed | |
| D1R | 1 N.O. |
| D2R | 1 N.C. |
| A2R | 2 N.O. ⁽¹⁾ |
| A4R | 2 N.C. |
| AR | 1 N.O. - 1 N.C. |
| BR | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| D1Y | 1 N.O. |
| D2Y | 1 N.C. |
| AY | 1 N.O. - 1 N.C. |
| BY | 2 N.O. - 2 N.C. |

(1) A2 and A2R contact blocks cannot be stacked upon, but can stack upon other contact blocks.

Operator Only

| Button Type | Type 4/13 | Type 4/4X/13 |
|-------------|-------------------------|--------------|
| | Cat. No. ⁽¹⁾ | Cat. No. |
| Flush | 800T-A00 | 800H-AR00 |
| Extended | 800T-B00 | 800H-BR00 |

(1) Operator only devices are supplied with no legend cap or contact blocks.

Legend Caps

| Text | Cap Color | Text Color | Pkg Qty | Cat. No. |
|---------|-------------|------------|---------|-------------|
| | Green | White | 1 | 800T-LC101W |
| START | | | | 800T-LC103W |
| ON | | | | 800T-LC105W |
| START / | | | | 800T-LC121W |
| 0 | | | | 800T-LC202W |
| STOP | 800T-LC204W | | | |
| RESET | 800T-LC207W | | | |
| ↑ | 800T-LC208W | | | |
| FORWARD | 800T-LC209W | | | |
| REVERSE | 800T-LC210W | | | |
| JOG | 800T-LC212W | | | |
| UP | 800T-LC213W | | | |
| DOWN | 800T-LC214W | | | |
| RAISE | 800T-LC215W | | | |
| LOWER | 800T-LC216W | | | |

| Text | Cap Color | Text Color | Pkg Qty | Cat. No. |
|----------|-----------|------------|---------|-------------|
| IN | Black | White | 1 | 800T-LC217W |
| OUT | | | | 800T-LC218W |
| HIGH | | | | 800T-LC219W |
| LOW | | | | 800T-LC220W |
| STOP / 0 | | | | 800T-LC222W |
| | White | Black | | 800T-LC501B |
| START | | | | 800T-LC503B |
| ↑ | | | | 800T-LC508B |
| START / | | | | 800T-LC521B |
| 0 | Red | White | | 800T-LC602W |
| STOP | | | | 800T-LC604W |
| OFF | | | | 800T-LC606W |
| STOP / 0 | | | | 800T-LC622W |
| RESET | Blue | White | | 800T-LC707W |
| R | | | | 800T-LC711W |

Contact Blocks

See [Contact Blocks on page 39](#) for a complete listing.

2-position – Non-illuminated



Standard Knob Operator
Cat. No. 800T-H2A

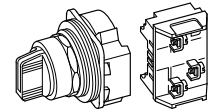


Knob Lever Operator
Cat. No. 800T-H17A



Standard Knob Operator
Cat. No. 800H-HR2A

800 T - HA 2 A
 a b c d e



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|-------------------------|------------------------------------------|-----------|
| Knob Insert Colors | | |
| 800T Code | Description | 800H Code |
| H | White | HR |
| HX | Packet of colored inserts ⁽¹⁾ | HRX |
| Metal Wing Lever Colors | | |
| HA | Red | – |
| HG | Gray | – |

(1) One insert of each color (blue, green, orange, red, and yellow).

| d | |
|---------------------------------|----------------------------------------|
| Operator Type and Function | |
| Code | Operator Function |
| Standard Knob | |
| 2 | Maintained |
| 4 | Spring return from left ⁽¹⁾ |
| 5 | Spring return from right |
| Knob Lever ⁽²⁾ | |
| 17 | Maintained |
| 18 | Spring return from left ⁽¹⁾ |
| 19 | Spring return from right |
| Metal Wing Lever ⁽²⁾ | |
| 11 | Maintained |
| 15 | Spring return from left ⁽¹⁾ |
| 16 | Spring return from right |
| Coin Slot ⁽²⁾ | |
| 6 | Maintained |
| 7 | Spring return from left |
| 8 | Spring return from right |

| e | | | |
|-------------------------------------------|-----------------------|------------|---|
| Contact Blocks | | | |
| Code | Contact Configuration | 2-position | |
| | | | |
| Blank | No contacts | – | – |
| Standard | | | |
| D1 | 1 N.O. | 0 | X |
| D2 | 1 N.C. | X | 0 |
| A | 1 N.O. - 1 N.C. | 0 | X |
| | | X | 0 |
| B | 2 N.O. - 2 N.C. | 0 | X |
| | | X | 0 |
| | | 0 | X |
| X | 0 | | |
| Code | Description | | |
| MaxDuty (Horsepower Rated) ⁽³⁾ | | | |
| D1M | 1 N.O. | | |
| D2M | 1 N.C. | | |
| PentUFF™ (Low Voltage) ⁽³⁾ | | | |
| D1V | 1 N.O. | | |
| D2V | 1 N.C. | | |
| AV | 1 N.O. - 1 N.C. | | |
| BV | 2 N.O. - 2 N.C. | | |

| e (cont'd) | |
|----------------------------------------------------------|-----------------|
| Contact Blocks | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected ⁽³⁾ | |
| AF | 1 N.O. - 1 N.C. |
| BF | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Logic Reed ⁽³⁾ | |
| D1R | 1 N.O. |
| D2R | 1 N.C. |
| AR | 1 N.O. - 1 N.C. |
| BR | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch ⁽³⁾ | |
| D1Y | 1 N.O. |
| D2Y | 1 N.C. |
| AY | 1 N.O. - 1 N.C. |
| BY | 2 N.O. - 2 N.C. |

(1) Target tables are reversed from what is shown in Table e.

(2) Only available on Bulletin 800T, Type 4/13 operators.

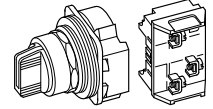
(3) Contact target tables are the same as standard contact blocks.

2-position Cylinder Lock (Bulletin 800T Only) – Non-illuminated



2-position Cylinder Lock Operator
Cat. No. 800T-H33A

800 T - H31 A
 a b c d e



| a | |
|-------------------|------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | |
|-------------------------------------|------------------------------------|
| Key Removal Position ⁽¹⁾ | |
| Code | Operator Function |
| Maintained | |
| H31 | Key removal – left |
| H32 | Key removal – right |
| H33 | Key removal – both |
| Spring Return from Left | |
| H42 | Key removal – right ⁽²⁾ |
| Spring Return from Right | |
| H48 | Key removal – left |

- (1) Keys removable from maintained positions only.
- (2) Target tables are reversed from what is shown in Table e.

| d | | | |
|-----------------------------------------------|------------------|------|------------------|
| Key Options for Cylinder Locks ⁽¹⁾ | | | |
| Code | T Series Key No. | Code | T Series Key No. |
| Blank | D018 (std. key) | 15 | T112 |
| 03 | D020 | 16 | T115 |
| 04 | D025 | 17 | T324 |
| 05 | D335 | 18 | T382 |
| 06 | D429 | 19 | T404 |
| 07 | D461 | 20 | T171 |
| 08 | D111 | 21 | T484 |
| 09 | D587 | 22 | T547 |
| 10 | D682 | 23 | T569 |
| 11 | D713 | 24 | T692 |
| 12 | D900 | 25 | T752 |
| 13 | D992 | 26 | T178 |
| 14 | D118 | | |

| e | | | |
|--------------------------------------------------|-----------------------|------------|-------------|
| Contact Blocks | | | |
| Code | Contact Configuration | 2-position | |
| | | Blank | No contacts |
| Standard | | | |
| D1 | 1 N.O. | 0 | X |
| D2 | 1 N.C. | X | 0 |
| A | 1 N.O. - 1 N.C. | 0 | X |
| | | X | 0 |
| B | 2 N.O. - 2 N.C. | 0 | X |
| | | X | 0 |
| | | 0 | X |
| X | 0 | | |
| Code Description | | | |
| MaxDuty (Horsepower Rated) ⁽²⁾ | | | |
| D1M | 1 N.O. | | |
| D2M | 1 N.C. | | |
| PenTUFF (Low Voltage) ⁽²⁾ | | | |
| D1V | 1 N.O. | | |
| D2V | 1 N.C. | | |
| AV | 1 N.O. - 1 N.C. | | |
| BV | 2 N.O. - 2 N.C. | | |

| e (cont'd) | |
|-----------------------------------------------------------------|-----------------|
| Contact Blocks | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected ⁽²⁾ | |
| AF | 1 N.O. - 1 N.C. |
| BF | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Logic Reed ⁽²⁾ | |
| D1R | 1 N.O. |
| D2R | 1 N.C. |
| AR | 1 N.O. - 1 N.C. |
| BR | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch ⁽²⁾ | |
| D1Y | 1 N.O. |
| D2Y | 1 N.C. |
| AY | 1 N.O. - 1 N.C. |
| BY | 2 N.O. - 2 N.C. |

- (1) Device is supplied with two keys. Replacement key part no. for standard D018 key is X-181170. See [page 54](#) for additional replacement key numbers.
- (2) Contact target tables are the same as standard contact blocks.

3-position – Non-illuminated



Standard Knob Operator
Cat. No. 800T-J2A

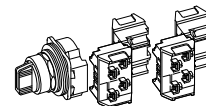


Knob Lever Operator
Cat. No. 800T-J17A



Standard Knob Operator
Cat. No. 800H-JR2A

800 T - J 2 C
 a b c d e f



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|-------------------------|------------------------------------------|-----------|
| Knob Insert Colors | | |
| 800T Code | Description | 800H Code |
| J | White | JR |
| JX | Packet of colored inserts ⁽¹⁾ | JRX |
| Metal Wing Lever Colors | | |
| JA | Red | – |
| JG | Gray | – |

(1) One insert of each color (blue, green, orange, red, and yellow).

| d | |
|-------------------------------------|--------------------------|
| Operator Type and Function | |
| Code | Operator Function |
| Standard Knob | |
| 2 | Maintained |
| 4 | Spring return from left |
| 5 | Spring return from right |
| 91 | Spring return from both |
| Knob Lever ^{(2) (3)} | |
| 17 | Maintained |
| 18 | Spring return from left |
| 19 | Spring return from right |
| 20 | Spring return from both |
| Metal Wing Lever ^{(2) (3)} | |
| 11 | Maintained |
| 15 | Spring return from left |
| 16 | Spring return from right |
| 141 | Spring return from both |
| Coin Slot ^{(2) (3)} | |
| 6 | Maintained |
| 7 | Spring return from left |
| 8 | Spring return from right |
| 10 | Spring return from both |

| e | |
|--------------------------------|------------------------|
| Cam Options ^{(1) (2)} | |
| Code | Description |
| Blank | KB7 cam (std.) |
| KA1 | KA1 cam |
| KA7 | KA7 cam |
| KC1 | KC1 cam |
| KC7 | KC7 cam |
| KD7 | KD7 cam |
| KE7 | KE7 cam ⁽⁴⁾ |
| KQ1 | KQ1 cam |
| KQ7 | KQ7 cam |
| KR1 | KR1 cam ⁽⁴⁾ |
| KR7 | KR7 cam ⁽⁴⁾ |
| KT1 | KT1 cam ⁽⁴⁾ |
| KT7 | KT7 cam ⁽⁴⁾ |
| KU7 | KU7 cam ⁽⁴⁾ |

| f | |
|-------------------------------|---------------------------------------------------------------------------|
| Contact Blocks ⁽¹⁾ | |
| Code | Description |
| Blank | No contacts on operator |
| Standard | |
| A | 1 N.O. - 1 N.C. One 800T-XA on white side |
| B | 2 N.O. - 2 N.C. Two 800T-XAs – 1 on white side/1 on black side |
| PenTUFF (Low Voltage) | |
| AV | 1 N.O. - 1 N.C. One 800T-XAV on white side |
| BV | 2 N.O. - 2 N.C. Two 800T-XAVs – 1 on white side/1 on black side |
| Class I, Div. 2 - Logic Reed | |
| AR | 1 N.O. - 1 N.C. One 800T-XAR on white side |
| BR | 2 N.O. - 2 N.C. Two 800T-XARs – 1 on white side/1 on black side |

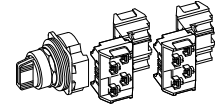
| f (cont'd) | |
|-------------------------------------------|----------------------------------------------------------------------------|
| Contact Blocks ⁽¹⁾ | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected | |
| AF | 1 N.O. - 1 N.C. One 800TC-XAF on white side |
| BF | 2 N.O. - 2 N.C. Two 800TC-XAFs – 1 on white side/1 on black side |
| Class I, Div. 2 - Stackable Sealed Switch | |
| AY | 1 N.O. - 1 N.C. One 800TC-XAY on white side |
| BY | 2 N.O. - 2 N.C. Two 800TC-XAYs – 1 on white side/1 on black side |

(1) See [Table 5 on page 19](#) for cam selections and associated targets.
 (2) If an overlapping cam is required, consult your local distributor.
 (3) Only available on Bulletin 800T, Type 4/13 operators.
 (4) Not available with wing levers.

3-position Cylinder Lock (Bulletin 800T Only) – Non-illuminated



3-position Cylinder Lock Operator
Cat. No. 800T-J41A



800 T - J41 KC1 A
 a b c d e f

| a | |
|-------------------|------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | |
|----------------------|--------------------------------|
| Key Removal Position | |
| Code | Operator Function |
| Maintained | |
| J41 | Key removal – left |
| J42 | Key removal – center |
| J43 | Key removal – right |
| J44 | Key removal – all |
| J45 | Key removal – left and center |
| J46 | Key removal – right and left |
| J47 | Key removal – right and center |

| c (cont'd) | |
|---------------------------------|--------------------------------|
| Key Removal Position | |
| Code | Operator Function |
| Spring Return from Left | |
| J50 | Key removal – center |
| J52 | Key removal – right |
| J51 | Key removal – right and center |
| Spring Return from Right | |
| J69 | Key removal – left |
| J38 | Key removal – center |
| J73 | Key removal – left and center |
| Spring Return from Both | |
| J631 | Key removal – center |

| d | | | |
|-----------------------------------------------|------------------|------|------------------|
| Key Options for Cylinder Locks ⁽¹⁾ | | | |
| Code | T Series Key No. | Code | T Series Key No. |
| Blank | D018 (std. key) | 15 | T112 |
| 03 | D020 | 16 | T115 |
| 04 | D025 | 17 | T324 |
| 05 | D335 | 18 | T382 |
| 06 | D429 | 19 | T404 |
| 07 | D461 | 20 | T171 |
| 08 | D111 | 21 | T484 |
| 09 | D587 | 22 | T547 |
| 10 | D682 | 23 | T569 |
| 11 | D713 | 24 | T692 |
| 12 | D900 | 25 | T752 |
| 13 | D992 | 26 | T178 |
| 14 | D118 | | |

| e | |
|--------------------------------|----------------|
| Cam Options ^{(2) (3)} | |
| Code | Description |
| Blank | KB7 cam (std.) |
| KA1 | KA1 cam |
| KA7 | KA7 cam |
| KC1 | KC1 cam |
| KC7 | KC7 cam |
| KD7 | KD7 cam |
| KE7 | KE7 cam |
| KQ1 | KQ1 cam |
| KQ7 | KQ7 cam |
| KR1 | KR1 cam |
| KR7 | KR7 cam |
| KT1 | KT1 cam |
| KT7 | KT7 cam |
| KU7 | KU7 cam |

| f | |
|-------------------------------------|---------------------------------------------------------------------------|
| Contact Blocks ⁽³⁾ | |
| Code | Contact Configuration |
| Blank | No contacts |
| Standard | |
| A | 1 N.O. - 1 N.C. One 800T-XA on white side |
| B | 2 N.O. - 2 N.C. Two 800T-XAs – 1 on white side/1 on black side |
| PenTUFF (Low Voltage) | |
| AV | 1 N.O. - 1 N.C. One 800T-XAV on white side |
| BV | 2 N.O. - 2 N.C. Two 800T-XAVs – 1 on white side/1 on black side |
| Class I, Div. 2 – Logic Reed | |
| AR | 1 N.O. - 1 N.C. One 800T-XAR on white side |
| BR | 2 N.O. - 2 N.C. Two 800T-XARs – 1 on white side/1 on black side |

| f (cont'd) | |
|--------------------------------------------------|----------------------------------------------------------------------------|
| Contact Blocks ⁽³⁾ | |
| Code | Contact Configuration |
| Class I, Div. 2 – Explosion-protected | |
| AF | 1 N.O. - 1 N.C. One 800TC-XAF on white side |
| BF | 2 N.O. - 2 N.C. Two 800TC-XAFs – 1 on white side/1 on black side |
| Class I, Div. 2 – Stackable Sealed Switch | |
| AY | 1 N.O. - 1 N.C. One 800T-XAY on white side |
| BY | 2 N.O. - 2 N.C. Two 800T-XAYs – 1 on white side/1 on black side |

(1) Device is supplied with two keys. Replacement key part no. for standard D018 key is X-181170. Consult your local distributor for additional replacement key numbers.
 (2) If an overlapping cam is required, consult your local distributor.
 (3) See [Table 5 on page 19](#) for cam selections and associated targets.

4-position – Non-illuminated



Standard Knob Operator
Cat. No. 800T-N2KN4B

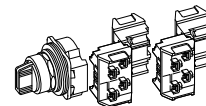


Knob Lever Operator
Cat. No. 800T-N17KN4B



Standard Knob Operator
Cat. No. 800H-NR2KF4AAXX

800 T - N 2 KF4 B
 a b c d e f



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | | |
|-------------------------|------------------------------------------|-----------|
| Knob Insert Colors | | |
| 800T Code | Description | 800H Code |
| N | White | NR |
| NX | Packet of colored inserts ⁽¹⁾ | NRX |
| Metal Wing Lever Colors | | |
| NA | Red | — |
| NG | Gray | — |

(1) One insert of each color (blue, green, orange, red, and yellow).

| d | |
|---------------------------------|---------------------------------------------|
| Operator Type and Function | |
| Code | Operator Function |
| Standard Knob | |
| 2 | Maintained |
| 3 | Spring return from position 1 to position 2 |
| 9 | Spring return from position 4 to position 3 |
| Knob Lever ⁽⁴⁾ | |
| 17 | Maintained |
| 29 | Spring return from position 1 to position 2 |
| 30 | Spring return from position 4 to position 3 |
| Metal Wing Lever ⁽⁴⁾ | |
| 11 | Maintained |
| 13 | Spring return from position 1 to position 2 |
| 14 | Spring return from position 4 to position 3 |

| e | |
|----------------------------|--------------------------------|
| Cam Options ⁽¹⁾ | |
| Code | Description |
| KF4 | F cam |
| KG4 | G cam |
| KK4 | K cam ⁽²⁾ |
| KM4 | M cam ⁽²⁾ |
| KP4 | P cam |
| KN4 | Overlapping cam ⁽³⁾ |

| f | |
|-------------------------------|-----------------------------------------------------------------------------|
| Contact Blocks ⁽¹⁾ | |
| Code | Contact Configuration |
| Blank | No contacts |
| Standard | |
| B | 2 N.O. - 2 N.C. Two 800T-XA s – 1 on white side/1 on black side |
| H | 3 N.O. - 3 N.C. Three 800T-XA s – 2 on white side/1 on black side |
| C | 4 N.O. - 4 N.C. Four 800T-XA s – 2 on white side/2 on black side |

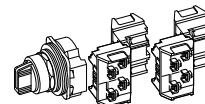
| f (cont'd) | |
|-------------------------------------------|-----------------------|
| Contact Blocks ⁽¹⁾ | |
| Code | Contact Configuration |
| PenTUFF (Low Voltage) | |
| BV | 2 N.O. - 2 N.C. |
| HV | 3 N.O. - 3 N.C. |
| CV | 4 N.O. - 4 N.C. |
| Class I, Div. 2 - Explosion-protected | |
| BF | 2 N.O. - 2 N.C. |
| HF | 3 N.O. - 3 N.C. |
| CF | 4 N.O. - 4 N.C. |
| Class I, Div. 2 - Logic Reed | |
| BR | 2 N.O. - 2 N.C. |
| HR | 3 N.O. - 3 N.C. |
| CR | 4 N.O. - 4 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| BY | 2 N.O. - 2 N.C. |
| HY | 3 N.O. - 3 N.C. |
| CY | 4 N.O. - 4 N.C. |

(1) See [Table 6 on page 19](#) for cam selections and associated targets.
 (2) Not available with wing levers.
 (3) If an overlapping cam is required, consult your local distributor.
 (4) Only available on Bulletin 800T, Type 4/13 operators.

4-position Cylinder Lock (Bulletin 800T Only) – Non-illuminated



4-position Cylinder Lock Operator
Cat. No. 800T-N32KF4B



800 T - N31 KM4 C
 a b c d e f

| a | |
|-------------------|------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | |
|----------------------|---------------------------|
| Key Removal Position | |
| Code | Operator Function |
| Maintained | |
| N31 | Key removal position 1 |
| N32 | Key removal position 2 |
| N33 | Key removal position 3 |
| N34 | Key removal position 4 |
| N61 | Key removal all positions |

| c (cont'd) | |
|----------------------------------------------------|-----------------------------------|
| Key Removal Position | |
| Code | Operator Function |
| Spring Return From Position 1 to Position 2 | |
| N132 | Key removal position 2 |
| N133 | Key removal position 3 |
| N134 | Key removal position 4 |
| N154 | Key removal positions 2, 3, and 4 |
| Spring Return From Position 4 to Position 3 | |
| N231 | Key removal position 1 |
| N232 | Key removal position 2 |
| N233 | Key removal position 3 |
| N251 | Key removal positions 1, 2, and 3 |

| d | | | |
|------------------------------------|------------------|------|------------------|
| Key Options for Cylinder Locks (1) | | | |
| Code | T Series Key No. | Code | T Series Key No. |
| Blank | D018 (std. key) | 15 | T112 |
| 03 | D020 | 16 | T115 |
| 04 | D025 | 17 | T324 |
| 05 | D335 | 18 | T382 |
| 06 | D429 | 19 | T404 |
| 07 | D461 | 20 | T171 |
| 08 | D111 | 21 | T484 |
| 09 | D587 | 22 | T547 |
| 10 | D682 | 23 | T569 |
| 11 | D713 | 24 | T692 |
| 12 | D900 | 25 | T752 |
| 13 | D992 | 26 | T178 |
| 14 | D118 | | |

| e | |
|-----------------|---------------------|
| Cam Options (2) | |
| Code | Description |
| KF4 | F cam |
| KG4 | G cam |
| KK4 | K cam |
| KM4 | M cam |
| KP4 | P cam |
| KN4 | Overlapping cam (3) |

| f | |
|------------------------------|------------------------------------------------------------------------------|
| Contact Blocks (2) | |
| Code | Description |
| Blank | No contacts |
| Standard | |
| B | 2 N.O. - 2 N.C. Two 800T-XA s – 1 on white side/1 on black side |
| H | 3 N.O. - 3 N.C. Three 800T-XA s – 2 on white side/1 on black side |
| C | 4 N.O. - 4 N.C. Four 800T-XA s – 2 on white side/2 on black side |
| PentUFF (Low Voltage) | |
| BV | 2 N.O. - 2 N.C. Two 800T-XAV s – 1 on white side/1 on black side |
| HV | 3 N.O. - 3 N.C. Three 800T-XAV s – 2 on white side/1 on black side |
| CV | 4 N.O. - 4 N.C. Four 800T-XAV s – 2 on white side/2 on black side |

| f (cont'd) | |
|--------------------------------------------------|-----------------|
| Contact Blocks (2) | |
| Code | Description |
| Class I, Div. 2 – Explosion-protected | |
| BF | 2 N.O. - 2 N.C. |
| HF | 3 N.O. - 3 N.C. |
| CF | 4 N.O. - 4 N.C. |
| Class I, Div. 2 – Logic Reed | |
| BR | 2 N.O. - 2 N.C. |
| HR | 3 N.O. - 3 N.C. |
| CR | 4 N.O. - 4 N.C. |
| Class I, Div. 2 – Stackable Sealed Switch | |
| BY | 2 N.O. - 2 N.C. |
| HY | 3 N.O. - 3 N.C. |
| CY | 4 N.O. - 4 N.C. |

(1) Device is supplied with two keys. Replacement key part no. for standard D018 key is X-181170. Consult your local Allen-Bradley distributor for additional replacement key numbers.
 (2) See [Table 6 on page 19](#) for cam selections and associated targets.
 (3) If an overlapping cam is required, consult your local distributor.

2-position Knob/Lever Type – Illuminated

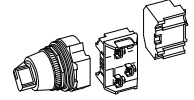


Standard Knob Operator
Cat. No. 800T-16HR2KB6AX



Knob Lever Operator
Cat. No. 800H-16HRR17KB6AX

800 T - 16 H R 2 KB6 A X
a b c d e f g h i j



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | |
|----------------------------------------------|-------------------|
| Power Module Type and Voltage ⁽¹⁾ | |
| Code | Description |
| Full Voltage – Incandescent | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| 48 | 48V AC/DC |
| Full Voltage – LED | |
| 2 | 12...130V AC/DC |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| Operator Only ⁽²⁾ | |
| 00 | No power module |

| d | | |
|------------------|-------------|-----------|
| No. of Positions | | |
| 800T Code | Description | 800H Code |
| H | 2-position | HR |

| e | |
|------------|-------------|
| Knob Color | |
| Code | Description |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |
| X | No knob |

- (1) For other voltages, consult your local distributor.
 (2) Operator only supplied without power module, lamp, lens cap, or contact blocks.

| f | |
|----------------------|--------------|
| Illumination Options | |
| Code | Description |
| Blank | Incandescent |
| H | LED |

| g | |
|---------------------------------|--------------------------|
| Operator Function and Knob Type | |
| Code | Operator Function |
| Standard Knob or No Knob | |
| 2 | Maintained |
| 4 | Spring return from left |
| 5 | Spring return from right |
| Knob Lever | |
| 17 | Maintained |
| 18 | Spring return from left |
| 19 | Spring return from right |

| h | |
|--------------------------|-------------------|
| Cam Options (2-position) | |
| Code | Operator Function |
| KB6 | Maintained cam |
| KL8 | Spring return cam |

| i, j | |
|--------------------------------------------------|------------------------------|
| Contact Blocks ⁽¹⁾ | |
| Code | Description |
| Blank (both pos.) | No contacts |
| Standard | |
| D | 1 N.O. |
| E | 1 N.C. |
| A | 1 N.O. - 1 N.C. |
| X | No contacts in this position |
| PenTUFF (Low Voltage) | |
| H | 1 N.O. |
| U | 1 N.C. |
| F | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Explosion-protected | |
| O | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Logic Reed | |
| V | 1 N.O. |
| W | 1 N.C. |
| T | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| 5 | 1 N.O. |
| 6 | 1 N.C. |
| 7 | 1 N.O. - 1 N.C. |

Table 7 - Selector Switch Cam Targets

| Cam Description (2-position) | | |
|------------------------------|---|-----------------------------------|
| Target | | Contact Block Code ⁽²⁾ |
| | | |
| O | X | D, H, V, R, 5 |
| X | O | E, U, W, S, 6 |

X = Closed/O = Open

- (1) Contact blocks are used on white side only.
 (2) Target tables are reversed for spring return from left operators.

Table 8 - Contact Block Code Reduction Rules

| Contact Block Substitution | |
|----------------------------|------|
| Combination | Code |
| Standard | |
| D + E | A |
| D + D | M |
| E + E | N |

3-position Knob/Lever Type – Illuminated

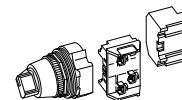


Standard Knob Operator
Cat. No. 800T-16JR2KB7AX



Standard Knob Operator
Cat. No. 800H-16JRR2KB7AX

800 **T** - **16** **J** **R** **2** **KB7** **A** **X**
 a b c d e f g h i j



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|--------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guard on terminals |

| c | |
|----------------------------------------------|-------------------|
| Power Module Type and Voltage ⁽¹⁾ | |
| Code | Description |
| Full Voltage – Incandescent | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| 48 | 48V AC/DC |
| Full Voltage – LED | |
| 2 | 12...130V AC/DC |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| Operator Only ⁽²⁾ | |
| 00 | No power module |

| d | | |
|------------------|-------------|-----------|
| No. of Positions | | |
| 800T Code | Description | 800H Code |
| J | 2-position | JR |

| e | |
|------------|-------------|
| Knob Color | |
| Code | Description |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |
| X | No knob |

- (1) For other voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.
- (2) Operator only supplied without power module, lamp, lens cap, or contact blocks.

| f | |
|----------------------|--------------|
| Illumination Options | |
| Code | Description |
| Blank | Incandescent |
| H | LED |

| g | |
|---------------------------------|--------------------------|
| Operator Function and Knob Type | |
| Code | Operator Function |
| Standard Knob or No Knob | |
| 2 | Maintained |
| 4 | Spring return from left |
| 5 | Spring return from right |
| 91 | Spring return from both |
| Knob Lever | |
| 17 | Maintained |
| 18 | Spring return from left |
| 19 | Spring return from right |
| 20 | Spring return from both |

| h | |
|--------------------------|-------------|
| Cam Options (3-position) | |
| Code | Description |
| KB7 | B7 cam |
| KC1 | C1 cam |
| KC7 | C7 cam |
| KE7 | E7 cam |
| KQ1 | Q1 cam |
| KT1 | T1 cam |

| i, j | |
|--------------------------------------------------|------------------------------|
| Contact Blocks ⁽¹⁾ | |
| Code | Description |
| Blank (both pos.) | No contacts |
| Standard | |
| A | 1 N.O. - 1 N.C. |
| X | No contacts in this position |
| PentTUFF (Low Voltage) | |
| F | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Explosion-protected | |
| O | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Logic Reed | |
| T | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| 7 | 1 N.O. - 1 N.C. |

- (1) Contact blocks are used on white side only.

Table 9 - Selector Switch Cam Targets

| Target | | | Cam Description (3-position) | | | | | |
|--------|-----|-----|------------------------------|---------------|---------------|---------------|---------------|---------------|
| KB7 | KC1 | KC7 | KE7 | KQ1 | KT1 | | | |
| X | O | O | D, H, V, R, 5 | – | D, H, V, R, 5 | D, H, V | – | E, U, W, S, 6 |
| O | X | O | – | E, U, W, S, 6 | E, U, W, S, 6 | – | E, U, W, S, 6 | – |
| O | O | X | E, U, W, S, 6 | D, H, V, R, 5 | – | – | – | D, H, V, R, 5 |
| X | X | O | G, I | J, Q | – | – | – | J, Q |
| O | X | X | J, Q | – | J, Q | E, U, W, S, 6 | – | – |
| X | O | X | – | G, I | G, I | – | D, H, V, R, 5 | – |

X = Closed/O = Open

Pilot Light Devices



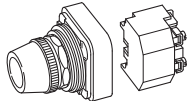
Transformer Type Pilot Light
Cat. No. 800T-P16R



Push-to-test Pilot Light
Cat. No. 800T-PT16R

800 T - P T 16 G AR
 a b c d e f g h

(Push-to-test)



| a | |
|----------------------------------|-----------------------|
| Protection Rating ⁽¹⁾ | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| c | | |
|-------------------|------------------------------|-----------|
| Power Module Type | | |
| 800T Code | Description | 800H Code |
| P | Transformer (or dual input) | PR |
| Q | Full voltage | QR |
| S | Operator only ⁽⁶⁾ | SR |

| d | |
|-------------------|-----------------------------------------------|
| Lamp Test Options | |
| Code | Description |
| Blank | No test option ⁽²⁾ |
| T | Push-to-test ⁽³⁾ |
| D | Dual input – diode ⁽⁴⁾⁽⁵⁾ |
| DT | Dual input – transformer relay ⁽⁵⁾ |

- (1) All pilot lights except push-to-test without sealed contacts and dual-input transformer relay, are rated for Class I, Division 2 applications.
- (2) Non-push-to-test pilot lights using the universal LED option cannot be ordered as Bulletin 800HC or 800TC. The terminals are fingersafe as standard.
- (3) Push-to-test supplied with factory jumpered contact block. For typical pilot light wiring diagrams, see [page 23](#).
- (4) Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
- (5) Dual-input devices (diode or transformer type) cannot be ordered as Bulletin 800HC or 800TC. Fingersafe terminal guards are not available.
- (6) Operator-only supplied without power module, lamp, or lens. For push-to-test operator-only, order [Momentary Contact Devices – Illuminated on page 10](#).

| e | |
|----------------------|--------------------|
| Illumination Options | |
| Code | Description |
| Blank | Incandescent |
| H | LED ⁽²⁾ |

| f | |
|-----------------------------|-----------------------------------|
| Voltage | |
| Code | Description |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| 46 | 480V AC, 50/60 Hz |
| 56 | 600V AC, 50/60 Hz |
| Full Voltage – Incandescent | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| 48 | 48V AC/DC |
| 10 | 120V AC/DC |
| 20 | 240V AC/DC |
| Full Voltage – LED | |
| 2 | 12...130V AC/DC |
| Dual Input | |
| 16 | 120V AC |
| 24 | 24V AC/DC (dual-input diode only) |
| Operator Only | |
| 00 | No power module |

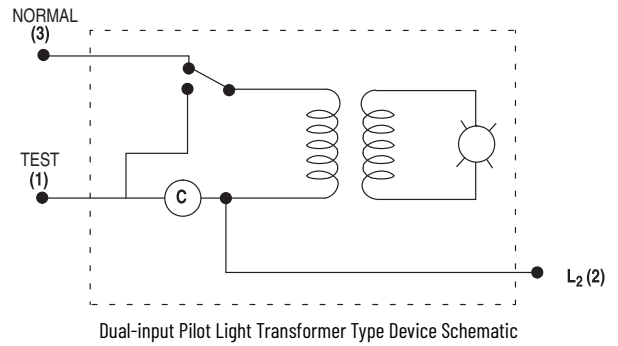
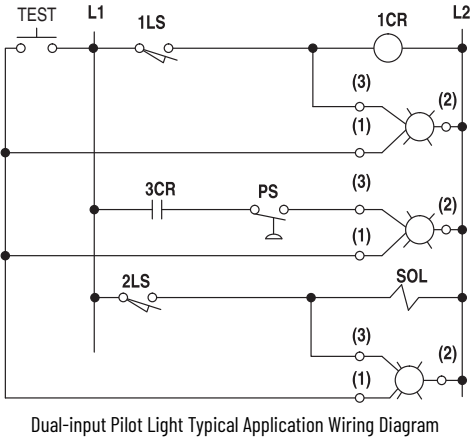
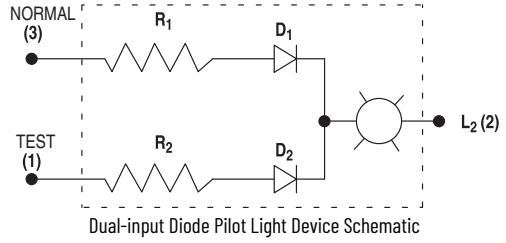
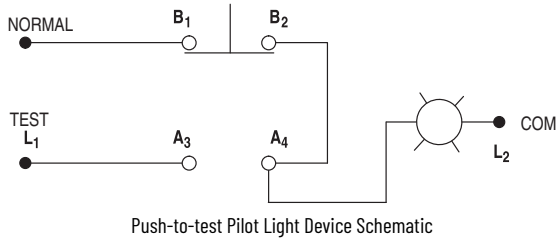
| g | | |
|------------|-------------|---------------------------|
| Lens Color | | |
| Code | Description | Glass Code ⁽¹⁾ |
| Blank | No lens | Blank |
| A | Amber | D |
| B | Blue | E |
| C | Clear | F |
| G | Green | H |
| R | Red | J |
| W | White | K |
| Y | Yellow | – |

| h | |
|-------------------------------------------|-----------------|
| Contact Blocks (Push-to-test Units Only) | |
| Code | Description |
| Standard | |
| Blank | 1 N.O. - 1 N.C. |
| PenTUFF™ (Low Voltage) | |
| AV | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Explosion-protected | |
| AF | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Logic Reed | |
| AR | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| AY | 1 N.O. - 1 N.C. |

- (1) Glass lens available on 800T pilot lights only. Not available on push-to-test units.
- (2) LED illumination option is not available with diode type dual input.

Typical Pilot Light Wiring Diagrams

IMPORTANT See applicable codes and laws.



Push-pull and Push-pull/Twist Release Devices

2-position – Non-illuminated



A jumbo or large legend plate is recommended, if space allows.



2-position Push-pull
Cat. No. 800T-FX6D4



2-position Metal Push-pull
Cat. No. 800TC-FXLE6D4S

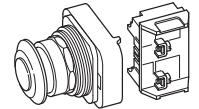


2-position Push-pull/Twist
Cat. No. 800T-FXT6D4



2-position Push-pull/Twist
Cat. No. 800H-FRXT6D4

800 **T** **-** **FX** **1** **A1**
 a b c d e



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| c | | |
|-----------|---------------------------------------------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| FX | Mushroom head (push-pull) | – |
| FXC | 90 mm anodized aluminum head (push-pull) ⁽³⁾ | – |
| FXJ | Jumbo mushroom head (push-pull) | – |
| FXJE | Jumbo mushroom head (push-pull) with E-stop ⁽⁴⁾ | – |
| FXL | 63 mm anodized aluminum head (push-pull) ⁽⁵⁾ | – |
| FXLE | 63 mm anodized aluminum head (push-pull) with E-stop ⁽⁴⁾ | – |
| FXT | Push-pull/twist-to-release | FRXT |
| FXJT | Jumbo head push-pull with twist-to-release | FRXJT |

| d | |
|-----------|-----------------------|
| Color Cap | |
| Code | Description |
| Blank | No cap ⁽²⁾ |
| 1 | Green |
| 2 | Black |
| 3 | Orange |
| 4 | Gray |
| 5 | White |
| 6 | Red |
| 7 | Blue |
| 8 | Gold |
| 9 | Yellow |

| e | | | |
|-------------------------------|-------------------|--------|------------------------------------|
| Contact Blocks ⁽¹⁾ | | | |
| Code | Operator Position | | Description |
| | | | |
| Blank | – | – | No contacts |
| Standard | | | |
| D1 | 0 | X | 1 N.O. |
| D2 | X | 0 | 1 N.C. |
| D4 | X | 0 | 1 N.C.L.B. ⁽⁶⁾ |
| A | 0 X | X 0 | 1 N.O. - 1 N.C. |
| A1 | 0 X | X 0 | 1 N.O. - 1 N.C.L.B. ⁽⁶⁾ |
| A5 | X X | 0 0 | 2 N.C.L.B. ⁽⁶⁾⁽⁷⁾ |
| PenTUFF™ (Low Voltage) | | | |
| D1V | 0 | X | 1 N.O. |
| D2V | X | 0 | 1 N.C. |
| D4V | X | 0 | 1 N.C.L.B. |
| AV | 0 X | X 0 | 1 N.O. - 1 N.C. |

| e (cont'd) | | | |
|-------------------------------------------|-------------------|------------------|-----------------|
| Contact Blocks | | | |
| Code | Operator Position | | Description |
| | | | |
| Blank | – | – | No contacts |
| Class I, Div. 2 – Explosion-protected | | | |
| AF | 0 X | X 0 | 1 N.O. - 1 N.C. |
| BF | 0 X 0 X | X 0 0 X | 2 N.O. - 2 N.C. |
| Class I, Div. 2 – Logic Reed | | | |
| D1R | 0 | X | 1 N.O. |
| D2R | X | 0 | 1 N.C. |
| AR | 0 X | X 0 | 1 N.O. - 1 N.C. |
| Class I, Div. 2 – Stackable Sealed Switch | | | |
| D1Y | 0 | X | 1 N.O. |
| D2Y | X | 0 | 1 N.C. |
| AY | 0 X | X 0 | 1 N.O. - 1 N.C. |

X = Closed/0 = Open

(1) Devices with N.C.L.B. contacts meet EN ISO 13850 and IEC 60947-5-5 standards for emergency stop applications.

(2) Only valid with Head Types FX, FXT, and FRXT.

(3) Head Type FXC only available in red and gold.

(4) Head Types FXJE and FXLE only available in red. "E-stop" on cap is not compliant with EN ISO 13850.

(5) Head Type FXL only available in blue, red, and gold.

(6) Normally closed late break contact. When button is pushed from the OUT to IN position, the mechanical detent action of the operator occurs before electrical contacts change state. When the button is pulled from the IN in the OUT position, the electrical contacts change state before the mechanical detent occurs.

(7) Two Cat. No. 800T-XD4 contact blocks supplied.

3-position – Non-illuminated

IMPORTANT A jumbo or large legend plate is recommended, if space allows.

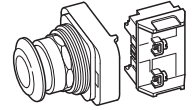


3-position Push-pull
Cat. No. 800T-FXM6A7



3-position Push-pull
Cat. No. 800H-FRXM6A7

800 **T** **-** **FX** **M** **1** **A7**
 a b c d e f



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| c | | |
|-----------|---------------------------------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| FX | Mushroom head (push-pull) | FRX |
| FXC | 90 mm anodized aluminum head (push-pull) ⁽¹⁾ | – |
| FXJ | Jumbo mushroom head (push-pull) | FRXJ |
| FXL | 63 mm anodized aluminum head (push-pull) ⁽²⁾ | – |

| d | | | |
|-------------------|-------------------|------------|------------|
| Operator Function | | | |
| Code | Operator Position | | |
| | | | |
| M | Momentary | Maintained | Maintained |
| N | Momentary | Maintained | Momentary |

- (1) Head Type FXC only available in red and gold.
- (2) Head Type FXL only available in blue, red, and gold.

| e | |
|-----------|-----------------------|
| Color Cap | |
| Code | Description |
| Blank | No cap ⁽¹⁾ |
| 1 | Green |
| 2 | Black |
| 3 | Orange |
| 4 | Gray |
| 5 | White |
| 6 | Red |
| 7 | Blue |
| 8 | Gold |
| 9 | Yellow |

| f | | | | |
|----------------|-------------------|------------------|------------------|---------------------|
| Contact Blocks | | | | |
| Code | Operator Position | | | Description |
| | | | | |
| Blank | – | – | – | No contacts |
| Standard | | | | |
| A | 0 X | 0 0 | X 0 | 1 N.O. - 1 N.C. |
| A1 | 0 X | 0 X | X 0 | 1 N.O. - 1 N.C.L.B. |
| A7 | X X | 0 X | 0 0 | 1 N.C. - 1 N.C.L.B. |
| B6 | X X X X | 0 X 0 X | 0 0 0 0 | 2 N.C. - 2 N.C.L.B. |

| f (cont'd) | | | | |
|-------------------------------------------|-------------------|--------|--------|-----------------|
| Contact Blocks | | | | |
| Code | Operator Position | | | Description |
| | | | | |
| Blank | – | – | – | No contacts |
| PenTUFF (Low Voltage) | | | | |
| AV | 0 X | 0 0 | X 0 | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Explosion-protected | | | | |
| AF | 0 X | 0 0 | X 0 | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Logic Reed | | | | |
| AR | 0 X | 0 0 | X 0 | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | | | | |
| AY | 0 X | 0 0 | X 0 | 1 N.O. - 1 N.C. |

X = Closed/0 = Open

- (1) Only valid with Head Types FX and FRX.

2-position – Illuminated

IMPORTANT A jumbo or large legend plate is recommended, if space allows.



2-position Push-pull
Cat. No. 800T-FXP16RA1



2-position Push-pull
Cat. No. 800T-FXJEP16RA1

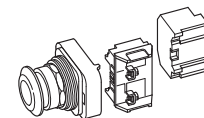


2-position Push-pull/Twist
Cat. No. 800T-FXTP16RA1



2-position Push-pull/Twist
Cat. No. 800H-FRXT16RA1

800 **T** **-** **FX** **PH** **16** **R** **A1**
 a b c d e f g



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| c | | |
|-----------|--------------------------------------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| FX | Mushroom head with metal ring (push-pull) | – |
| FXJ | Jumbo mushroom head (push-pull) | – |
| FXJE | Jumbo mushroom head with “E-stop” (push-pull) ⁽¹⁾ | – |

| c (cont'd) | | |
|------------|----------------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| FXR | Mushroom head, all plastic (push-pull) | – |
| FXT | Push-pull/twist release | FRXT |
| FXJT | Jumbo head push-pull/twist release | FRXJT |

(1) “E-stop” on cap is not compliant with EN ISO 13850.

| d | |
|----------------------|--------------------------------|
| Illumination Options | |
| Code | Description |
| Transformer | |
| P | Incandescent |
| PH | LED |
| Full Voltage | |
| Q | Incandescent |
| QH | Universal LED |
| Dual Input | |
| D | Diode type ⁽²⁾ |
| DT | Transformer – relay type |
| DTH | Transformer – relay type LED |
| Operator Only | |
| S | No power module ⁽³⁾ |

| e | |
|-----------------|-----------------------------------|
| Voltage | |
| Code | Description |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| 46 | 480V AC, 50/60 Hz |
| 56 | 600V AC, 50/60 Hz |
| Full Voltage | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| 48 | 48V AC/DC |
| 10 | 120V AC/DC |
| 20 | 240V AC/DC |
| Universal – LED | |
| 2 | 12...130V AC/DC |
| Dual Input | |
| 16 | 120V AC |
| 24 | 24V AC/DC (dual-input diode only) |
| Operator Only | |
| 00 | – |

| f | |
|-----------|-------------------------------------|
| Color Cap | |
| Code | Description |
| X | No cap (not valid with jumbo heads) |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |

| g | | |
|-------------------------------|---------------------------|---|
| Contact | | |
| | N.O. | 0 |
| N.C./N.C.L.B. | X | 0 |
| X = Closed/0 = Open | | |
| Contact Blocks ⁽¹⁾ | | |
| Code | Description | |
| Blank | No contacts | |
| Standard | | |
| D1 | 1 N.O. | |
| D2 | 1 N.C. | |
| D4 | 1 N.C.L.B. | |
| A | 1 N.O. - 1 N.C. | |
| A1 | 1 N.O. - 1 N.C.L.B. | |
| A5 | 2 N.C.L.B. ⁽⁴⁾ | |
| PenTUFF (Low Voltage) | | |
| D1V | 1 N.O. | |
| D2V | 1 N.C. | |
| D4V | 1 N.C.L.B. | |
| AV | 1 N.O. - 1 N.C. | |

| g (cont'd) | |
|-------------------------------------------|-----------------|
| Contact Blocks | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected | |
| AF | 1 N.O. - 1 N.C. |
| G1F | 2 N.O. - 2 N.C. |
| Class I, Div. 2 - Logic Reed | |
| D1R | 1 N.O. |
| D2R | 1 N.C. |
| AR | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| D1Y | 1 N.O. |
| D2Y | 1 N.C. |
| AY | 1 N.O. - 1 N.C. |

(1) Devices with N.C.L.B. contacts meet EN ISO 13850 and IEC 60947-5-5 standards for emergency stop applications.
 (2) Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
 (3) Operator-only option supplied without power module, lamp, or lens.
 (4) Two stacked Cat. No. 800T-XD4 contacts blocks are supplied.

3-position – Illuminated

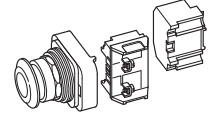


3-position Push-pull
Cat. No. 800T-FXMP16RA7



3-position Push-pull
Cat. No. 800H-FRXMP16A7

800 **T** **-** **FX** **M** **PH** **16** **R** **A1**
 a b c d e f g h



| a | |
|-------------------|-----------------------|
| Protection Rating | |
| Code | Description |
| T | Metal, Type 4/13 |
| H | Plastic, Type 4/4X/13 |

| b | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| c | | |
|-----------|---------------------------------|-----------|
| Head Type | | |
| 800T Code | Description | 800H Code |
| FX | Mushroom head (push-pull) | FRX |
| FXJ | Jumbo mushroom head (push-pull) | FRXJ |

| d | | | |
|-------------------|-------------------|------------|------------|
| Operator Function | | | |
| Code | Operator Position | | |
| | | | |
| | Out | Ctr. | In |
| M | Momentary | Maintained | Maintained |
| N | Momentary | Maintained | Momentary |

| e | |
|----------------------|--------------------------------|
| Illumination Options | |
| Code | Description |
| Transformer | |
| P | Incandescent |
| PH | LED |
| Full Voltage | |
| Q | Incandescent |
| QH | Universal LED |
| Dual Input | |
| D | Diode type ⁽¹⁾ |
| DT | Transformer – relay type |
| DTH | Transformer – relay type LED |
| Operator Only | |
| S | No power module ⁽²⁾ |

| f | |
|-----------------|-----------------------------------|
| Voltage | |
| Code | Description |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |
| 26 | 240V AC, 50/60 Hz |
| 46 | 480V AC, 50/60 Hz |
| 56 | 600V AC, 50/60 Hz |
| Full Voltage | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| 48 | 48V AC/DC |
| 10 | 120V AC/DC |
| 20 | 240V AC/DC |
| Universal – LED | |
| 2 | 12...130V AC/DC |
| Dual Input | |
| 16 | 120V AC |
| 24 | 24V AC/DC (dual-input diode only) |
| Operator Only | |
| 00 | – |

| g | |
|-----------|-------------------------------------|
| Color Cap | |
| Code | Description |
| X | No cap (not valid with jumbo heads) |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |

| h | | | |
|-------------------------------------------|-------------------------|------|----|
| Target | | | |
| Contact | | | |
| | Out | Ctr. | In |
| N.O. | 0 | 0 | X |
| N.C. | X | 0 | 0 |
| N.C.L.B. | X | X | 0 |
| Contact Blocks | | | |
| Code | Description | | |
| Blank | No contacts on operator | | |
| Standard | | | |
| A | 1 N.O. - 1 N.C. | | |
| A1 | 1 N.O. - 1 N.C.L.B. | | |
| A7 | 1 N.C. - 1 N.C.L.B. | | |
| PenTUFF (Low Voltage) | | | |
| AV | 1 N.O. - 1 N.C. | | |
| Class I, Div. 2 - Explosion-protected | | | |
| AF | 1 N.O. - 1 N.C. | | |
| Class I, Div. 2 - Logic Reed | | | |
| AR | 1 N.O. - 1 N.C. | | |
| Class I, Div. 2 - Stackable Sealed Switch | | | |
| AY | 1 N.O. - 1 N.C. | | |

Note: X = Closed/0 = Open

(1) Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs and neon indicators.
 (2) Operator-only option supplied without power module, lamp, or lens.

Potentiometer Devices



Cat. No. 800T-U24



Cat. No. 800H-UR4

| Resistance | Type 4/13 | Type 4/4X/13 | Resistance | Type 4/13 | Type 4/4X/13 |
|-----------------------------------------|---------------------------|---------------------------|------------|---------------------------|---------------------------|
| | Potentiometer (1) (2) (3) | Potentiometer (1) (2) (3) | | Potentiometer (1) (2) (3) | Potentiometer (1) (2) (3) |
| | Cat. No. | Cat. No. | | Cat. No. | Cat. No. |
| Operator only without resistive element | 800T-N37 ⁽⁴⁾ | 800H-N102 | 25 kΩ | 800T-U37 | 800H-UR37 |
| 150 Ω | 800T-U4 | 800H-UR4 | 50 kΩ | 800T-U41 | 800H-UR41 |
| 500 Ω | 800T-U12 | 800H-UR12 | 75 kΩ | 800T-U46 | 800H-UR46 |
| 1000 Ω | 800T-U13 | 800H-UR13 | 100 kΩ | 800T-U49 | 800H-UR49 |
| 1500 Ω | 800T-U16 | 800H-UR16 | 150 kΩ | 800T-U50 | 800H-UR50 |
| 2500 Ω | 800T-U19 | 800H-UR19 | 400 kΩ | 800T-U54 | 800H-UR54 |
| 5000 Ω | 800T-U24 | 800H-UR24 | 500 kΩ | 800T-U55 | 800H-UR55 |
| 10 kΩ | 800T-U29 | 800H-UR29 | 1 MΩ | 800T-U57 | 800H-UR57 |
| 15 kΩ | 800T-U34 | 800H-UR34 | 2 MΩ | 800T-U59 | 800H-UR59 |
| 20 kΩ | 800T-U35 | 800H-UR35 | 3 MΩ | 800T-U62 | 800H-UR62 |
| | | | 4 MΩ | 800T-U64 | 800H-UR64 |

(1) Single-turn operation with 312° rotation.

(2) Does not meet Class I, Div. 2 applications.

(3) Rated for 300V AC/DC, 2 W maximum (6V DC minimum). Specify Bulletin 800TC or 800HC for fingersafe potentiometers. Example: Cat. No. 800T-U29 becomes Cat. No. 800TC-U29.

(4) For use with Type J potentiometers having a shaft length of 7/8 in. (22.2 mm) and a shaft diameter of 1/4 in. (6.3 mm).

Mechanically Interlocked Maintained Push Button Devices



Cat. No. 800T-FA22A



Cat. No. 800T-FB16A



Cat. No. 800T-FC16F



Cat. No. 800H-CRA22A

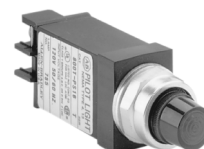
| Contact Arrangement | | Type 4/13 | | | Type 4/4X/13 | |
|---------------------|----------------------------|---------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------|
| | | Button Position: Button Type/Color ⁽¹⁾ | | | Bootless ⁽²⁾ | |
| Contact Type | Configuration/ Position | Upper: Flush/Black Lower: Flush/Black | Upper: Flush/Green Lower: Extended/Red | Upper: Flush/Green Lower: Mushroom/Red | Upper: Flush/Green Lower: Extended/Red | Upper: Flush/Black Lower: Flush/Black |
| | | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| 1 N.O. - 1 N.C. | | 800T-FA22A | 800T-FB16A | 800T-FC16A | 800H-CRB16A | 800H-CRA22A |
| 2 N.O. - 2 N.C. | | 800T-FA22F | 800T-FB16F | 800T-FC16F | 800H-CRB16F | 800H-CRA22F |
| No contact | — | 800T-FA22 | 800T-FB16 | 800T-FC16 | 800H-CRB16 | 800H-CRA22 |

(1) Consult your local Rockwell Automation sales office or Allen-Bradley distributor for other operator types and combinations.

(2) If booted operators are desired, refer to [page 47](#) to order boots separately.

18 mm Small Pilot Lights Type 4/13, Class I, Division 2

800T - PS D 16 R
 a b c d e



| a | |
|-------------------|-----------------------------|
| Power Module Type | |
| Code | Description |
| PS | Transformer (or dual input) |
| QS | Full voltage |
| RS | Neon ⁽²⁾ |

| b | |
|-------------------|---------------------------------------------|
| Lamp Test Options | |
| Code | Description |
| Blank | No test option |
| D | Dual-input diode |
| DT | Dual-input transformer relay ⁽¹⁾ |
| T | Push-to-test ⁽¹⁾ |

| c | |
|-------------------------------------|--------------|
| Illumination Options | |
| Code | Description |
| Transformer/Full Voltage/Dual Input | |
| Blank | Incandescent |
| H | LED |
| Neon | |
| Blank | No options |

| d | |
|---------------------------|--------------------------|
| Voltage | |
| Code | Description |
| Transformer | |
| 16 | 120V AC 50/60 Hz |
| 26 | 240V AC 50/60 Hz |
| Full-voltage Incandescent | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| Full-voltage LED | |
| 10 | 120V AC |
| 13 | 130V AC/DC |
| 24 | 24V AC/DC |
| Neon | |
| 10 | 120V AC/DC |
| 20 | 240V AC/DC |
| Dual Input | |
| 16 | 120V AC 50/60 Hz |
| 24 | 24V AC/DC ⁽³⁾ |

| e | |
|--------------------|-------------|
| Plastic Lens Color | |
| Code | Description |
| Blank | No lens |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |

(1) Class I, Division 2 rating not available. Push-to-test rated for Type 13 only.

(2) Neon is only available in amber or clear.

(3) Dual-input diode only.

Cluster Pilot Light Devices (Bulletin 800T Only)

IMPORTANT Rated Type 4/13 indoor only.

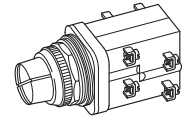


Color Cap Only With Lamps
Cat. No. 800T-N251L



Complete Unit
Cat. No. 800T-PCL416

800T - PCL 3 16 W R X R
a b c d e f g h
Pos 1 Pos 2 Pos 3 Pos 4



| a | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| b | |
|-------------------|------------------|
| Power Module Type | |
| Code | Description |
| QCL | Full voltage LED |
| PCL | Transformer LED |

| c | |
|-----------------|----------------|
| Number of Units | |
| Code | Description |
| 2 | 2 unit cluster |
| 3 | 3 unit cluster |
| 4 | 4 unit cluster |

| d | |
|-----------------|-------------------|
| Voltage Options | |
| Code | Description |
| Full Voltage | |
| 12 | 12V AC/DC |
| 24 | 24V AC/DC |
| Transformer | |
| 16 | 120V AC, 50/60 Hz |

| e, f, g, h | |
|-------------------------|---------------|
| Color Options | |
| Code | Description |
| Blank (all 4 positions) | Standard unit |
| X | No color |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |

Custom Lens Caps for Cluster Pilot Lights

800T - N251 L R G A W
a b c d e f
Pos 1 Pos 2 Pos 3 Pos 4



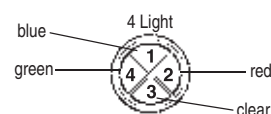
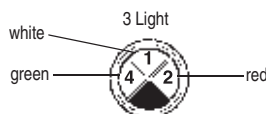
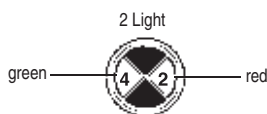
| a | |
|----------------------|-----------------------------------|
| No. of Lamps/Voltage | |
| Code | Description |
| N250 | 4 lamps, 12V AC/DC ⁽¹⁾ |
| N251 | 4 lamps, 24V AC/DC |
| N253 | 3 lamps, 12V AC/DC ⁽¹⁾ |
| N254 | 3 lamps, 24V AC/DC |
| N256 | 2 lamps, 12V AC/DC ⁽¹⁾ |
| N257 | 2 lamps, 24V AC/DC |

| b | |
|----------------------|-------------|
| Illumination Options | |
| Code | Description |
| L | LED |

| c, d, e, f | |
|-------------------------|---------------|
| Color Options | |
| Code | Description |
| Blank (all 4 positions) | Standard unit |
| X | No color |
| A | Amber |
| B | Blue |
| C | Clear |
| G | Green |
| R | Red |
| W | White |

(1) For transformer type cluster pilot lights, order 12V rated caps.

Figure 1 - Standard Units



Contact Block Code and Cam Target Table

Table 10 - Contact Block Code

| Contact Block Substitution | |
|----------------------------|------------------|
| Combination | Code |
| Standard | |
| D + E | A |
| D + D | M ⁽¹⁾ |
| E + E | N |
| J + D | B |
| J + E | C |

(1) XA2 and XA2R contact blocks cannot be stacked upon, but they can stack on other contact blocks.

Table 11 - 1-, 2-, 3-, and 4-way Toggle Switch Cam Targets

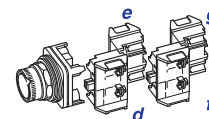
| Contact Configuration | | | | | Suffix Code | |
|-----------------------|------|--------|-------|------|---------------|---------------|
| Position | | | | | Contact/Side | |
| Up | Left | Center | Right | Down | Left Side | Right Side |
| 0 | X | 0 | 0 | 0 | — | D, H, V, R, 5 |
| 0 | 0 | 0 | 0 | X | — | E, U, W, S, 6 |
| X | 0 | X | X | X | — | J, Q |
| X | X | X | X | 0 | — | G, I |
| X | 0 | 0 | 0 | 0 | E, U, W, S, 6 | — |
| 0 | 0 | 0 | X | 0 | D, H, V, R, 5 | — |
| 0 | X | X | X | X | G, I | — |
| X | X | X | 0 | X | J, Q | — |

X = Closed, 0 = Open

Selector Push Button Devices (Bulletin 800T Only)



Cat. No. 800T-K2AAXX



| a | |
|-------------------|---------------------|
| Fingersafe Guards | |
| Code | Description |
| Blank | No guards |
| C | Guards on terminals |

| b | |
|-------------------------------------------------------------------------------|------------------------------|
| Cam and Head Type | |
| Code | Description |
| K | A cam with flush operator |
| KA | A cam with extended operator |
| KB | B cam with flush operator |
| KC | C cam with flush operator |
| KD | D cam with flush operator |
| KE | E cam with flush operator |
| Note: See Table 13 for Target description of each cam. | |

| c | |
|-----------|-------------|
| Color Cap | |
| Code | Description |
| 1 | Green |
| 2 | Black |
| 6 | Red |

| d, e, f, g | |
|-----------------------|--------------------------|
| Contact Blocks | |
| Code | Description |
| Blank (all positions) | No contacts on operator |
| Standard | |
| D | 1 N.O. |
| E | 1 N.C. |
| G | 1 N.O.E.M. |
| J | 1 N.C.L.B. |
| A | 1 N.O. - 1 N.C. |
| X | No contacts in this pos. |
| PenTUFF (Low Voltage) | |
| H | 1 N.O. |
| U | 1 N.C. |
| I | 1 N.O.E.M. |
| Q | 1 N.C.L.B. |
| F | 1 N.O. - 1 N.C. |

| d, e, f, g (cont'd) | |
|-------------------------------------------|-----------------|
| Contact Blocks | |
| Code | Description |
| Class I, Div. 2 - Explosion-protected | |
| 0 | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Logic Reed | |
| V | 1 N.O. |
| W | 1 N.C. |
| T | 1 N.O. - 1 N.C. |
| Class I, Div. 2 - Stackable Sealed Switch | |
| 5 | 1 N.O. |
| 6 | 1 N.C. |
| 7 | 1 N.O. - 1 N.C. |

Table 12 - Contact Block Code

| Contact Block Substitution | |
|----------------------------|------------------|
| Combination | Code |
| Standard | |
| D + E | A |
| D + D | M ⁽¹⁾ |
| E + E | N |
| J + D | B |
| J + E | C |

(1) XA2 and XA2R contact blocks cannot be stacked upon, but they can stack on other contact blocks.

Table 13 - Selector Push Button Cam Targets

| Sleeve Position | | | | Cam Description | | | | | | | | | |
|-----------------|----------------|-------------|----------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ↻ | | ↺ | | KA/K | | KB | | KC | | KD | | KE | |
| Button Free | Button Pressed | Button Free | Button Pressed | Contact Block Side | | | | | | | | | |
| | | | | Left | Right | Left | Right | Left | Right | Left | Right | Left | Right |
| 0 | 0 | 0 | X | — | — | D, H, V, R, 5 | — | D, H, V, R, 5 | — | — | — | — | — |
| 0 | 0 | X | 0 | E, U, W, S, 6 | E, U, W, S, 6 | — | — | — | — | E, U, W, S, 6 | — | E, U, W, S, 6 | — |
| 0 | 0 | X | X | — | — | — | — | — | — | — | E, U, W, S, 6 | — | E, U, W, S, 6 |
| 0 | X | 0 | 0 | — | — | — | — | D, H, V, R, 5 | — | D, H, V, R, 5 | — | D, H, V, R, 5 | — |
| 0 | X | X | 0 | — | — | — | — | — | — | — | — | — | — |
| X | 0 | X | 0 | J or Q | J or Q | — | E, U, W, S, 6 | — | — | J or Q | — | J or Q | — |
| X | X | 0 | 0 | — | — | — | — | — | — | — | G or I | — | G or I |
| X | X | 0 | X | G or I | G or I | — | — | — | — | G or I | — | G or I | — |
| X | 0 | X | X | — | — | — | — | — | E, U, W, S, 6 | — | J or Q | — | J or Q |
| X | X | X | 0 | — | — | E, U, W, S, 6 | — | E, U, W, S, 6 | — | — | — | — | — |

X = Closed, 0 = Open

Cylinder Lock Push Button Devices (Bulletin 800T only)



Cylinder Lock Push Button
Cat. No. 800T-E15A



Mushroom Style Cylinder Lock
Cat. No. 800T-E15M6A

| Type of Cylinder Lock | Lock Position | Type 4/13 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|----------------------------|
| | | Standard Cylinder Lock | Red Mushroom Cylinder Lock |
| | | Cat. No. (1) | Cat. No. (1) (2) |
| Spring Bolt – Lock can be set with key when button is in the OUT position. Button locks when pressed. Key is removable in any position. 1 N.O. - 1 N.C. | IN | 800T-E15A | 800T-E15M6A |
| Dead Bolt A – Button can only be operated with the key in the lock. Key removable in locked position only. 1 N.O. - 1 N.C. | IN | 800T-E24A | 800T-E24M6A |
| | OUT | 800T-E14A | 800T-E14M6A |
| Dead Bolt B – Button can be operated with or without the key inserted in the lock. Key removable in any position. 1 N.O. - 1 N.C. | IN | 800T-E12A | 800T-E12M6A |
| | OUT | 800T-E11A | 800T-E11M6A |

(1) Each device supplied with two keys. Replacement key part no. for standard E158 is X-144218.

(2) For jumbo size mushroom cap, change M to J. Example: Cat. No. 800T-E15M6A becomes Cat. No. 800T-E15J6A.

Momentary Padlocking Mushroom Head Devices (Bulletin 800T only)



Padlocking Mushroom Button
Cat. No. 800T-D6QA



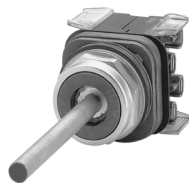
Padlocking Jumbo Mushroom Button
Cat. No. 800T-D6LQA

| Contact Type (1) | Button Color | Type 4/13 | |
|------------------|--------------|------------------------------|---------------------------|
| | | Standard Metal Mushroom Head | Jumbo Metal Mushroom Head |
| | | Cat. No. (2) | Cat. No. |
| No contact | Red | 800T-D6Q | 800T-D6LQ |
| 1 N.O. | | 800T-D6QD1 | 800T-D6LQD1 |
| 1 N.C. | | 800T-D6QD2 | 800T-D6LQD2 |
| 1 N.O. - 1 N.C. | | 800T-D6QA | 800T-D6LQA |

(1) Allows locking in the depressed position. Holds N.C. contacts open, but may not hold N.O. contacts closed.

(2) To order without the padlocking attachment, change Q to F. Example: Cat. No. 800T-D6QA becomes Cat. No. 800T-D6FA

Momentary Wobble Stick Push Button Devices (Bulletin 800T Type 13 only)



Wobble Stick Unit
Cat. No. 800T-M1B

| Contact Type | Cat. No. (1) |
|-----------------|--------------|
| No contacts | 800T-M1 |
| 1 N.O. | 800T-M1D1 |
| 1 N.O. - 1 N.C. | 800T-M1A |
| 2 N.O. - 2 N.C. | 800T-M1B |

(1) Can be operated from any angle.

Break-Glass Push Button Stations (Bul. 800T only)

Table 14 - Complete Station



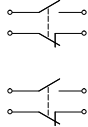


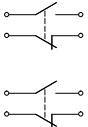


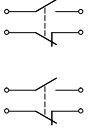

| | Description | Contact Type | Cat. No. |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------|
|  <p>Cat. No. 800T-NX14</p> | <p>Break-Glass Push Button Station Red push button station in a Type 4/13 enclosure incorporates either one or two snap-action contact blocks, which are operated when the small glass window is broken. Includes a STOP legend.</p> |  <p>1 N.O. - 1 N.C.</p> | 800T-NX14 |
| | |  <p>2 N.O. - 2 N.C.</p> | 800T-NX15 |

Table 15 - Miscellaneous Kits

| | Description | Contact Type | Cat. No. |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------|
|  <p>Cat. No. 800T-S6M</p> | <p>Unit Only Kit The break-glass unit less the enclosure is available as a kit to install into your enclosure. The kit includes the contact unit, the hammer and chain, and five extra glass discs with one button tack. This kit excludes legend plate. For legend plates, see page 55.</p> |  <p>1 N.O. - 1 N.C.</p> | 800T-S6M |
| | |  <p>2 N.O. - 2 N.C.</p> | 800T-S6N |
|  <p>Cat. No. 800T-NXM</p> | <p>Replacement Snap Action Contact Block Kit This kit is used to replace the snap action contact block.</p> |  <p>1 N.O. - 1 N.C.</p> | 800T-NXM |
| | |  <p>2 N.O. - 2 N.C.</p> | 800T-NXN |
| | Description | Cat. No. | |
|  <p>Cat. No. 800T-N28</p> | <p>Glass Disc Kit Each replacement kit for break-glass push button units or stations consists of six glass discs and one button tack.</p> | 800T-N28 | |

Custom-Built Stations/Enclosures

The table on [page 6](#) lists the most commonly used Bulletin 800T/800H push button stations. Stations that are not listed in this table can be ordered as custom-built stations.







The following information is required when ordering custom-built push button stations:

- Catalog number of enclosure.
- Catalog number of control units.
- Legend plate catalog number and/or marking for each unit.
- Specify vertical/horizontal mounting.
- Specify desired operator mounting sequence. Inclusion of a sketch is recommended.

Submit your request to RADBQuote@ra.rockwell.com.

Enclosures

IMPORTANT Enclosure and conduit dimensions are detailed on [page 70](#).

| No. of Operator Openings | Surface Mount ⁽¹⁾ | Flush Mount | Pendant Type | |
|--------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| | Die Cast (Type 4/13) ⁽²⁾ | Die Cast Faceplate (Type 4/13) | One Hole in Bottom (Type 13) | Openings in Cover (Type 13) |
| |  Cat. No. 800T-2TZ |  Cat. No. 800T-2ZT |  Cat. No. 800T-2PZ |  Cat. No. 800T-2PY |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| 1 | 800T-1TZ ⁽³⁾ | 800T-1ZT | — | — |
| 2 | 800T-2TZ ⁽³⁾ | 800T-2ZT | 800T-2PZ | 800T-2PY |
| 3 | 800T-3TZ ⁽³⁾ | 800T-3ZT | — | 800T-3PY |
| 4 | 800T-4TZ ⁽³⁾ | 800T-4ZT | — | 800T-4PY |
| 5 | — | — | — | 800T-5PY |
| 6 ⁽⁴⁾ | 800T-6TZ ⁽³⁾ | 800T-6ZT | — | 800T-6PY |
| 6 ⁽⁵⁾ | 800T-6THZ ⁽³⁾ | 800T-6ZTH | — | — |
| 7 | — | — | — | — |
| 8 | — | — | — | — |
| 9 | 800T-9TZ | 800T-9ZT | — | — |
| 10 | — | — | — | — |
| 12 | 800T-12TZ | 800T-12ZT | — | — |
| 16 | 800T-16TZ | 800T-16ZT | — | — |
| 20 | — | — | — | — |
| 25 | — | — | — | — |

(1) Bottom conduit entry. Grounding provision provided.

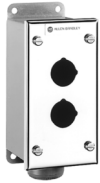
(2) Enclosure depth accommodates one shallow and one mini-contact block stacked.

(3) Add suffix Y to the cat. no. for yellow painted enclosure. Example: Cat. No. 800T-1TZY.

(4) One vertical row.

(5) Two vertical rows of three holes.

Enclosures (Bulletin 800H only)



Stainless Steel
Cat. No. 800H-2HZ4



Stainless Steel
Cat. No. 800H-2HZ4



Fiberglass
Cat. No. 800H-2HZ4Y



Thermoplastic Polyester
Cat. No. 800H-2HZ4C

| No. of Operator Openings | Conduit Hubs ⁽¹⁾ | | Stainless Steel (#304) Type 4/4X/13 ⁽²⁾ | Rosite Glass Polyester Type 4/4X/13 | No. of Operator Openings | Conduit Openings | | Fiberglass ⁽³⁾ Type 4/4X/13 | Thermoplastic Polyester ⁽⁴⁾ ⁽⁵⁾ Type 4/4X |
|--------------------------|-----------------------------|------------|----------------------------------------------------|-------------------------------------|--------------------------|------------------|---------------------------|----------------------------------------|-----------------------------------------------------------------|
| | No. | Dia. [in.] | Cat. No. | Cat. No. | | No. | Dia. [in.] ⁽⁶⁾ | Cat. No. | Cat. No. |
| 0 ⁽⁷⁾ | 1 | 3/4 | 800H-0HZ4 | — | 1 | 1 | 3/4 | 800H-1HZ4Y | 800H-1HZ4C |
| 1 | 1 | 3/4 | 800H-1HZ4 | 800H-1HZ4R | 2 | 1 | 1 | 800H-2HZ4Y | 800H-2HZ4C |
| 1 | 2 | 3/4 | — | 800H-1HZ4RM1 | 3 | 1 | 1 | 800H-3HZ4Y | 800H-3HZ4C |
| 1 | 1 | 1 | — | 800H-1HZ4RM2 | 4 | — | — | — | 800H-4HZ4C |
| 2 | 1 | 3/4 | 800H-2HZ4 | 800H-2HZ4R | — | — | — | — | — |
| 2 | 2 | 3/4 | 800H-2HZ4M1 | 800H-2HZ4RM1 | — | — | — | — | — |
| 2 | 1 | 1 | 800H-2HZ4M2 | 800H-2HZ4RM2 | — | — | — | — | — |
| 3 | 1 | 3/4 | 800H-3HZ4 | 800H-3HZ4R | — | — | — | — | — |
| 3 | 2 | 3/4 | 800H-3HZ4M1 | 800H-3HZ4RM1 | — | — | — | — | — |
| 4 | 1 | 3/4 | 800H-4HZ4 | 800H-4HZ4R | — | — | — | — | — |
| 4 | 2 | 3/4 | 800H-4HZ4M1 | 800H-4HZ4RM1 | — | — | — | — | — |
| 5 | 1 | 1 | 800H-5HZ4 | — | — | — | — | — | — |
| 6 | 1 | 1 | 800H-6HZ4 | 800H-6HZ4R | — | — | — | — | — |
| 7 | 1 | 1 | 800H-7HZ4 | — | — | — | — | — | — |
| 8 | 1 | 1 | 800H-8HZ4 | — | — | — | — | — | — |

(1) Other combinations of conduit hub sizes are available upon request. Enclosure and conduit dimensions are detailed on [page 70](#).

(2) Grounding screw provided with stainless steel enclosure.

(3) Extra deep. Accommodates two levels of stackable sealed switch contact blocks.

(4) No conduit openings provided.

(5) Add a Y to the cat. no. for yellow thermoplastic enclosures. Example: Cat. No. 800H-1HZ4C becomes Cat. No. 800H-1HZ4CY. For more options, see [General-purpose Enclosures on page 74](#).

(6) Conduit hubs must be ordered separately. For 3/4 in. hub, order Cat. No. 1490-N9. For 1 in. hub, order Cat. No. 1490-N10.

(7) Identical to Cat. No. 800H-1HZ4 but without mounting holes.

Contact Blocks

Contact blocks are packaged in kit form for field installation. All necessary mounting hardware is provided with each contact block kit. Contact ratings are listed on [page 4](#).

- IMPORTANT**
- It is recommended that contact blocks are mounted no more than two blocks deep.
 - Time delay contacts are only available as one circuit per operator.



| Contact Type | Shallow Block ^{(1) (2)} | | PenTUFF™ (Low Voltage) Block ^{(1) (2)} | | Logic Reed Block ^{(2) (3)} | | Explosion-protected Block ^{(1) (3)} | | Stackable Sealed Switch Block ⁽³⁾ | |
|---------------------|----------------------------------|------|-------------------------------------------------|------|-------------------------------------|------|----------------------------------------------|------|----------------------------------------------|------|
| | Cat. No. | Code | Cat. No. | Code | Cat. No. | Code | Cat. No. | Code | Cat. No. | Code |
| 1 N.O. | 800T-XD1 | D | 800T-XD1V | H | 800T-XD1R | V | — | — | 800T-XD1Y | 5 |
| 1 N.C. | 800T-XD2 | E | 800T-XD2V | U | 800T-XD2R | W | — | — | 800T-XD2Y | 6 |
| 1 N.O.E.M. | 800T-XD3 | G | 800T-XD3V | I | — | — | — | — | — | — |
| 1 N.C.L.B. | 800T-XD4 | J | 800T-XD4V | Q | — | — | — | — | — | — |
| 1 N.O. - N.C. | 800T-XA | A | 800T-XAV | F | 800T-XAR | T | 800TC-XAF | 0 | 800T-XAY | 7 |
| 2 N.O. | 800T-XA2 ⁽⁴⁾ | M | — | — | 800T-XA2R ⁽⁴⁾ | Y | — | — | — | — |
| 2 N.C. | 800T-XA4 | N | — | — | 800T-XA4R | Z | — | — | — | — |
| 1 N.C.L.B. - 1 N.O. | 800T-XA1 | B | — | — | — | — | — | — | — | — |
| 1 N.C.L.B. - 1 N.C. | 800T-XA7 | C | — | — | — | — | — | — | — | — |

- (1) Contact blocks with normally closed contacts meet direct drive positive opening standard requirements when properly fused to IEC 269-1 and 269-2. Shallow/mini contacts: 10 A gl or N type cartridge fuse. PenTUFF contacts: 6 A gl or N type cartridge fuse.
 (2) Specify Bulletin 800TC for fingersafe contact blocks. Example: Cat. No. 800T-XA becomes Cat. No. 800TC-XA.
 (3) Suitable for use in a Class I, Div. 2 hazardous location when device is installed in a suitable UL Listed enclosure.
 (4) Additional contacts cannot be stacked on XA2 and XA2R contact blocks.

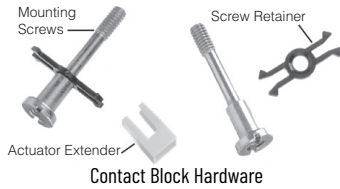


| Contact Type | Self-Monitoring Contact Block (SMCB) ^{(1) (2)} | |
|----------------------------------------------------------------|---------------------------------------------------------|------|
| | Cat. No. | Code |
| 1 N.C.L.B. (wired in series with 1 N.O. monitoring contact) | 800TC-XD4S | 3 |

| Contact Type | Mini Block ^{(1) (2)} | | Time Delay Block ⁽³⁾ | MaxDuty Block ⁽²⁾ | |
|--------------|-------------------------------|------|---------------------------------|------------------------------|------|
| | Cat. No. | Code | Cat. No. | Cat. No. | Code |
| 1 N.O. | 800T-XD5 | K | 800T-XT | 800T-XD1M | 1 |
| 1 N.C. | 800T-XD6 | L | 800T-XS | 800T-XD2M | 2 |
| 1 N.C.L.B. | — | — | — | 800T-XD4M | 4 |

- (1) Contact blocks with normally closed contacts meet direct drive positive opening standard requirements when properly fused to IEC 269-1 and 269-2. Shallow/mini contacts: 10 A gl or N type cartridge fuse. PenTUFF contacts: 6 A gl or N type cartridge fuse.
 (2) Must be mounted on the first level of the operator. The N.O. monitoring contact automatically closes when the S.M.C.B. is properly installed onto the operator. If the S.M.C.B. is separated from the operator, the N.O. monitoring contact automatically opens.

- (1) Contact blocks with normally closed contacts meet direct drive positive opening standard requirements when properly fused to IEC 269-1 and 269-2. Shallow/mini contacts: 10 A gl or N type cartridge fuse. PenTUFF contacts: 6 A gl or N type cartridge fuse.
 (2) Specify Bulletin 800TC for fingersafe contact blocks. Example: Cat. No. 800T-XD5 becomes Cat. No. 800TC-XD5.
 (3) For contact ratings, see [page 4](#).



| Description | Cat. No. |
|---------------------------------------------|-----------|
| Contact block mounting screw ⁽¹⁾ | 800T-N335 |
| Screw retainer | 800T-N336 |
| Actuator extender ⁽²⁾ | 800T-N337 |

- (1) Not compatible with explosion-protected, stackable sealed switch, and mini contact blocks.
- (2) Not compatible with explosion-protected and self-monitoring contact blocks.

Contact Block Code Descriptions – Traditional Type

Table 16 - Standard Contact Blocks

| Code | Description | Non-illuminated | Illuminated |
|-------|--------------------------------------|------------------|------------------|
| Blank | No contacts | X | X ⁽¹⁾ |
| | 1 N.O., 1 N.C. | – | X ⁽²⁾ |
| A | 1 N.O., 1 N.C. | X | X |
| A1 | 1 N.C.L.B., 1 N.O. | X | X |
| A16 | 1 N.O., 1 N.C. (in position 2) | X ⁽³⁾ | – |
| A1S | 1 N.C.L.B. (self-monitoring), 1 N.O. | X ⁽⁴⁾ | X ⁽⁴⁾ |
| A2 | 2 N.O. | X | X |
| A4 | 2 N.C. | X | X |
| A5 | 2 N.C.L.B. | X ⁽⁴⁾ | X ⁽⁴⁾ |
| A5S | 2 N.C.L.B. (self-monitoring) | X ⁽⁴⁾ | – |
| A7 | 1 N.C.L.B., 1 N.C. | X | X |
| B | 2 N.O., 2 N.C. | X | – |
| B6 | 2 N.C.L.B., 2 N.C. | X ⁽⁴⁾ | – |
| C | 4 N.O., 4 N.C. | X | – |
| D1 | 1 N.O. | X | X |
| D2 | 1 N.C. | X | X |
| D3 | 1 N.O.E.M. | X | X |
| D4 | 1 N.C.L.B. | X | X |
| D4S | 1 N.C.L.B. (self-monitoring) | X ⁽⁴⁾ | X ⁽⁴⁾ |
| F | 2 N.O., 2 N.C. | X ⁽³⁾ | – |
| F8 | 2 N.C. | X ⁽³⁾ | – |
| F9 | 2 N.O. | X ⁽³⁾ | – |
| G1 | 2 N.O., 2 N.C. | – | X |
| H | 3 N.O., 3 N.C. | X | – |
| J | 4 N.O., 4 N.C. | X ⁽³⁾ | – |
| K | 3 N.O., 3 N.C. | X ⁽³⁾ | – |
| X | No contacts | – | X ⁽⁵⁾ |

- (1) Trigger action E-stops and push-pull units
- (2) Momentary contact push buttons and push-to-test pilot lights
- (3) Mechanically interlocked units
- (4) Push-pull units
- (5) Momentary contact push buttons

Table 17 - Mini Contact Blocks

| Code | Description | Non-illuminated | Illuminated |
|------|-------------|-----------------|-------------|
| D5 | 1 N.O. | X | – |
| D6 | 1 N.C. | X | – |

Table 18 - PenTUFF Contact Blocks

| Code | Description | Non-illuminated | Illuminated |
|------|--------------------------------|------------------|-------------|
| AV | 1 N.O., 1 N.C. | X | X |
| A16V | 1 N.O., 1 N.C. (in position 2) | X ⁽¹⁾ | – |
| BV | 2 N.O., 2 N.C. | X | – |
| CV | 4 N.O., 4 N.C. | X | – |
| D1V | 1 N.O. | X | X |
| D2V | 1 N.C. | X | X |
| D3V | 1 N.O.E.M. | X | X |
| D4V | 1 N.C.L.B. | X | X |
| FV | 2 N.O., 2 N.C. | X ⁽¹⁾ | – |
| F8V | 2 N.C. | X ⁽¹⁾ | – |
| F9V | 2 N.O. | X ⁽¹⁾ | – |
| G1V | 2 N.O., 2 N.C. | – | X |
| HV | 3 N.O., 3 N.C. | X | – |
| JV | 4 N.O., 4 N.C. | X ⁽¹⁾ | – |
| KV | 3 N.O., 3 N.C. | X ⁽¹⁾ | – |

- (1) Mechanically interlocked units

Table 19 - MaxDuty Contact Blocks

| Code | Description | Non-illuminated | Illuminated |
|------|-------------|-----------------|-------------|
| D1M | 1 N.O. | X | X |
| D2M | 1 N.C. | X | X |
| D4M | 1 N.C.L.B. | X | X |

Table 20 - Snap Action Contact Blocks

| Code | Description | Non-illuminated | Illuminated |
|------|----------------|------------------|-------------|
| M | 1 N.O., 1 N.C. | X ⁽¹⁾ | -- |
| N | 2 N.O., 2 N.C. | X ⁽¹⁾ | -- |

- (1) Momentary contact push buttons

Table 21 - Time Delay Contact Blocks

| Code | Description | Non-illuminated | Illuminated |
|------|-------------|------------------|-------------|
| S | 1 N.C. | X ⁽¹⁾ | – |
| T | 1 N.O. | X ⁽¹⁾ | – |

- (1) Momentary contact push buttons

Table 22 - Logic Reed Contact Blocks ⁽¹⁾

| Code | Description | Non-illuminated | Illuminated |
|------|--------------------------------|------------------|-------------|
| AR | 1 N.O., 1 N.C. | X | X |
| A16R | 1 N.O., 1 N.C. (in position 2) | X ⁽²⁾ | — |
| A2R | 2 N.O. | X | X |
| A4R | 2 N.C. | X | X |
| BR | 2 N.O., 2 N.C. | X | — |
| CR | 4 N.O., 4 N.C. | X | — |
| D1R | 1 N.O. | X | X |
| D2R | 1 N.C. | X | X |
| FR | 2 N.O., 2 N.C. | X ⁽²⁾ | — |
| F8R | 2 N.C. | X ⁽²⁾ | — |
| F9R | 2 N.O. | X ⁽²⁾ | — |
| G1R | 2 N.O., 2 N.C. | — | X |
| HR | 3 N.O., 3 N.C. | X | — |
| JR | 4 N.O., 4 N.C. | X ⁽²⁾ | — |
| KR | 3 N.O., 3 N.C. | X ⁽²⁾ | — |

(1) Class I Div. 2 rated

(2) Mechanically interlocked units

Table 24 - Stackable Sealed Switch Contact Blocks ⁽¹⁾

| Code | Description | Non-illuminated | Illuminated |
|------|--------------------------------|------------------|-------------|
| AY | 1 N.O., 1 N.C. | X | X |
| A16Y | 1 N.O., 1 N.C. (in position 2) | X ⁽²⁾ | — |
| A2Y | 2 N.O. | X | X |
| A4Y | 2 N.C. | X | X |
| BY | 2 N.O., 2 N.C. | X | — |
| CY | 4 N.O., 4 N.C. | X | — |
| D1Y | 1 N.O. | X | X |
| D2Y | 1 N.C. | X | X |
| FY | 2 N.O., 2 N.C. | X ⁽²⁾ | — |
| F8Y | 2 N.C. | X ⁽²⁾ | — |
| F9Y | 2 N.O. | X ⁽²⁾ | — |
| G1Y | 2 N.O., 2 N.C. | — | X |
| HY | 3 N.O., 3 N.C. | X | — |
| JY | 4 N.O., 4 N.C. | X ⁽²⁾ | — |
| KY | 3 N.O., 3 N.C. | X ⁽²⁾ | — |

(1) Class I Div. 2 rated

(2) Mechanically interlocked units

Table 23 - Explosion-protected Contact Blocks ⁽¹⁾

| Code | Description | Non-illuminated | Illuminated |
|------|--------------------------------|------------------|-------------|
| AF | 1 N.O., 1 N.C. | X | X |
| A16F | 1 N.O., 1 N.C. (in position 2) | X ⁽²⁾ | — |
| BF | 2 N.O., 2 N.C. | X | — |
| CF | 4 N.O., 4 N.C. | X | — |
| FF | 2 N.O., 2 N.C. | X ⁽²⁾ | — |
| G1F | 2 N.O., 2 N.C. | — | X |
| HF | 3 N.O., 3 N.C. | X | — |
| JF | 4 N.O., 4 N.C. | X ⁽²⁾ | — |
| KF | 3 N.O., 3 N.C. | X ⁽²⁾ | — |

(1) Class I Div. 2 rated

(2) Mechanically interlocked units

Contact Block Code Descriptions – Modular Type

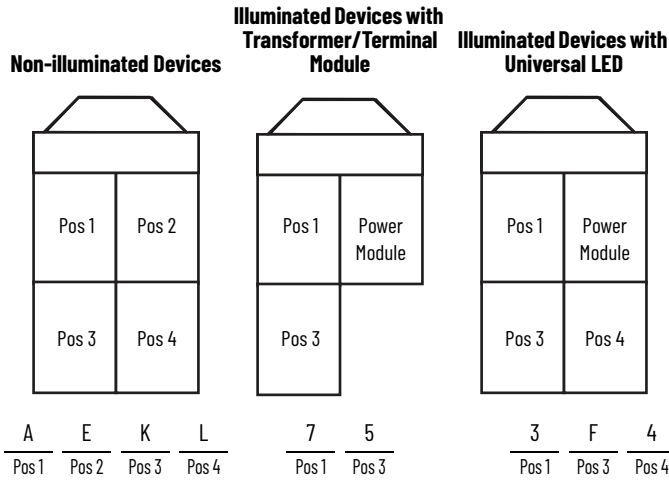


Table 25 - Standard Contact Blocks

| Code | Configuration | |
|------------------|--------------------|------------------------|
| A | 1 N.O., 1 N.C. | 800T-XA |
| B | 1 N.C.L.B., 1 N.O. | 800T-XA1 |
| C | 1 N.C.L.B., 1 N.C. | 800T-XA7 |
| D | 1 N.O. | 800T-XD1 |
| E | 1 N.C. | 800T-XD2 |
| G | 1 N.O.E.M. | 800T-XD3 |
| J | 1 N.C.L.B. | 800T-XD4 |
| M ⁽¹⁾ | 2 N.O. | 800T-XA2 |
| N | 2 N.C. | 800T-XA4 |
| 3 ⁽²⁾ | 1 SMCB | 800TC-XD4S |
| X | — | No block this position |

- (1) Cannot be stacked upon
 (2) Can only be configured in positions 1 and 2

Table 26 - Mini Contact Blocks

| Code | Configuration | |
|------------------|---------------|------------------------|
| K ⁽¹⁾ | 1 N.O. | 800T-XD5 |
| L ⁽¹⁾ | 1 N.C. | 800T-XD6 |
| X | — | No block this position |

- (1) Cannot be stacked upon

Table 27 - PenTUFF Contact Blocks

| Code | Configuration | |
|------|----------------|------------------------|
| F | 1 N.O., 1 N.C. | 800T-XAV |
| H | 1 N.O. | 800T-XD1V |
| I | 1 N.O.E.M. | 800T-XD3V |
| Q | 1 N.C.L.B. | 800T-XD4V |
| U | 1 N.C. | 800T-XD2V |
| X | — | No block this position |

Table 28 - MaxDuty Contact Blocks

| Code | Configuration | |
|------|---------------|------------------------|
| 1 | 1 N.O. | 800T-XD1M |
| 2 | 1 N.C. | 800T-XD2M |
| 4 | 1 N.C.L.B. | 800T-XD4M |
| X | — | No block this position |

Table 29 - Logic Reed Contact Blocks^{(1) (2)}

| Code | Configuration | |
|------------------|----------------|------------------------|
| T | 1 N.O., 1 N.C. | 800T-XAR |
| V | 1 N.O. | 800T-XD1R |
| W | 1 N.C. | 800T-XD2R |
| γ ⁽³⁾ | 2 N.O. | 800T-XA2R |
| Z | 2 N.C. | 800T-XA4R |
| X | — | No block this position |

- (1) Class I Div. 2 rated
 (2) Logic reed contact blocks can only be configured with other logic reed contact blocks
 (3) Cannot be stacked upon

Table 30 - Explosion-protected Contact Blocks^{(1) (2)}

| Code | Configuration | |
|------|----------------|------------------------|
| 0 | 1 N.O., 1 N.C. | 800TC-XAF |
| X | — | No block this position |

- (1) Class I Div. 2 rated
 (2) Explosion-protected contact blocks can only be configured with other explosion-protected contact blocks

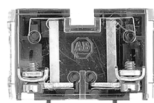
Table 31 - Stackable Sealed Switch Contact Blocks^{(1) (2)}

| Code | Configuration | |
|------|----------------|------------------------|
| 5 | 1 N.O. | 800T-XD1Y |
| 6 | 1 N.C. | 800T-XD2Y |
| 7 | 1 N.O., 1 N.C. | 800T-XAY |
| X | — | No block this position |

- (1) Class I Div. 2 rated
 (2) Stackable sealed switch contact blocks can only be configured with other stackable sealed switch contact blocks

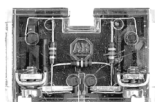
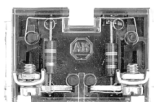
Power Modules

Packaged in kit form for field installation. Lamps are listed on [page 53](#).



| Full Voltage ⁽¹⁾ | | Transformer ⁽¹⁾ | | Dual Input | | |
|-----------------------------|-----------|----------------------------|------------|----------------------------|------------|------------|
| Lamp Voltage | Cat. No. | Voltage | Cat. No. | Type | Voltage | Cat. No. |
| 6...130V AC/DC | 800T-N330 | 48V AC 50/60 Hz | 800T-N325 | Transformer ⁽²⁾ | 120V AC | 800T-N296 |
| | | 120V AC 50/60 Hz | 800T-N326 | Diode Type ⁽³⁾ | 24V AC/DC | 800T-N291N |
| | | 240V AC 50/60 Hz | 800T-N327 | | 120V AC/DC | 800T-N290N |
| | | 277V AC 50/60 Hz | 800T-N327Y | | — | — |
| | | 480V AC 50/60 Hz | 800T-N328 | — | — | |
| 240V AC/DC ⁽⁴⁾ | 800T-N331 | 600V AC 50/60 Hz | 800T-N329 | — | — | — |

- (1) Specify Bulletin 800TC for fingersafe power modules. Example: Cat. No. 800T-N330 becomes Cat. No. 800TC-N330.
- (2) Transformer type dual input provides circuit isolation via a miniature type relay. This module is used with a 120V transformer.
- (3) Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs and neon indicators.
- (4) 240V full-voltage module contains 50% dropping resistors for use with a 120V incandescent lamp.




| Resistor (10% Drop) ⁽¹⁾ | | Neon ^{(1) (2)} | |
|------------------------------------|-----------|-------------------------|-----------|
| Voltage | Cat. No. | Voltage | Cat. No. |
| 120V AC/DC | 800T-N332 | 120V AC/DC | 800T-N333 |
| | | 240V AC/DC | 800T-N334 |



- (1) Specify Bulletin 800TC for fingersafe power modules. Example: Cat. No. 800T-N332 becomes Cat. No. 800TC-N332.
- (2) Neon modules contain resistors.

Universal LED Module

Allows mounting of contact blocks when used with illuminated momentary contact push button and push-pull operators. This module is used with 800T-N376x LED lamps (see [Table 32 on page 53](#)).

| | Voltage | Cat. No. |
|-------------------------------------------------------------------------------------|-----------------|------------|
|  | 12...130V AC/DC | 800TC-N374 |

Trigger Action E-stop Latches

| | Description | Cat. No. |
|-------------------------------------------------------------------------------------|----------------------|-----------|
|  | Illuminated type | 800T-N380 |
|  | Non-illuminated type | 800T-N379 |

Replacement Color Caps

The following color caps are for field replacement on installed devices or for completion of devices that are ordered with color caps omitted.



Push-Pull



Push-Pull/Twist



Push-Pull Jumbo



Push-Pull/Twist Jumbo

Push-Pull Color Caps, Illuminated

| Color | 800T Push-Pull | 800H Push-Pull | 800T/H Push-Pull/Twist | 800T/H Push-Pull Jumbo | 800T/H Push-Pull/Twist Jumbo |
|-------|----------------|----------------|------------------------|------------------------|------------------------------|
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| Amber | 800T-N159A | 800H-N112A | 800T-N301A | 800T-N209A | 800T-N306A |
| Blue | 800T-N159B | 800H-N112B | 800T-N301B | 800T-N209B | 800T-N306B |
| Clear | 800T-N159C | 800H-N112C | 800T-N301C | 800T-N209C | 800T-N306C |
| Green | 800T-N159G | 800H-N112G | 800T-N301G | 800T-N209G | 800T-N306G |
| Red | 800T-N159R | 800H-N112R | 800T-N301R | 800T-N209R | 800T-N306R |
| White | 800T-N159W | 800H-N112W | 800T-N301W | 800T-N209W | 800T-N306W |



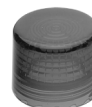
Illuminated Mushroom



Illuminated Jumbo Mushroom



Standard



Push-to-test



Glass Caps for Pilot Lights

| Color | 800T/H Push Button Color Caps, Illuminated | | 800T/H Pilot Light Color Caps | | | Glass Caps for 800T Pilot Lights |
|--------|--------------------------------------------|----------------|-------------------------------|--------------|------------|----------------------------------|
| | Mushroom | Jumbo Mushroom | Standard | Push-to-test | 18 mm | |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. | |
| Amber | 800T-N304A | 800T-N305A | 800T-N26A | 800T-N42 | 800T-N122A | 800T-N22 |
| Blue | 800T-N304B | 800T-N305B | 800T-N26B | 800T-N43 | 800T-N122B | 800T-N23 |
| Clear | 800T-N304C | 800T-N305C | 800T-N26C | 800T-N45 | 800T-N122C | 800T-N25 |
| Green | 800T-N304G | 800T-N305G | 800T-N26G | 800T-N41 | 800T-N122G | 800T-N21 |
| Red | 800T-N304R | 800T-N305R | 800T-N26R | 800T-N40 | 800T-N122R | 800T-N20 |
| White | 800T-N304W | 800T-N305W | 800T-N26W | 800T-N44 | 800T-N122W | 800T-N24 |
| Yellow | — | — | 800T-N26Y | 800T-N46 | — | — |

The following color caps are for field replacement on installed devices or for completion of devices that are ordered with color caps omitted.



Plastic Mushroom



Plastic Jumbo Mushroom



Padlocking Metal Mushroom



Metal Jumbo Mushroom

Push Button Color Caps, Non-Illuminated

| Button Color | 800T Plastic Mushroom | 800H Plastic Mushroom | 800T Plastic Jumbo Mushroom | 800H Plastic Jumbo Mushroom | 800T Padlocking Metal Mushroom | 800T Metal Jumbo Mushroom |
|--------------|-----------------------|-----------------------|-----------------------------|-----------------------------|--------------------------------|---------------------------|
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| Red | 800T-N246R | 800H-N114A | 800T-N247R | 800H-N115A | 800T-N311R | 800T-N248R ⁽¹⁾ |
| Green | 800T-N246G | 800H-N114B | 800T-N247G | 800H-N115B | 800T-N311G | 800T-N248G ⁽¹⁾ |
| Black | 800T-N246B | 800H-N114H | 800T-N247B | 800H-N115H | 800T-N311B | 800T-N248B ⁽¹⁾ |
| Orange | 800T-N246O | 800H-N114F | 800T-N247O | 800H-N115F | — | — |
| Gray | 800T-N246GR | 800H-N114G | 800T-N247GR | 800H-N115G | — | — |
| Blue | 800T-N246BL | 800H-N114C | 800T-N247BL | 800H-N115C | — | — |
| Yellow | 800T-N246Y | 800H-N114E | 800T-N247Y | 800H-N115E | 800T-N311Y | 800T-N248Y ⁽¹⁾ |
| Natural | — | — | — | — | — | — |
| White | 800T-N246W | 800H-N114L | — | 800H-N115L | — | — |

(1) For padlocking jumbo mushroom style, change listed cat. no. from 248 to 313. Example: Cat. No. 800T-N248G becomes Cat. No. 800T-N313G.



Push-Pull



Push-Pull/Twist



Push-Pull Jumbo



Push-Pull/Twist Jumbo

800T/H Push-Pull Color Caps, Non-Illuminated

| Button Color | 800T/H Push-Pull Color Caps, Non-Illuminated | | | |
|--------------|----------------------------------------------|-----------------|-----------------|-----------------------|
| | Push-Pull | Push-Pull/Twist | Push-Pull Jumbo | Push-Pull/Twist Jumbo |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| Red | 800T-N160A | 800T-N302A | 800T-N208A | 800T-N307A |
| Green | 800T-N160B | 800T-N302B | 800T-N208B | 800T-N307B |
| Blue | 800T-N160C | 800T-N302C | 800T-N208C | 800T-N307C |
| Yellow | 800T-N160E | 800T-N302E | 800T-N208E | 800T-N307E |
| Orange | 800T-N160F | 800T-N302F | 800T-N208F | 800T-N307F |
| Gray | 800T-N160G | 800T-N302G | 800T-N208G | 800T-N307G |
| Black | 800T-N160H | 800T-N302H | 800T-N208H | 800T-N307H |
| White | 800T-N160L | 800T-N302L | 800T-N208L | 800T-N307L |

Selector Switch Knobs – Illuminated





Standard Knob



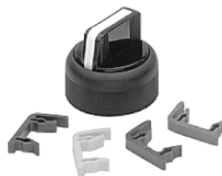
Knob Lever

| Color | 800T Knob Type | | 800H Knob Type | |
|-------|----------------|------------|----------------|------------|
| | Standard Knob | Knob Lever | Standard Knob | Knob Lever |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| Amber | 800T-N297A | 800T-N298A | 800H-N154A | 800H-N155A |
| Blue | 800T-N297B | 800T-N298B | 800H-N154B | 800H-N155B |
| Clear | 800T-N297C | 800T-N298C | 800H-N154C | 800H-N155C |
| Green | 800T-N297G | 800T-N298G | 800H-N154G | 800H-N155G |
| Red | 800T-N297R | 800T-N298R | 800H-N154R | 800H-N155R |
| White | 800T-N297W | 800T-N298W | 800H-N154W | 800H-N155W |

Selector Switches

| | Description | Item | Color | Cat. No. |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|------------|
|  <p>Standard Knob Lever</p> <p>Wing Lever</p> | <p>800T Knobs and Actuators for Selector Switches Selector switch knobs can be changed in the field. Standard knob and knob levers can be ordered with white inserts or with a packet of colored inserts, which includes one insert of each color.</p> | Standard Knob | White | 800T-N230F |
| | | Knob Lever | Kit | 800T-N230 |
| | | | White | 800T-N231F |
| | | Wing Lever | Kit | 800T-N231 |
| | | | Gray | 800T-N238 |
| Coin Slot | Black Only | 800T-N239 | | |
| | 800H Knob | Standard Knob | White | 800H-N145F |
| | Description | Color | Cat. No. | |
|  | <p>800T/H Color Insert Kits Available on Selector switches with removable color inserts. Standard knob and knob levers use the same insert. If color All is selected, a packet of color inserts is furnished which includes one of each color. Color Insert kits can also be ordered with operators at no additional charge.</p> | Red | 800T-N124 | |
| | | Green | 800T-N125 | |
| | | Blue | 800T-N126 | |
| | | Yellow | 800T-N127 | |
| | | White | 800T-N128 | |
| | | Orange | 800T-N286 | |
| | | All | 800T-N123 | |

Booted Selector Switch Knobs (800H only) – Non-illuminated



| Insert Material | Material | | | |
|-----------------|----------------------------------------------|---------------------------|---------------------------|-----------------------------------|
| | Chlorosulfonated Polyethylene ⁽¹⁾ | Silicone ⁽¹⁾ | Urethane ⁽¹⁾ | Ethylene Propylene ⁽¹⁾ |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| Brass | 800H-NR5 ⁽²⁾ | 800H-NR101 ⁽²⁾ | 800H-NR100 ⁽²⁾ | 800H-NR103 ⁽²⁾ |
| Stainless Steel | 800HS-NR5 | 800HS-NR101 | 800HS-NR100 | 800HS-NR103 |

(1) Dots that are printed on the inside of the boot identify the boot material. See [Protective Boot Application Information on page 47](#) for a description of the materials.

(2) Color insert packet (Cat. No. 800T-N123) is included in each kit.

Protective Boots

Protective Boot for Illuminated Push Buttons



Cat. No. 800H-N11



Cat. No. 800H-N12

| Description | Type | Cat. No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Can be added to guarded units, units without guard, or push-to-test devices. This protective boot guards against the entrance of foreign materials reaching the opening between the button and locking ring. | Boot without Guard | 800H-N11 |
| | Boot with Guard | 800H-N12 |

Protective Boots for Non-illuminated Push Buttons

IMPORTANT Can be added to flush or extended head push button units to help protect against foreign materials reaching the opening between the button and the locking ring.

Boots supplied with control stations and components are made of a chlorosulfonated polyethylene material with stainless steel insert ring. To order boots with silicone, urethane, or ethylene propylene material, see the following table that shows the material application information.

| Insert Material | Boot Color | Material | | | |
|--------------------------------|------------|----------------------------------------------|-------------------------|-------------------------|-------------------------------------|
| | | Chlorosulfonated Polyethylene ⁽¹⁾ | Silicone ⁽¹⁾ | Urethane ⁽¹⁾ | Ethylene • Propylene ⁽¹⁾ |
| | | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| Stainless steel ⁽²⁾ | Red | 800H-N5A | 800H-N101R | 800H-N100R | 800H-N103R |
| | Green | 800H-N5B | 800H-N101G | 800H-N100G | 800H-N103G |
| | Black | 800H-N5H | 800H-N101B | 800H-N100B | 800H-N103B |
| | Yellow | 800H-N5E | 800H-N101Y | 800H-N100Y | — |
| | Blue | 800H-N5C | 800H-N101BL | 800H-N100BL | — |

(1) Dots that are printed on the inside of the boot identify the boot material.

(2) Series B boots incorporate a stainless steel insert as standard.



Protective Boot Application Information

| Material | Description |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chlorosulfonated Polyethylene (synthetic rubber) | Resistant to attack by oxidizing chemicals such as concentrated sulfuric acid and hypochlorite solutions. Also resistant to attack by oils and performs well in a wide range of other chemicals and solvents. Good flex and high impact resistance. The standard boot material that is supplied with 800H NEMA Type 4/4X push buttons unless otherwise specified. |
| Silicone | Excellent high temperature resistance. Suited for use where organic acids or vegetable oils are present. Also excellent resistance to the effects of outdoor use, such as oxygen, ozone, and weather. |
| Urethane | Excellent resistance to mechanical failure. Most durable boot material. Suited for use where lubricating oils and automotive fuels are present. Also well suited for outdoor use. |
| Ethylene-propylene | Suited for high temperature applications. Resistant to attack by many acids and alkalis, detergents, phosphate esters, ketones, alcohols, and glycols. Outstanding service in areas with hot water and steam wash downs. |





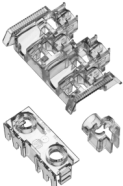



Potentiometer Replacement Knobs

| Description | Cat. No. |
|---------------------|--------------|
| Type 4/13 (800T) | 40274-073-55 |
| Type 4/4X/13 (800H) | 40274-073-54 |

Push Buttons

| | Description | Cat. No. |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|  <p>Cat. No. 800T-N179 (Operators not included)</p> | <p>Bul. 800T/H Mechanical Interlock Used on momentary contact push button units. Guards against closing the N.O. contacts of one button while the other N.O. contacts of the button are closed. Buttons remain momentary. For maintained units, see page 29.</p> | 800T-N179 |
|  <p>Cat. No. 800T-N12</p> | <p>Bul. 800T Rocker Arm Operating Lever The rocker arm lever operates two flush head or one flush with one extended head momentary contact push button units spaced 1-27/32 in. (46.8 mm) center-to-center. Legend plates must be ordered separately and should be inverted 180° before engraving and installation.</p> | 800T-N12 |

Miscellaneous

| | Description | Cat. No. |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|  Cat. No. 800T-N245 | Bul. 800T/H Mounting Ring Wrench This wrench simplifies tightening or loosening the octagonal mounting ring that is used on Bul. 800T units. This wrench is double-ended and can be used for 18 mm and 30 mm pilot light mounting rings. | 800T-N245 |
|  Cat. No. 800T-N209RE1 | Bul. 800T/H Jumbo Push-Pull Cap For use on Bul. 800T or 800H push-pull operators. Fits on illuminated and non-illuminated devices. | 800T-N209RE1 |
| | Bul. 800T 63 mm Red Anodized Aluminum Cap For use on Bul. 800T non-illuminated push-pull devices. | 800T-N210R |
| | Bul. 800T 63 mm Red Anodized Aluminum Cap with E-stop For use on Bul. 800T non-illuminated push-pull devices. | 800T-N210RE |
| | Bul. 800T 90 mm Gold Anodized Aluminum Cap For use on Bul. 800T non-illuminated push-pull devices. | 800T-N211GL |
|  Cat. No. 800T-N300 | Bul. 800T Bonding Bracket The bonding bracket establishes an electrical circuit between the mounting surface and metal operator bushing for grounding purposes; recommended for installations that require CSA approval. Necessary mounting hardware is included. Order Cat. No. 800T-N300 for back-of-panel bracket. Order Cat. No. 800T-N300F for front-of-panel bracket. | 800T-N300 |
| | | 800T-N300F |
|  Cat. No. 800E-ALR1 | Bul. 800T/H Lens/Bulb Removal Tool The small end of this tool provides quick and easy removal of any incandescent or LED lamp. | 800F-ALR1 |
|  IEC Fingersafe Accessories | Bul. 800T/H IEC Fingersafe Terminal Guards Snap-on accessories that provide IEC, IP2X, and VGB fingersafe protection. Single terminal guards for single circuit contact blocks, full-voltage modules, LED modules, and so on (800T-XD1, -XD2, -XD3, -XD4, -XD5, -XD6, -XAP, -XD1P, -XD2P, -PC..., and -QC...) ⁽¹⁾ | 800T-N322 ⁽²⁾ |
| | Transformer covers for transformer only. | 800T-N324 ⁽³⁾ |
| | Multi-terminal side cover for use on single or double circuit contact blocks. (800T-XA, -XA1, -XA2, -XA4, -XA7, -XAR, -XA2R, -XA4R, -XD1R, and -XD2R) | 800T-N323 ⁽³⁾ |
|  Cat. No. 800T-N292 | Gray Bul. 800T Trim Washer Used to mount the operator properly when a legend plate is not being used. | 800T-N292 ⁽⁴⁾ |
| | Plastic Bul. 800H Trim Washer Used to mount the operator properly when a legend plate is not being used. | 800H-N148 ⁽⁴⁾ |
|  Cat. No. 800T-N293 | Metal Bul. 800T Thrust Washer Used to help prevent rotation of operators in a keyed or notched hole. | 800T-N293 ⁽⁴⁾ |
| | Plastic Bul. 800H Thrust Washer Used to help prevent rotation of operators in a keyed or notched hole. | 800H-N146 ⁽⁴⁾ |
| | Description | Color |
|  Cat. No. 800T-N1 | Bul. 800T/H Closing Button Where an enclosure or flush plate with more than the required number of openings is used, this button can be supplied to close the unused openings. | Gray |
| | | Black |
| | | Cat. No. |
| | | 800T-N1 |
| | | 800T-N1B |









(1) Power modules excluding transformers and dual inputs.

(2) Must be ordered in multiples of 100 pieces.

(3) Must be ordered in multiples of 25 pieces.





(4) Must be ordered in multiples of 10 pieces.

Locking Attachments

| | Description | Cat. No. |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|  <p>Cat. No. 800T-N2 (Padlock not included)</p> | <p>Bul. 800T Extended Head Push Button Padlocking Attachments Permits locking in the depressed position. Locks the normally closed contact in the open position. For extended head non-illuminated momentary push buttons.</p> | 800T-N2 |
|  <p>Cat. No. 800T-N10 (Padlock not included)</p> | <p>Bul. 800T Flush Head Push Button Padlocking Attachments Permits locking in the depressed position. Locks the normally closed contact in the open position. For flush head push button.</p> | 800T-N10 |
|  <p>Cat. No. 800T-N315 (Padlock not included)</p> | <p>Bul. 800T Momentary Mushroom Padlocking Attachments For Bul. 800T non-illuminated momentary mushroom push button. Requires use of Cat. No. 800T-N311 mushroom cap. This device is used to lock the mushroom button in a depressed position.</p> | 800T-N315 |
|  <p>Cat. No. 800T-N314 (Padlock not included)</p> | <p>Bul. 800T/H Push-Pull Padlocking Attachment For 2-position push-pull and push-pull/twist release illuminated and nonilluminated operators. Use on standard head only (40 mm dia.). Locks the normally closed contacts open only. Conversion of normally closed late break contacts to standard normally closed contacts are recommended when using this accessory. Made of stainless steel.</p> | 800T-N314 |
|  <p>Cat. No. 800T-N163 (Padlock not included)</p> | <p>Bul. 800T/H Padlocking Cover Guards against unauthorized operation for non-illuminated, standard knob selector switches and potentiometers. Stainless steel and clear plastic construction.</p> | 800T-N163 |
|  <p>Cat. No. 800T-N378 (Padlock not included)</p> | <p>Bul. 800T/H Trigger Action Padlocking Attachment For 2-position trigger action E-stops with 45 mm heads.</p> | 800T-N378 |
|  <p>Cat. No. 800H-N140 (Padlock not included)</p> | <p>Bul. 800H/H Padlocking Cover Guards against unauthorized operation. For non-illuminated push buttons, 2-position push-pull or twist-release units, and standard knob selector switches. When applying Cat. No. 800H-N140 on 2-position maintained push-pull units, cover locks only when the button is in depressed position. Padlocking cover includes blank legend plate for customer marking. Note: A pre-marked legend plate is available. The words OPEN COVER TO OPERATE are on the front and PULL-TO-START-PUSH-TO-STOP are on the rear. To order legend plate only, specify Cat. No. 800H-W174L.</p> | 800H-N140 |
|  <p>Cat. No. 800T-NX446 (Padlock not included)</p> | <p>Bul. 800T 2- and 3-Position Non-illuminated Selector Switch Padlocking Attachment – Standard Knob Padlocking guard for 2- and 3-position selector switches with standard knob operators only. Locks selector switch in any maintained position. ⁽¹⁾</p> | 800T-NX446 |










(1) Diameter of hasp is 11/32 in. (8.73 mm).

Locking Attachments, Continued

| | Description | Position | Cat. No. |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Cat. No. 800H-N141R (Padlock not included)</p> | <p>Bul. 800H 2- and 3-Position Selector Switch with Padlocking Guards Padlocking guard for 2- and 3-position selector switches with standard knob operators only.</p> | <p>Left Center Right</p> | <p>800H-N141L 800H-N141C 800H-N141R</p> |
| | | <p>All</p> | <p>800H-N141A</p> |
|  <p>Cat. No. 800T-NX446A (Padlock not included)</p> | <p>Bul. 800T 4-Position Selector Switch Attachment – Standard Knob Kit includes selector switch and guard (padlock not included). Padlocking guard for 4-position selector switches with standard knob operators only. Locks selector switch in any maintained position. ⁽¹⁾</p> | | <p>800T-NX446A</p> |
| | Description | Position | Cat. No. |
|  <p>Cat. No. 800H-N316J (Padlock not included)</p> | <p>Bul. 800T/H Non-Illuminated Selector Switch Padlocking Attachment 2-, 3-, and 4-position selector switch padlocking attachments. Can be used to lock operators in a desired position. For 3-position selector switches, this device can also be used to lock out a left or right position as shown in the photo to the left.</p> | <p>For 2- and 3-position Selector Switches Left Center Right Window Center through Right - Prevent Left Operation Window Center through Left - Prevent Right Operation For 4-position Selector Switches Left (Pos. 1) Center Left (Pos. 2) Center Right (Pos. 3) Right (Pos. 4)</p> | <p>800T-N316L 800T-N316C 800T-N316R 800T-N316J 800T-N316K 800T-N317L 800T-N317CL 800T-N317CR 800T-N317R</p> |
|  <p>Cat. No. 800H-N4162L (Padlock not included)</p> | <p>Bul. 800T/H Illuminated Selector Switch Padlocking Attachment 2- and 3-position selector switch padlocking attachments for illuminated selector switches. Stainless steel material</p> | <p>For 2-position Selector Switches Left Right For 3-position Selector Switches Left Center Right Window Center through Right - Prevent Left Operation Window Center through Left - Prevent Right Operation</p> | <p>800T-N4162L 800T-N4162R 800T-N4163L 800T-N4163C 800T-N4163R 800T-N4163J 800T-N4163K</p> |




(1) Diameter of hasp is 11/32 in. (8.73 mm).

Guards

| | Description | Type | Cat. No. |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------|
|  <p>Cat. No. 800T-N13</p> | <p>Bul. 800T Push Button Guards Momentary push button guards to reduce the risk of accidental operation.</p> | 1 in. guard for non-illuminated | 800T-N13 |
| | | 1/2 in. guard for non-illuminated | 800T-N143 |
| | | 1-1/2 in. guard for illuminated | 800T-N93 |
| | | 1-1/2 in. guard for non-illuminated with locking attachment | 800T-N39 |
|  <p>Cat. No. 800H-N152</p> | <p>Bul. 800H Illuminated Push Button Guard This guard provides additional protection against accidental operation of the push button unit. 1-1/2 in. (38.1 mm) guard for illumination units.</p> | | 800H-N152 |
|  <p>Cat. No. 800T-N226</p> | <p>Bul. 800T 18 mm Guard Provides side protection for 18 mm pilot lights.</p> | | 800T-N226 |
|  <p>Cat. No. 800H-N153</p> | <p>Bul. 800H Stainless Steel Guard Used on non-illuminated push buttons that have protective boots as shown on page 47.</p> | | 800H-N153 |
|  <p>Cat. No. 800T-N129</p> | <p>Bul. 800T Mushroom Push Button Guards Momentary mushroom guards for standard and jumbo mushroom push buttons. Reduces the risk of accidental operation.</p> | Standard guard | 800T-N129 |
| | | Standard guard with set screw | 800T-N165 |
| | | Jumbo guard | 800T-N151 |
| | | Jumbo guard with set screw | 800T-N154 |
| | Description | Type of Finish | Cat. No. |
|  <p>Cat. Nos. 800T-N310 and 800T-NX1320</p> | <p>Bul. 800T/H Protective Guard Protective ring for Bul. 800T 2-position push-pull operators. Illuminated or non-illuminated. Often used to avoid unintentional tripping of E-stop operators. This guard is used with standard-size button (40 mm dia.).</p> | Stainless steel | 800T-N310 |
| | | Black | 800T-NX1320 |
| | Description | Operator Size | Cat. No. |
|  <p>Cat. No. 800T-N310J</p> | <p>Bul. 800T/H Jumbo Protective Guard Protective ring for Bul. 800T 2-position push-pull operators. Illuminated or non-illuminated. Often used to avoid unintentional tripping of E-stop operators.</p> | 60 mm (Jumbo) | 800T-N310J |
| | | 63 mm | 800T-N310L |
|  <p>Cat. No. 800H-NTA60G</p> | <p>Bul. 800T/H Protective Guard Protective ring for Bul. 800T trigger action E-stop operators.</p> | 45 mm | 800T-N381 |
| | | 60/63 mm | 800H-NTA60G |
|  <p>Cat. No. 800T-N339</p> | <p>Bul. 800T/H Ramp Guard For Bul. 800T/800H 2- and 3-position illuminated and non-illuminated push-pull units. Standard-size button only (40 mm dia.).</p> | | 800T-N339 |

Replacement Lamps

Table 32 - Pilot Lights, Illuminated Push Buttons, Illuminated Push-Pull, Illuminated Push-Pull/Twist to Release, and Illuminated Selector Switches

| Lamp | Type | Current, Typical | Lamp Voltage | ANSI No. | Catalog Voltage Code | Cat. No. |
|-------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------|-------------------|-----------------|---------------------------|--------------------------|
|  | Full-voltage Transformer | 150 mA/250 mA | 6.3V AC | 755/1866 | 6, 16, 26, 36, 46, 56, 76 | 800T-N65 ⁽¹⁾ |
| | Full Voltage | 80 mA | 14V AC/DC | 756 | 12 | 800T-N141 ⁽¹⁾ |
| | | 70 mA | 24V AC/DC | 757 | 24 | 800T-N157 ⁽¹⁾ |
| | | 50 mA | 48V AC/DC | 1835 | 48 | 800T-N365 ⁽¹⁾ |
| | Full-voltage Resistor | 22 mA | 120V AC/DC | 949 | 10, 11 | 800T-N169 ⁽¹⁾ |
| | Flashing | 150 mA | 6V AC/DC | 267 | 6 | 800T-N212 ⁽¹⁾ |
| Dual-input Diode | 57 mA | 24V AC/DC | 24 MB | 24 | 800T-N180 ⁽¹⁾ | |
| | 21 mA | 120V AC | 90 MB | 16 | 800T-N261 ⁽¹⁾ | |
| Neon  | — | 2 mA | 120V AC/DC | B2A | 10, 20 | 609-N9 |
| Lamp | Type | Current, Typical | Lamp Voltage | Leakage Current | Code | Cat. No. ⁽²⁾ |
|  | Universal | 13 mA @ 24V DC 8.5 mA @ 120V AC ⁽³⁾ | 3V ⁽⁴⁾ | 3 mA | 2 | 800T-N376x |
| | Transformer | 60 | 6V | 14 mA | 16, 26, 46, 56 | 800T-N377x |


(1) Item is sold in multiples of five. Order quantity of five to receive package of five pieces.

(2) To complete the cat. no. replace the x with the first letter of the desired color: Green, Red, or White.

(3) Typical current consumption values that are indicated are relative to the input of the power module.

(4) Lamp is intended for use with power module Cat. No. 800TC-N374, which has an input voltage rating of 12 ...130V AC/DC.

Table 33 - Legacy LED Lamps

| Lamp | Type | Current, Typical | Lamp Voltage | Leakage Current | Catalog Voltage Code | Cat. No. ⁽¹⁾⁽²⁾ |
|-------------------------------------------------------------------------------------|-------------------------|------------------|------------------|-----------------|----------------------|----------------------------|
|  | Full Voltage | 16 mA | 24...48V AC/DC | 3 mA | 24, 32, 48 | 800T-N419x |
| | | 12 mA | 120...130V AC/DC | 3 mA | 10, 13 | 800T-N421x |
| | Flashing ⁽⁴⁾ | 18 mA | 24V AC/DC | — | — | 800T-N319Fx |


(1) In full-voltage applications, these lamps are intended to be used with power module Cat. No. 800T-N330.

(2) To complete the cat. no. replace the x with the first letter of the desired color: Green, Red, or White.

(3) All LEDs have an internal shunt resistor for use with solid-state outputs. LEDs do not illuminate below the listed leakage current.

(4) Flashing rate is 2 Hz.

Table 34 - Cluster Pilot Lights

| Lamp | Type | Current, Typical | Lamp Voltage | Polarity | Cat. No. |
|-------------------------------------------------------------------------------------|--------------|------------------|--------------|----------|---------------------------|
|  | Full Voltage | 15 mA | 12V AC/DC | Bi-polar | 800T-N341W ⁽¹⁾ |
| | | | 28V AC/DC | | 800T-N80W ⁽²⁾ |

(1) Can also be used for replacement in transformer type and 6V full voltage cluster pilot light units.

(2) For use with 24V AC/DC rated devices.

Replacement Keys for Cylinder Lock 2-, 3-, and 4-position Selector Switches (Bulletin 800T only)

| Cylinder Lock Key Option Code | Series Key Number | Cat. No. | Cylinder Lock Key Option Code | Series Key Number | Cat. No. |
|-------------------------------|---------------------|----------|-------------------------------|---------------------|--------------|
| Blank (standard key) | D018 (standard key) | X-181170 | 15 | T112 ⁽¹⁾ | 40269-087-01 |
| 03 | D020 ⁽²⁾ | X-307922 | 16 | T115 ⁽¹⁾ | 40269-087-02 |
| 04 | D025 ⁽²⁾ | X-307923 | 17 | T324 ⁽¹⁾ | 40269-087-03 |
| 05 | D335 ⁽²⁾ | X-307924 | 18 | T382 ⁽¹⁾ | 40269-087-04 |
| 06 | D429 ⁽²⁾ | X-307925 | 19 | T404 ⁽¹⁾ | 40269-087-05 |
| 07 | D461 ⁽²⁾ | X-307926 | 20 | T171 ⁽¹⁾ | 40269-087-06 |
| 08 | D111 ⁽²⁾ | X-307927 | 21 | T484 ⁽¹⁾ | 40269-087-07 |
| 09 | D587 ⁽²⁾ | X-307928 | 22 | T547 ⁽¹⁾ | 40269-087-08 |
| 10 | D682 ⁽²⁾ | X-307929 | 23 | T569 ⁽¹⁾ | 40269-087-09 |
| 11 | D713 ⁽²⁾ | X-307930 | 24 | T692 ⁽¹⁾ | 40269-087-10 |
| 12 | D900 ⁽²⁾ | X-307931 | 25 | T752 ⁽¹⁾ | 40269-087-11 |
| 13 | D992 ⁽²⁾ | X-307932 | 26 | T178 ⁽¹⁾ | 40269-087-12 |
| 14 | D118 ⁽²⁾ | X-307933 | | | |

(1) Uses master key 15T, Cat. No. X-433359.

(2) Uses master key DM81, Cat. No. X-433358.

Replacement Keys for Push Button Switches with Cylinder Locks (Bulletin 800T only)

| Lock Key Option Code | | | Series Key Number | Cat. No. |
|----------------------|----------------------|----------------------|---------------------|--------------|
| Spring Bolt | Dead Bolt A | Dead Bolt B | | |
| Blank (standard key) | Blank (standard key) | Blank (standard key) | E158 (standard key) | X-144218 |
| 44 | 32 | 20 | E109 | X-386233 |
| 45 | 33 | 21 | E131 | X-386234 |
| 46 | 34 | 22 | E100 | X-386235 |
| 47 | 35 | 23 | E115 | X-386236 |
| 48 | 36 | 24 | E120 | X-386237 |
| 49 | 37 | 25 | E104 | X-386238 |
| 50 | 38 | 26 | E108 | X-386239 |
| 51 | 39 | 27 | E132 | X-386240 |
| 52 | 40 | 28 | E144 | X-386241 |
| 53 | 41 | 29 | E157 | X-386242 |
| 54 | 42 | 30 | E101 | X-386243 |
| 55 | 43 | 31 | E102 | 40274-250-01 |
| 66 | 61 | 56 | E106 | 40274-250-07 |
| 67 | 62 | 57 | E111 | 40274-250-02 |
| 68 | 63 | 58 | E117 | 40274-250-14 |
| 69 | 64 | 59 | E125 | 40274-250-21 |
| 70 | 65 | 60 | E130 | 40274-250-26 |

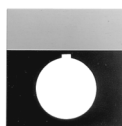
Legend Plates – Aluminum, Type 4/13 (Bulletin 800T)

Blank/Custom Legend Plates



| Legend Plate Color | Standard | Jumbo |
|---------------------------|------------|-------------|
| | Cat. No. | Cat. No. |
| Gray | 800T-X559 | 800T-X559J |
| Red | 800T-X621 | 800T-X621J |
| Yellow | 800T-X679 | 800T-X679J |
| Gray (with custom text) | 800T-X559E | 800T-X559JE |
| Red (with custom text) | 800T-X621E | 800T-X621JE |
| Yellow (with custom text) | 800T-X679E | 800T-X679JE |

Specialty Legend Plates



| Legend Plate Color | Automotive | Half Round ⁽¹⁾ |
|----------------------------------------|------------|---------------------------|
| | Cat. No. | Cat. No. |
| Gray (blank) | 800T-X700 | 800T-X59 |
| Red (blank) | 800T-X701 | 800T-X121 |
| Gray (with custom text) ⁽²⁾ | – | 800T-X59E |
| Red (with custom text) ⁽²⁾ | – | 800T-X121E |

(1) All half round legend plates must be ordered in quantities of 25.

(2) Include text with custom legends. See [Table 35](#) for guidelines.

Table 35 - Custom Text Guidelines

| Legend Size | Number of Lines | Number of Characters per Line, Max |
|-------------|-----------------|------------------------------------|
| Standard | 1 or 2 lines | 14 |
| Jumbo | 5 lines | 14 |
| Automotive | 4 lines | 20 |

Custom Legend Plates for 4-way Toggle and Cluster Pilot Lights

| Legend Size | Cat. No. ⁽¹⁾ | Color | Text Options ⁽²⁾ |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard | 800T-X619E | Aluminum (with custom text) | <ul style="list-style-type: none"> • 2 lines of up to 14 characters on top • 1 line of up to 14 characters on bottom • 1 vertical line of up to 7 characters on left side • 1 vertical line of up to 7 characters on right side <hr/> <ul style="list-style-type: none"> • 1 vertical line of up to 9 characters on left side • 1 vertical line of up to 9 characters on right side |

(1) For blank toggle or cluster pilot legend, order Cat. No. 800T-X619.


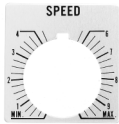
(2) Rule sets listed are mutually exclusive; only one can be chosen.

Specialty Legend Plates




| Type | Start/Stop Legend Plates | | Emergency Stop Legend Plates | | |
|------------------------------------------------------------------------------|--------------------------|------------|------------------------------|-----------------|--|
| | Gray | Yellow | Yellow (Large Size) | Yellow IEC Ring | |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | |
| Push-to-Stop Pull-to-Start or Push-to-Stop Twist or Pull Release | 800T-X618 | 800T-X618Y | 800T-X647Y | — | |
| Blank | — | — | 800T-X645Y | 800T-X646 | |
| Custom | — | — | 800T-X645YE | — | |
| Emergency Stop | — | — | — | 800T-X646EM | |

Potentiometer Legend Plates

| | Type | Cat. No. |
|------------------------------------------------------------------------------------|---------------------------------------|--------------------------|
|  | Potentiometer with graduated markings | 800T-X609 ⁽¹⁾ |
|  | SPEED | 800T-X608 |

(1) For graduated markings with a custom text, order Cat. No. 800T-X609E and specify up to two lines of text, 14 characters per line.

18 mm Legend Plates

| | Type | Description | Cat. No. |
|-----------------------------------------------------------------------------------------------------------|------------------------------------|------------------|------------|
|  Cat. No. 800T-N515 | Blank | Type A | 800T-N515 |
| | | Type B | 800T-N516 |
| | With custom marking ⁽¹⁾ | Type A with text | 800T-N515E |
| | | Type B with text | 800T-N516E |

(1) Text must be supplied. See [Table 36](#) for guidelines.

Table 36 - Custom Text Guidelines

| Legend Type | Number of Lines | Maximum Number of Characters per Line |
|-------------|-----------------|---------------------------------------|
| A | 1 | 9 |
| B | 2 | 13 |

Standard Legend Plates



Standard Legend Plate



Jumbo Legend Plate

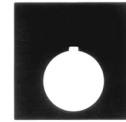
| Marking | Standard | Jumbo | Marking | Standard | Jumbo |
|-------------------------------------|------------|------------|----------------------|-----------|------------|
| | Cat. No. | Cat. No. | | Cat. No. | Cat. No. |
| AUTO-OFF-HAND | 800T-X501 | 800T-X501J | ON-OFF | 800T-X622 | 800T-X622J |
| AUTO-MAN-OFF | 800T-X625 | 800T-X625J | OPEN | 800T-X531 | 800T-X531J |
| CLOSE | 800T-X502 | 800T-X502J | OPEN-CLOSE | 800T-X532 | 800T-X532J |
| CYCLE START | 800T-X562 | 800T-X562J | OPEN-OFF-CLOSE | 800T-X533 | 800T-X533J |
| DOWN | 800T-X503 | 800T-X503J | OUT | 800T-X534 | 800T-X534J |
| EMERG. STOP (Yellow) | 800T-X504Y | — | POWER ON | 800T-X639 | 800T-X639J |
| EMERG. STOP (Red) ⁽¹⁾ | 800T-X504 | 800T-X504J | RAISE | 800T-X535 | 800T-X535J |
| EMERGENCY STOP (Red) ⁽¹⁾ | 800T-X648 | 800T-X648J | RAISE-LOWER | 800T-X536 | 800T-X536J |
| FAST | 800T-X505 | 800T-X505J | RAISE-OFF-LOWER | 800T-X537 | 800T-X537J |
| FEED START | 800T-X566 | 800T-X566J | RESET | 800T-X538 | 800T-X538J |
| FEED STOP | 800T-X567 | 800T-X567J | REVERSE | 800T-X539 | 800T-X539J |
| FOR.-REV. | 800T-X506 | 800T-X506J | RUN | 800T-X540 | 800T-X540J |
| FOR.-OFF-REV. | 800T-X507 | 800T-X507J | RUN-INCH | 800T-X634 | 800T-X634J |
| FORWARD | 800T-X508 | 800T-X508J | RUN-JOG | 800T-X541 | 800T-X541J |
| FOURTH SPEED | 800T-X624 | 800T-X624J | SAFE-RUN | 800T-X542 | 800T-X542J |
| FULL SPEED | 800T-X509 | 800T-X509J | SECOND SPEED | 800T-X543 | 800T-X543J |
| HAND-AUTO | 800T-X510 | 800T-X510J | SPEED ⁽²⁾ | 800T-X608 | — |
| HAND-OFF-AUTO | 800T-X511 | 800T-X511J | SLOW | 800T-X544 | 800T-X544J |
| HIGH | 800T-X512 | 800T-X512J | SLOW-FAST | 800T-X545 | 800T-X545J |
| HIGH-LOW | 800T-X513 | 800T-X513J | SLOW-OFF-FAST | 800T-X546 | 800T-X546J |
| HIGH-OFF-LOW | 800T-X514 | 800T-X514J | START | 800T-X547 | 800T-X547J |
| IN | 800T-X515 | 800T-X515J | START-JOG | 800T-X548 | 800T-X548J |
| INCH | 800T-X516 | 800T-X516J | START-STOP | 800T-X549 | 800T-X549J |
| JOG | 800T-X517 | 800T-X517J | STOP (Red) | 800T-X550 | 800T-X550J |
| JOG FORWARD | 800T-X518 | 800T-X518J | STOP-START | 800T-X551 | 800T-X551J |
| JOG REVERSE | 800T-X519 | 800T-X519J | SUMMER-OFF-WINTER | 800T-X553 | 800T-X553J |
| JOG RUN | 800T-X520 | 800T-X520J | SUMMER-WINTER | 800T-X552 | 800T-X552J |
| JOG-SAFE-RUN | 800T-X522 | 800T-X522J | TEST | 800T-X554 | 800T-X554J |
| JOG-STOP-RUN | 800T-X521 | 800T-X521J | THIRD SPEED | 800T-X555 | 800T-X555J |
| LEFT-RIGHT | 800T-X523 | 800T-X523J | UP | 800T-X556 | 800T-X556J |
| LOCAL-REMOTE | 800T-X638 | 800T-X638J | UP-DOWN | 800T-X557 | 800T-X557J |
| LOW | 800T-X524 | 800T-X524J | UP-OFF-DOWN | 800T-X558 | 800T-X558J |
| LOW SPEED | 800T-X525 | 800T-X525J | 0 (Red) | 800T-X640 | 800T-X640J |
| LOWER | 800T-X526 | 800T-X526J | I | 800T-X641 | 800T-X641J |
| OFF | 800T-X527 | 800T-X527J | 0 I | 800T-X642 | 800T-X642J |
| OFF-COOLANT-ON | 800T-X528 | 800T-X528J | I 0 II | 800T-X643 | 800T-X643J |
| OFF-ON | 800T-X529 | 800T-X529J | | | |
| ON | 800T-X530 | 800T-X530J | | | |

(1) These legend plates do not comply with E-stop standards that specify a yellow background, such as IEC 60947-5-5 and NFPA 79.

(2) Potentiometer type with graduated markings.

Legend Plates – Plastic, Type 4/4X (Bulletin 800H)

Blank/Custom Legend Plates



Type 4/4X


| Legend Plate Color | Standard | Jumbo | Automotive |
|------------------------------------------|------------|-------------|-------------|
| | Cat. No. | Cat. No. | Cat. No. |
| Gray (Blank) | 800H-W100 | 800H-W100J | 800H-W100A |
| Red (Blank) | 800H-W300 | 800H-W300J | 800H-W300A |
| White (Blank) | 800H-W500 | 800H-W500J | 800H-W500A |
| Yellow (Blank) | 800H-W700 | 800H-W700J | 800H-W700A |
| Gray (with Custom Text) ⁽¹⁾ | 800H-W100E | 800H-W100JE | 800H-W100AE |
| Red (with Custom Text) ⁽¹⁾ | 800H-W300E | 800H-W300JE | 800H-W300AE |
| White (with Custom Text) ⁽¹⁾ | 800H-W500E | 800H-W500JE | 800H-W500AE |
| Yellow (with Custom Text) ⁽¹⁾ | 800H-W700E | 800H-W700JE | 800H-W700AE |

(1) Include text with custom legends. See [Table 37](#) for guidelines.




Table 37 - Custom Text Guidelines

| Legend Size | Number of Lines | Maximum Number of Characters per Line |
|-------------|-----------------|---------------------------------------|
| Standard | 1 or 2 Lines of | 13 |
| Jumbo | 5 Lines | 13 |
| Automotive | 4 Lines | 16 |

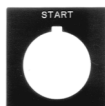
Potentiometer Legend Plate

| | Legend Marking | Cat. No. |
|-------------------------------------------------------------------------------------|--------------------------------------|------------|
|  | Graduated Markings Only | 800H-W080 |
| | SPEED | 800H-W081 |
| | Custom Legend with Graduated Marking | 800H-W080E |

Start/Stop and Emergency Stop Legend Plates

| |  |  |  |
|-------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type | Start/Stop Legend Plates | Emergency Stop Legend Plates | |
| | Gray | Yellow (Large Size) | Yellow IEC Ring |
| | Cat. No. | Cat. No. | Cat. No. |
| Push-to-Stop Pull-to-Start | 800H-W196 | 800H-W797A | – |
| Blank | – | 800H-W700A | 800H-W690 |
| Custom | 800H-W100E | 800H-W700AE | – |

Standard Legend Plates



Gray Legend Plate (Type 4/4X)



White Legend Plate (Type 4/4X)

| Marking | Gray Type 4/4X | White Type 4/4X | Marking | Gray Type 4/4X | White Type 4/4X | Marking | Gray Type 4/4X | White Type 4/4X |
|----------------------------------------|-------------------|--------------------|-----------------------|-------------------|--------------------|----------------------|-------------------|--------------------|
| | Cat. No. | Cat. No. | | Cat. No. | Cat. No. | | Cat. No. | Cat. No. |
| AUTO OFF HAND | 800H-W154 | 800H-W554 | LEFT | 800H-W004 | 800H-W404 | RIGHT | 800H-W005 | 800H-W405 |
| AUTO MAN OFF | 800H-W059 | 800H-W459 | LEFT RIGHT | 800H-W036 | — | RUN | 800H-W123 | 800H-W523 |
| CLOSE | 800H-W101 | 800H-W501 | LOC OFF REMOTE | 800H-W055 | 800H-W455 | RUN INCH | 800H-W037 | — |
| CYCLE START | 800H-W006 | 800H-W406 | LOW | 800H-W113 | 800H-W513 | RUN JOG | 800H-W032 | — |
| CYCLE STOP (Red) | 800H-W376 | — | LOW HIGH | 800H-W035 | — | SAFE RUN | 800H-W033 | — |
| DECREASE | 800H-W002 | 800H-W402 | LOW OFF HIGH | 800H-W056 | — | SECOND SPEED | 800H-W124 | 800H-W524 |
| DOWN | 800H-W102 | 800H-W502 | LOW SPEED | 800H-W114 | 800H-W514 | SLOW | 800H-W125 | 800H-W525 |
| EMERG. STOP (Red) ⁽¹⁾ | 800H-W372 | — | LOWER | 800H-W115 | 800H-W515 | SLOW FAST | 800H-W136 | 800H-W536 |
| | | | MAN AUTO | 800H-W031 | 800H-W431 | SLOW OFF FAST | 800H-W157 | 800H-W557 |
| EMERGENCY STOP (Red) ⁽¹⁾ | 800H-W373 | — | MAN OFF AUTO | 800H-W062 | 800H-W462 | SPEED ⁽²⁾ | 800H-W081 | 800H-W481 |
| | | | MOTOR RUN | 800H-W008 | 800H-W408 | SPEED ⁽²⁾ | 800H-W182 | — |
| FAST | 800H-W104 | 800H-W504 | MOTOR STOP (Red) | 800H-W375 | — | START | 800H-W126 | 800H-W526 |
| FEED START | 800H-W007 | — | | | | START JOG | 800H-W138 | 800H-W538 |
| FEED STOP (Red) | 800H-W377 | — | OFF | 800H-W116 | 800H-W516 | START JOG STOP | 800H-W158 | 800H-W558 |
| FOR. REV. | 800H-W132 | 800H-W532 | OFF COOLANT ON | 800H-W052 | 800H-W452 | START RUN STOP | 800H-W054 | — |
| FOR. OFF REV. | 800H-W152 | 800H-W552 | | | | START STOP | 800H-W137 | 800H-W537 |
| FORWARD | 800H-W105 | 800H-W505 | OFF LOC REMOTE | 800H-W061 | — | STOP (Red) | 800H-W371 | — |
| FOURTH SPEED | 800H-W010 | — | OFF MAN AUTO | 800H-W060 | 800H-W460 | STOP RUN START | 800H-W053 | — |
| FULL SPEED | 800H-W106 | 800H-W506 | OFF ON | 800H-W133 | 800H-W533 | STOP START | 800H-W038 | 800H-W438 |
| HAND AUTO | 800H-W131 | 800H-W531 | ON | 800H-W117 | 800H-W517 | SUMMER OFF WINTER | 800H-W159 | 800H-W559 |
| HAND OFF AUTO | 800H-W151 | 800H-W551 | OPEN | 800H-W118 | 800H-W518 | | | |
| HIGH | 800H-W107 | 800H-W507 | OPEN CLOSE | 800H-W134 | 800H-W534 | SUMMER WINTER | 800H-W139 | 800H-W539 |
| HIGH LOW | 800H-W030 | — | OPEN OFF CLOSE | 800H-W153 | 800H-W553 | | | |
| HIGH LOW OFF | 800H-W058 | — | OUT | 800H-W119 | 800H-W519 | TEST | 800H-W128 | 800H-W528 |
| HIGH OFF LOW | 800H-W155 | 800H-W555 | POWER ON | 800H-W001 | 800H-W401 | THIRD SPEED | 800H-W129 | 800H-W529 |
| IN | 800H-W108 | 800H-W508 | PULL-TO-START | 800H-W198 | — | UP | 800H-W009 | 800H-W409 |
| INCH | 800H-W109 | 800H-W509 | PUSH-TO-STOP (Red) | 800H-W378 | — | UP DOWN | 800H-W039 | — |
| INCREASE | 800H-W003 | — | | | | UP OFF DOWN | 800H-W160 | 800H-W560 |
| JOG | 800H-W110 | 800H-W510 | RAISE | 800H-W120 | 800H-W520 | 0 (Red) | 800H-W184 | — |
| JOG FORWARD | 800H-W111 | 800H-W511 | RAISE LOWER | 800H-W034 | — | 0 I | 800H-W185 | 800H-W582 |
| JOG REVERSE | 800H-W112 | 800H-W512 | RAISE OFF LOWER | 800H-W156 | 800H-W556 | I | 800H-W181 | 800H-W581 |
| JOG RUN | 800H-W135 | 800H-W535 | | | | I 0 II | 800H-W183 | 800H-W583 |
| JOG SAFE RUN | 800H-W051 | — | RESET | 800H-W121 | 800H-W521 | | | |
| JOG STOP RUN | 800H-W057 | — | REVERSE | 800H-W122 | 800H-W522 | | | |

(1) These legend plates do not comply with E-stop standards that specify a yellow background, such as IEC 60947-5-5 and NFPA 79.

(2) Potentiometer type with graduated markings.

Flip Lever Legend Plates (for use with Series D operators)

| Marking | Gray (Type 4/4X) | Marking | Gray (Type 4/4X) | Marking | Gray (Type 4/4X) |
|-----------------------------------|------------------|-------------|------------------|--------------|------------------|
| | Cat. No. | | Cat. No. | | Cat. No. |
| Blank | 800H-W200 | LOW | 800H-W213 | RUN | 800H-W223 |
| Customer-specified ⁽¹⁾ | 800H-W200E | BAS | 800H-W213F | EN MARCHE | 800H-W223F |
| CLOSE | 800H-W201 | LOW SPEED | 800H-W214 | SECOND SPEED | 800H-W224 |
| FERMER | 800H-W201F | VITESSE MIN | 800H-W214F | VITESSE 2 | 800H-W224F |
| DOWN | 800H-W202 | LOWER | 800H-W215 | SLOW | 800H-W225 |
| DESCENDRE | 800H-W202F | ABAISSER | 800H-W215F | LENT | 800H-W225F |
| FAST | 800H-W204 | OFF | 800H-W216 | START | 800H-W226 |
| RAPIDE | 800H-W204F | ARRÊTER | 800H-W216F | MARCHE | 800H-W226F |
| FORWARD | 800H-W205 | ON | 800H-W217 | TEST | 800H-W228 |
| AVANT | 800H-W205F | DÉMARRER | 800H-W217F | ESSAI | 800H-W228F |
| FULL SPEED | 800H-W206 | OPEN | 800H-W218 | THIRD SPEED | 800H-W229 |
| VITESSE MAX | 800H-W206F | OUVRIR | 800H-W218F | VITESSE 3 | 800H-W229F |
| HIGH | 800H-W207 | OUT | 800H-W219 | I | 800H-W281 |
| HAUT | 800H-W207F | SORTIR | 800H-W219F | O | 800H-W284 |
| IN | 800H-W208 | RAISE | 800H-W220 | LEFT | 800H-W286 |
| ENTRER | 800H-W208F | ÉLEVER | 800H-W220F | GAUCHE | 800H-W286F |
| INCH | 800H-W209 | RESET | 800H-W221 | RIGHT | 800H-W287 |
| POUCE | 800H-W209F | RÉARMER | 800H-W221F | DROITE | 800H-W287F |
| JOG | 800H-W210 | REVERSE | 800H-W222 | UP | 800H-W288 |
| À COUPS | 800H-W210F | ARRIERE | 800H-W222F | EN HAUT | 800H-W288F |

(1) 12 characters, max

| Marking | Red (Type 4/4X) |
|-----------------------------------|-----------------|
| | Cat. No. |
| Blank | 800H-W400 |
| Customer-specified ⁽¹⁾ | 800H-W400E |
| EMERG. STOP | 800H-W472 |
| ARRÊT URGENT | 800H-W472F |
| STOP | 800H-W471 |
| ARRET | 800H-W471F |
| O | 800H-W484 |

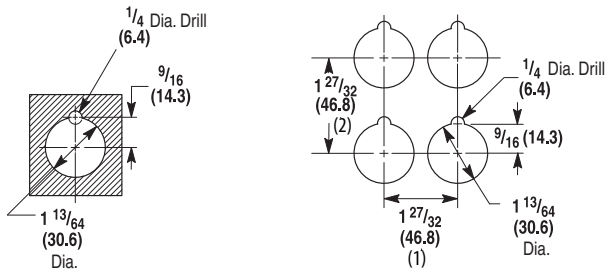
(1) 12 characters, max

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Mounting Instructions for Push Buttons with Shallow Blocks, Mini Blocks, Logic Reed Blocks, Sealed Switch Blocks, and Time Delay Blocks

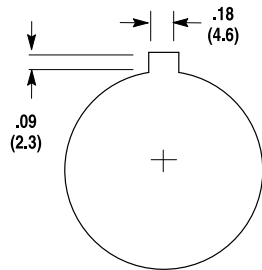
[Figure 2](#) shows the minimum distance between centerlines when mounting Bulletin 800T/H controls either side by side, facing each other, or one above the other. When control units are mounted so that the contact block terminals face each other, the 2-1/4 in. (57.2 mm) dimension must be used to get proper electrical clearance. When control units are mounted so that the contact block terminals do not face each other, the 1-27/32 in. (46.8 mm) dimension can be used. (See footnotes following [Figure 2](#) for exceptions)

Figure 2 - Minimum Distance Between Centerlines



- (1) Change to 2-1/4 in. (57.2 mm) for transformer type pilot light, push-to-test pilot lights, illuminated selector switches, and all push-pull buttons.
Note: Large legend plate requires minimum horizontal spacing of 2-15/32 in. (62.7 mm).
- (2) Vertical minimum spacing dimension changes for the following legend plates:
 jumbo 2-15/32 in. (62.7 mm); large 2-7/16 in. (61.9 mm); cluster pilot light and 2-, 3-, 4-way switches 2-1/16 in. (52.4 mm).

Typical Panel Cut-out



Panel Thickness

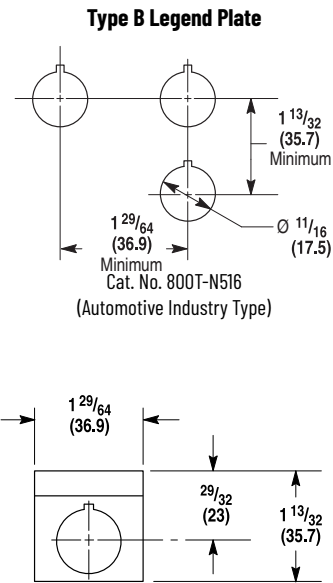
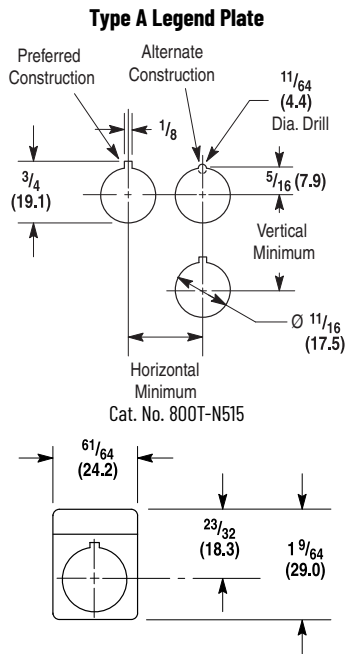
Kits are shipped with three 1/16 in. (1.58 mm) gaskets. See [Table 38](#) for the number of washers that are required for various panel thicknesses.

Table 38 - Washers Required

| Bulletin | 1/16 in. (1.6 mm) (16 Gauge) | 7/64 in. (2.8 mm) (12 Gauge) 9/64 in. (3.6 mm) (10 Gauge) | 3/16 in. (4.8 mm) Panel | Thicker Than 3/16 in. (4.8 mm) Panel | Thicker Than 1/4 in. (6.4 mm) Panel |
|----------|---------------------------------|--------------------------------------------------------------------|-------------------------|-----------------------------------------|----------------------------------------|
| 800T | 3 washers | 2 washers | 1 washer | Counterbore to 3/16 in. (4.8 mm) | Counterbore to 3/16 in. (4.8 mm) |
| 800H | 4 washers | 3 washers | 2 washers | 1 washer | Counterbore to 1/4 in. (6.4 mm) |

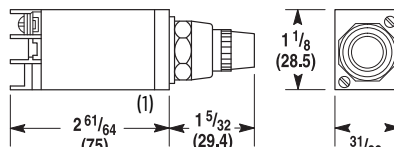
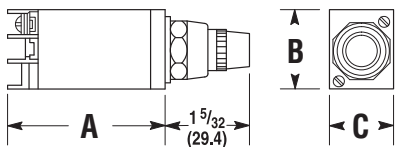
18 mm Small Pilot Lights

Mounting Instructions



| Device | Dimensions [in. (mm)] | |
|-------------------------------------|-----------------------|----------------|
| | Horizontal | Vertical |
| 800T-PS, PSD, PST, QS, QST, and RST | 31/32 (24.6) | 1-5/32 (29.4) |
| 800T-PSDT | 1-3/64 (26.6) | 1-15/64 (31.4) |

Dimensions



Small Pilot Light Including Push-to-Test
Shipping Weight 3 oz (0.08 kg)

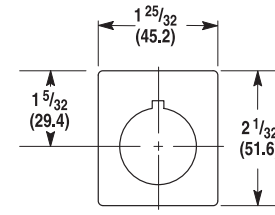
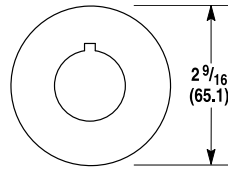
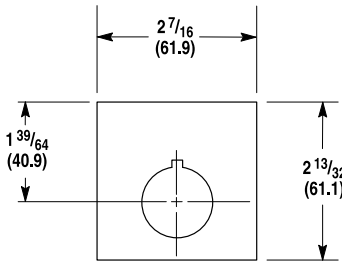
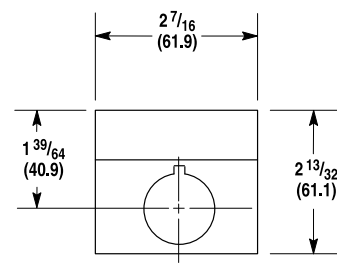
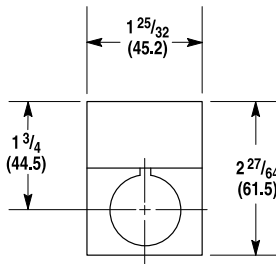
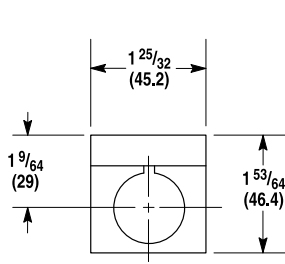
Small Pilot Light Dual-input (Diode)
Shipping Weight 3 oz (0.08 kg)

(1) dual-input transformer pilot light dimension is 2-31/32 in. (75.4 mm).

| Device | Dimensions [in. (mm)] | | |
|------------------------------------------|-----------------------|----------------|--------------|
| | A | B | C |
| 800T-PS, -PSD, -PST, -QS, -QST, and -RST | 2-1/4 (57.2) | 1-1/16 (27) | 27/32 (21.4) |
| 800T-PSDT | 2-61/64 (75) | 1-15/64 (31.4) | 31/32 (24.6) |

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Legend Plate Dimensions (Bulletin 800T Only)



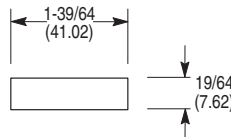
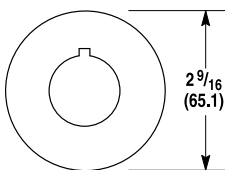
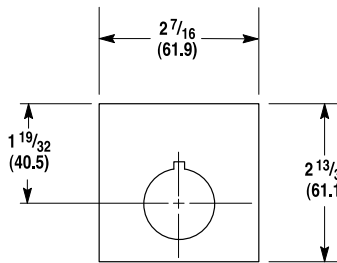
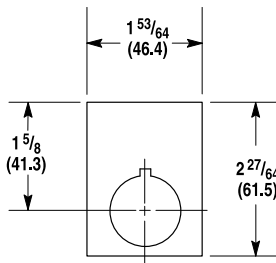
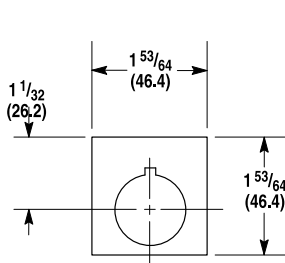
Cat. No. 800T-X647⁽¹⁾

Cat. No. 800T-X646⁽¹⁾

Cat. No. 800T-X619

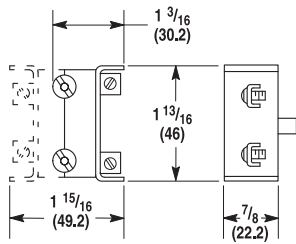
(1) For panel mounting only. Not for use with Allen-Bradley® enclosures.

Legend Plate Dimensions (Bulletin 800H Only)

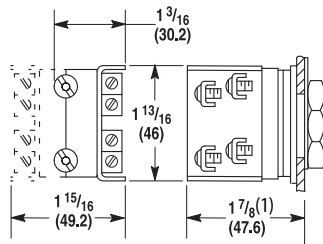


Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

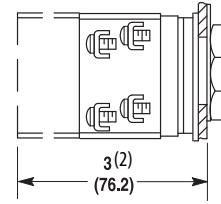
Contact Blocks (Bulletin 800T Only)



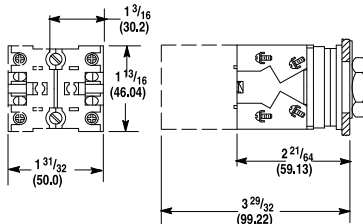
Mini Contact Block
7/8 (22.2) Deep



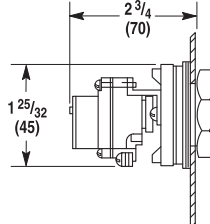
Shallow, PenTUFF™, and Logic Reed Contact Blocks
1-1/8 (28.6) Deep



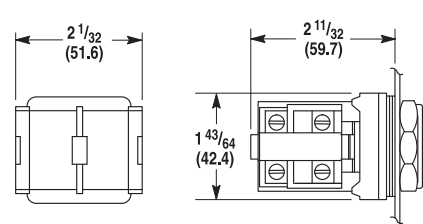
Tandem Mounting
(2 shallow contact blocks stacked)



Stackable Sealed Switch Block
1.58 (40.1) Deep



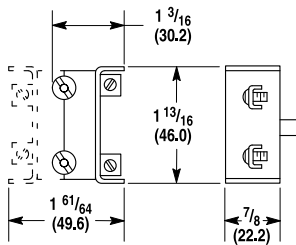
Time Delay Contact Block
(For Push Buttons Only)



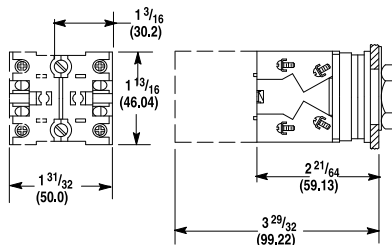
Snap Action Contact Block (For Push Button Only)

- 1) Dimension that is shown is for push buttons. Selector switch dimension is 2-1/32 in. (51.6 mm).
- 2) Dimension that is shown is for push buttons. Selector switch dimension is 3-5/32 in. (80.2 mm).

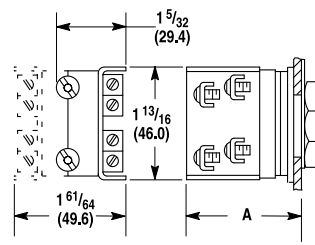
Contact Blocks (Bulletin 800H Only)



Mini Contact Block



Stackable Sealed Switch Block
1.58 (40.1) Deep

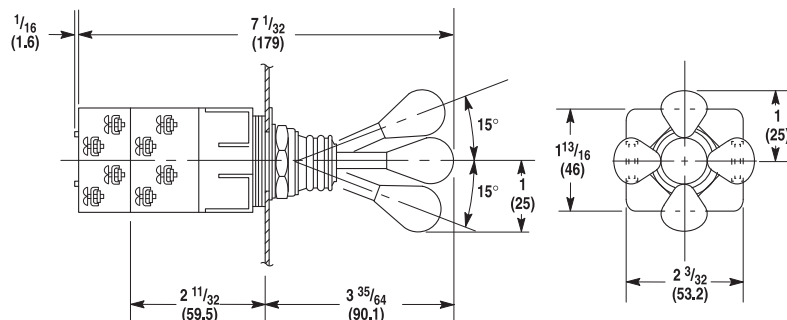


Shallow, PenTUFF, and Logic Reed Contact Blocks

| Dimension (1) | Momentary Push Button [in. (mm)] | Maintained Push Button [in. (mm)] | Selector Switch [in. (mm)] |
|---------------|----------------------------------|-----------------------------------|----------------------------|
| A | 2 (50.8) | 2 (50.8) | 1-29/32 (48.4) |

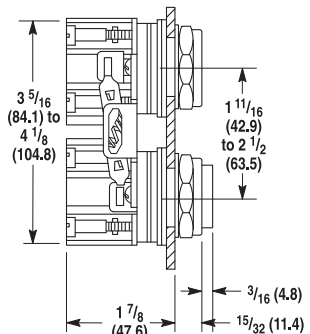
(1) Operator Extension Behind Panel – When mounted with thrust washer, trim washer, or notched legend plate and correct number of rubber washers.

Push Buttons and Switches (Bulletin 800T Only)



2-3-4 Way Switch

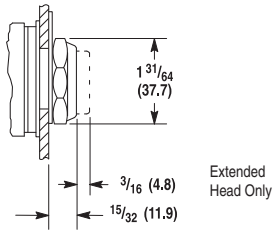
Shipping Weight with Two Contact Blocks 6 oz (0.17 kg), with 4 Contact Blocks 8-1/2 oz (0.24 kg)



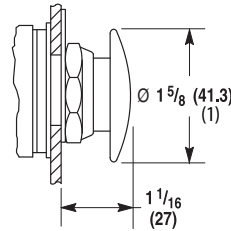
Mechanically Interlocked Maintained Contact Push Button
Shipping Weight 1 lb (0.45 kg)

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

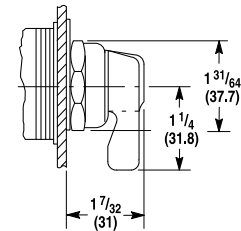
Push Buttons and Pilot Lights



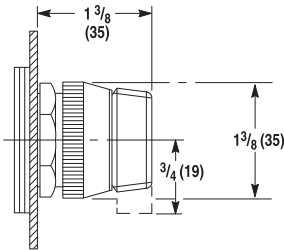
Flush and Extended Head Push Button
Shipping Weight 5-1/2 oz (0.15 kg)



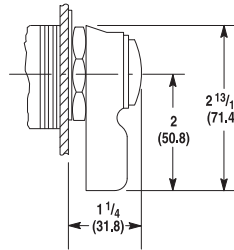
Mushroom Head Push Button
Shipping Weight 7-1/2 oz (0.21 kg)



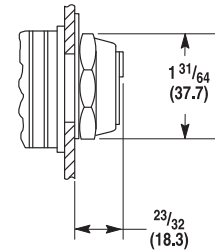
Non-illuminated Knob Lever and Standard Knob Selector Switch
Shipping Weight 6 oz (0.17 kg)



Illuminated Knob Lever and Standard Knob Selector Switch
Shipping Weight 6 oz (0.17 kg)



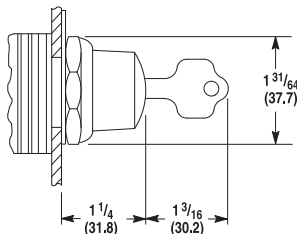
Wing Lever Selector Switch
Shipping Weight 8 oz (0.22 kg)



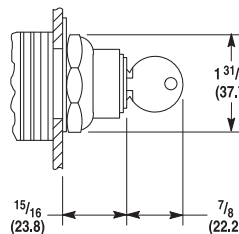
Coin Slot Selector Switch
Shipping Weight 6 oz (0.17 kg)

(1) Except jumbo, which is 2-1/4 (57.2).

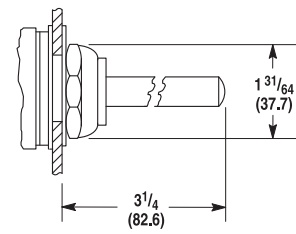
Operator Extension in Front of Panel (Bulletin 800T Only)



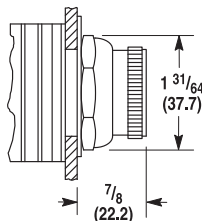
Key Operated Selector Switch
Shipping Weight 12 oz (0.34 kg)



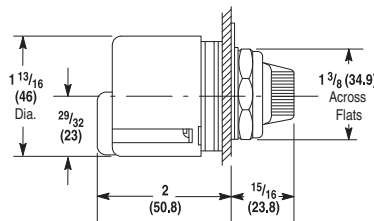
Push Button with Cylinder Lock
Shipping Weight 12 oz (0.34 kg)



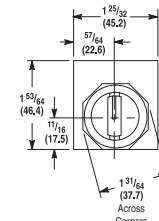
Wobble Stick
Shipping Weight 9 oz (0.25 kg)



Selector Push Button
Shipping Weight 6 oz (0.17 kg)

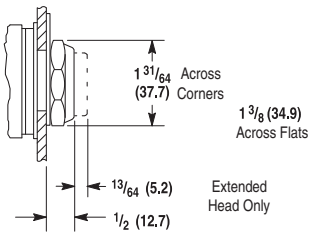


Type J Potentiometer Unit
Shipping Weight 4 oz (0.11 kg)

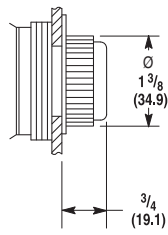


Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

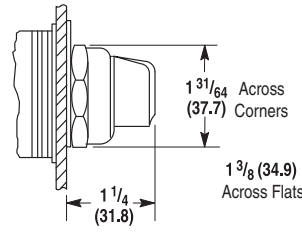
Push Buttons and Switches (Bulletin 800H Only)



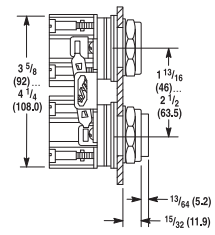
Bootless Flush and Extended Head Momentary Contact Push Button
Shipping Weight: 5-1/2 oz (0.16 kg)



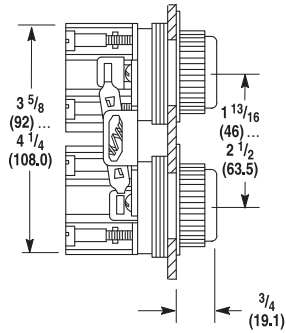
Booted Flush and Extended Head Momentary Contact Push Button
Shipping Weight: 5-1/2 oz (0.16 kg)



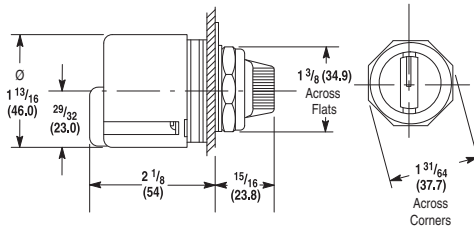
Standard Knob Selector Switch Non-illuminated
Shipping Weight: 6 oz (0.17 kg)



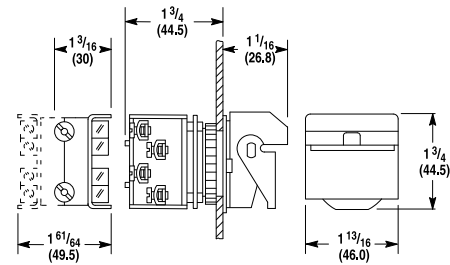
Bootless Maintained Contact Push Buttons



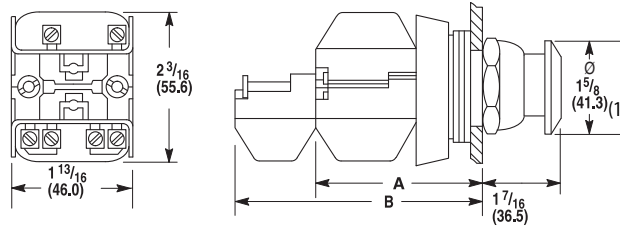
Booted Maintained Contact Push Buttons
Shipping Weight: 1 lb (0.45 kg)



Type J Potentiometer Unit
Shipping Weight: 7 oz (0.20 kg)



Type 4 Flip Lever
Shipping Weight: 8 oz (0.14 kg)



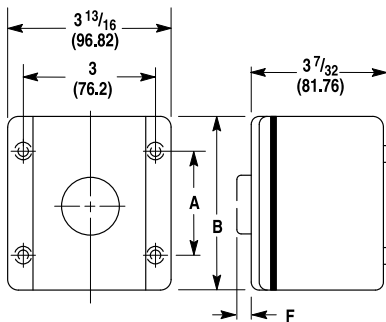
Mushroom Head – Maintained and Momentary

(1) Jumbo versions are 2-1/4 (57.2).

Non-illuminated Mushroom and Push-pull Push Buttons

| Cat. No. Suffix | Description | Dimensions [in. (mm)] | Shipping Weights [oz (kg)] |
|-----------------|----------------------------------------|-----------------------|----------------------------|
| D4 | One shallow block | A 2-1/32 (51.6) | 5 (0.14) |
| A1, A5, and A7 | Two shallow blocks | A 2-1/32 (51.6) | 6 (0.17) |
| B6 | Two shallow blocks and two mini blocks | B 2-7/8 (73.0) | 8 (0.22) |

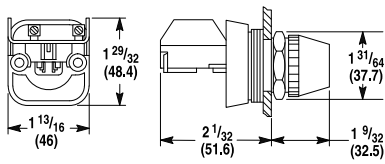
Break-glass Station



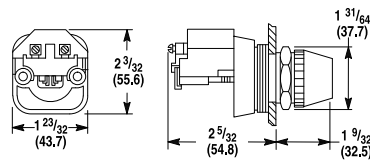
A = 2 3/4 (69.85)
B = 4 3/16 (106.38)
F = 9/16 (14.28)

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

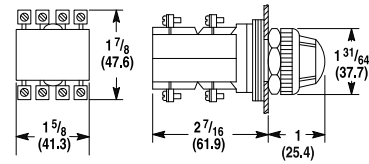
Pilot Light and Illuminated Devices (Bulletin 800T Only)



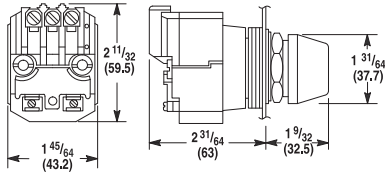
Full-voltage, Neon, and Dual-input Pilot Light
Shipping Weight 5 oz (0.14 kg)



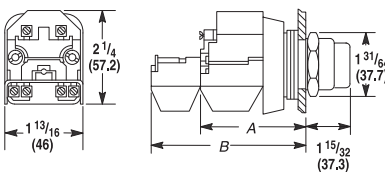
Transformer Type Pilot Light
Shipping Weight 8 oz (0.22 kg)



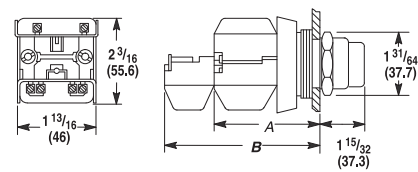
Cluster Pilot Light
Shipping Weight 12 oz (0.34 kg)



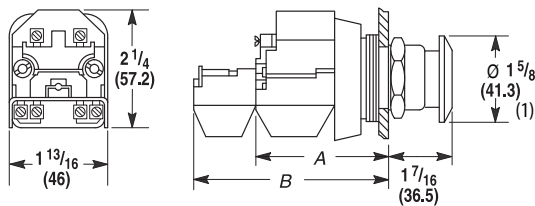
Dual-input Transformer
Type Pilot Light



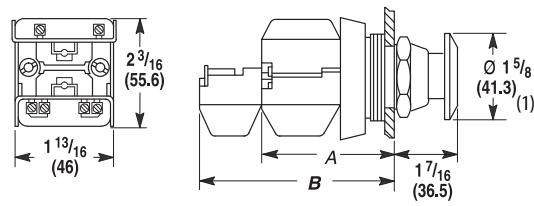
Transformer Type
(Push-to-test Pilot Light and Illuminated Push Button)



Full-voltage, Neon, and Dual-input Type
(Push-to-test Pilot Light and Illuminated Push Button)



Push-pull and Twist or Pull Release Units
(Transformer Type Illuminated)



Push-pull and Twist or Pull Release Units
(Full-voltage, Neon, and Dual-input Illuminated and All Non-illuminated)

(1) Jumbo mushroom versions are 2-1/4 in. (57.2 mm) diameter.

| Push-to-test Pilot Lights Illuminated Push Buttons and Illuminated Push-pull Buttons | | | | | | | Non-illuminated Push-pull Buttons | | | | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------|-------------------|---------------------------|-----------|-----------------|-----------------------------------|------------------|------------------------------------------------|---|---------------|-----------------|
| Cat. No. Suffix | Description | Transformer Type | | Full-voltage or Neon Type | | Cat. No. Suffix | Description | Transformer Type | | | | |
| | | Dim. | Ship. Wt. | Dim. | Ship. Wt. | | | Dim. | Ship. Wt. | | | |
| D4 | Transformer or Terminal Module and One Shallow Contact Block | A | 2-5/32 (54.8) (1) | 9 oz. (0.25 kg) | A | 2-1/32 (51.6) | 7 oz. (0.25 kg) | D4 | One Shallow Contact Block | A | 2-1/32 (51.6) | 5 oz. (0.14 kg) |
| A1 and A7 | Transformer or Terminal Module and One Shallow Block and One Mini Contact Block | B | 2-7/8 (73) | 10 oz. (0.28 kg) | B | 2-7/8 (73) | 8 oz. (0.22 kg) | A4, A5, and A7 | Two Shallow Contact Blocks | A | 2-1/32 (51.6) | 6 oz. (0.17 kg) |
| | | | | | | | | B6 | Two Shallow Blocks and Two Mini Contact Blocks | B | 2-7/8 (73) | 8 oz. (0.22 kg) |

(1) Dual-input type pilot light dimension is 2-13/32 in. (61.1 mm).

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Push-to-test Pilot Light and Illuminated Devices (Bulletin 800H Only)

Figure 3 - Transformer, Full Voltage, and Dual-input Diode Type

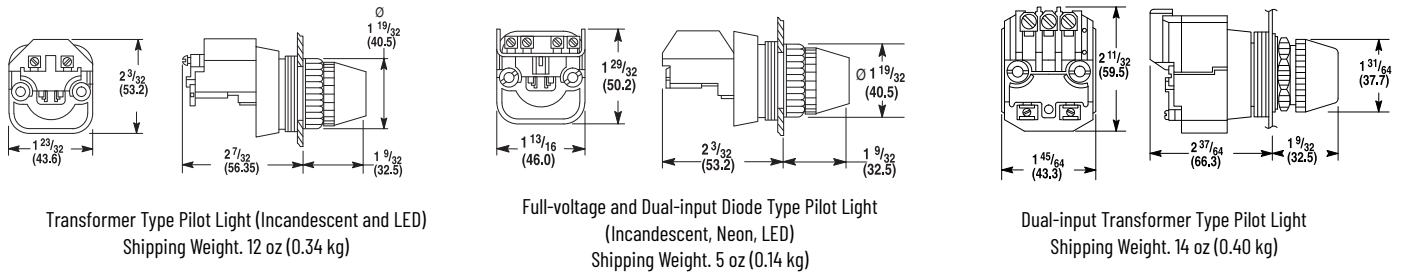
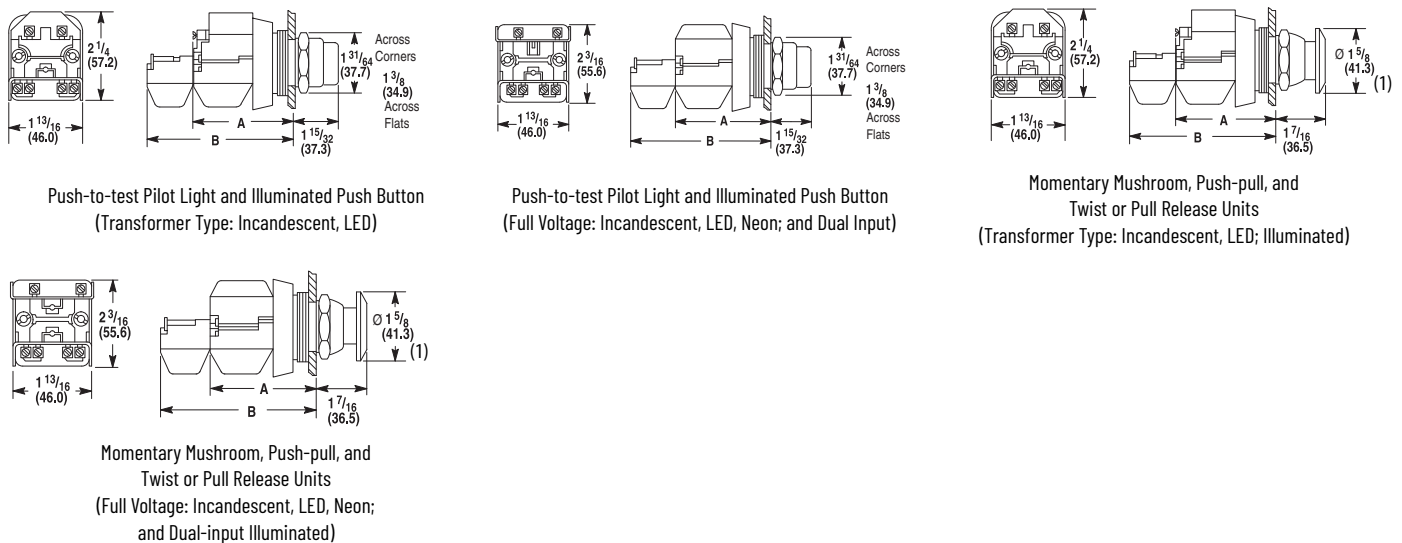


Figure 4 - Push-to-test Pilot Lights – Illuminated Push Buttons, Illuminated Push-pull and Twist, or Pull Release Push Buttons



(1) Jumbo mushroom versions are 2-1/4 in. (57.2 mm) diameter.

Push-to-test Pilot Lights Illuminated Push Buttons, Illuminated Push-pull and Twist, or Pull Release Push Buttons

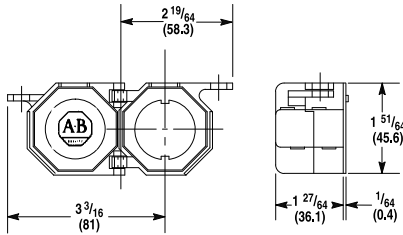
| Cat. No. Suffix | Description | Transformer Type | | Full-voltage or Neon Type | | |
|-----------------|------------------------------------------------------------------------------|------------------|------------------------------|---------------------------|------------------------------|-----------------|
| | | Dimension | Shipping Weight | Dimension | Shipping Weight | |
| D4 | Transformer or Terminal Module and One Shallow Contact Block | A | 2-5/32 (54.8) ⁽¹⁾ | A | 2-1/32 (51.6) ⁽²⁾ | 7 oz. (0.20 kg) |
| A1 and A7 | Transformer or Terminal Module, One Shallow Block and One Mini Contact Block | B | 2-7/8 (73) | B | 2-7/8 (73) | 8 oz. (0.22 kg) |

(1) Dual-input type pilot light dimension is 2-13/32 in. (61.1 mm).

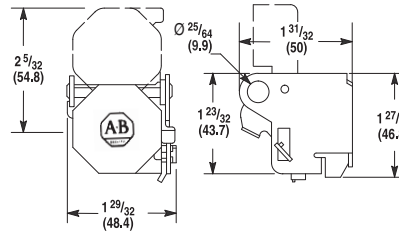
(2) Dual-input type pilot light dimension is 2-9/32 in. (57.9 mm).

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

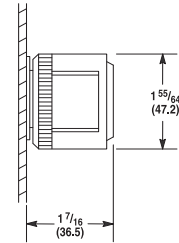
Accessories



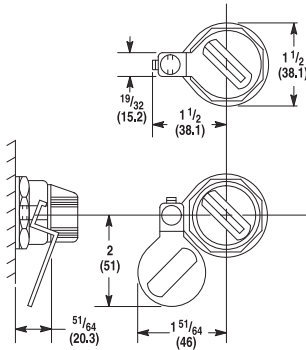
Push Button Padlocking Cover
(not for use with Jumbo Mushroom Head devices)
Shipping Weight 1 oz (0.03 kg)



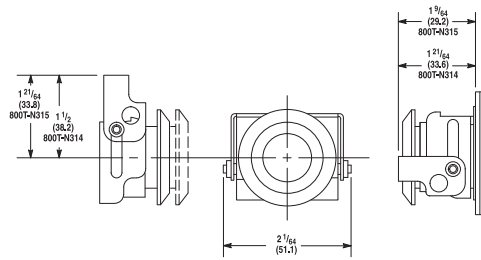
Selector Switch and Potentiometer
Unit Padlocking Cover



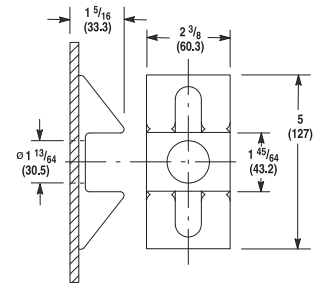
Protective Ring and
Push-pull Illuminated
or Non-illuminated Operators



Selector Switch Padlocking Attachment

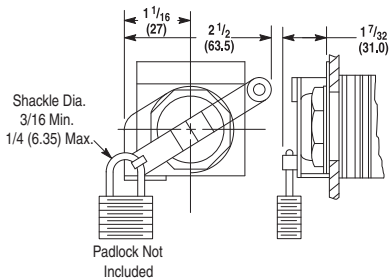


Push-pull Padlocking Attachment and
Metal Mushroom Push Button Padlocking Attachment

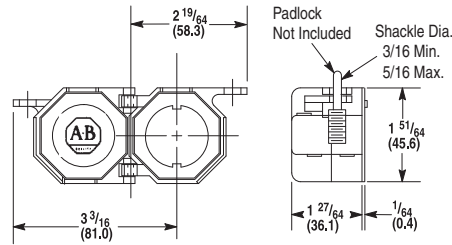


Ramp Guard for Push-pull Illuminated or
Non-illuminated Operators

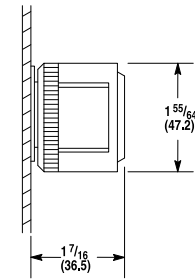
Accessories (Bulletin 800H Only)



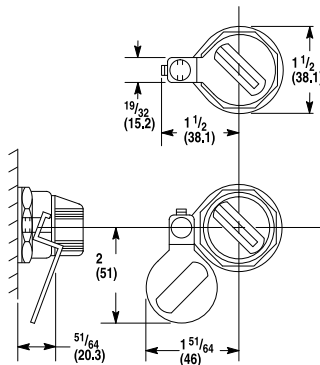
Locking Attachment for Extended,
Non-illuminated Push Buttons



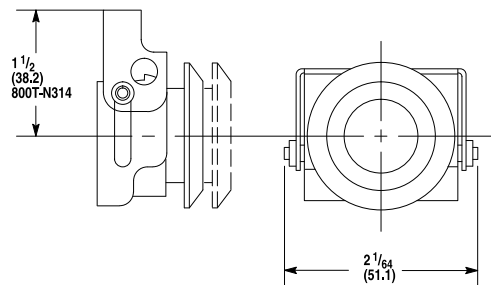
800H-N140 Locking Cover for 2-position Non-illuminated Maintained
Twist or Pull Release and Standard Knob Selector Switch
(1-5/8 (41.3) Mushroom Head only)



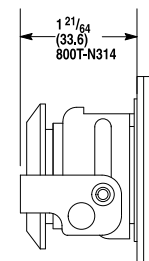
Protective Ring for 2-position
Push-pull/Twist Illuminated
or Non-illuminated Operators



Non-illuminated Selector Switch
Padlocking Attachment

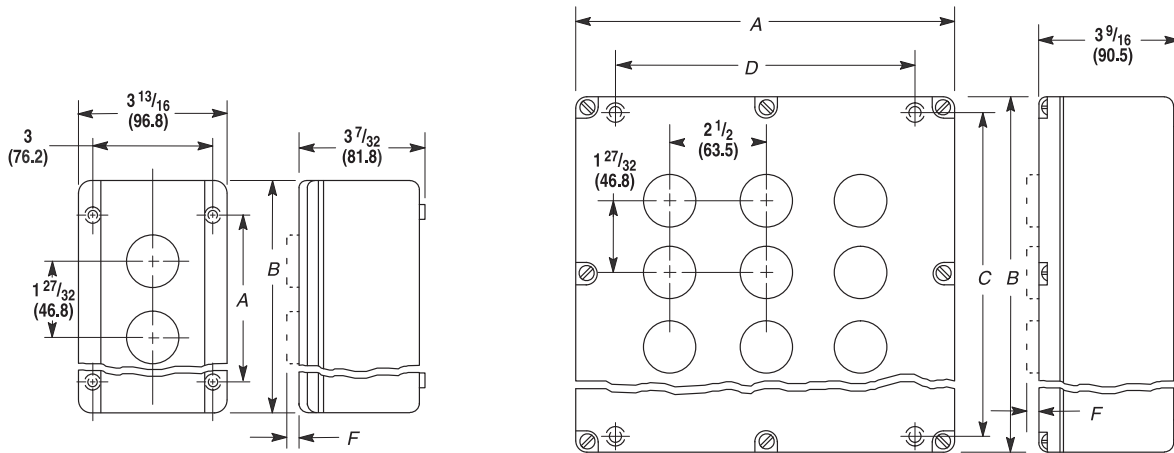


Push-pull/Twist Padlocking Attachment



Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Die Cast Enclosures (Bulletin 800T Only)



| Enclosure Dimensions (1) | | | | | |
|--------------------------|-------------------|------------------|-------------------|------------------|-------------------|
| Dim. | No. of Units | | | | |
| | 1 | 2 | 3 | 4 | 6 |
| A | 2-3/4 (69.9) | 4-1/2 (114.3) | 6-1/4 (158.8) | 8 (203.2) | 12-1/8 (308) |
| B | 4-3/16 (106.4) | 5-7/8 (144.2) | 7-9/16 (192.1) | 9-1/2 (241.3) | 13-1/2 (342.4) |

| Enclosure Dimensions (2) | | | | |
|--------------------------|------------------|------------------|-------------------|-------------------|
| Dim. | No. of Units | | | |
| | 6 | 9 | 12 | 16 |
| A | 7-1/4 (184.2) | 9-3/4 (247.7) | 9-3/4 (247.7) | 12-1/2 (317.5) |
| B | 9 (228.6) | 9 (228.6) | 11 (279.4) | 11 (279.4) |
| C | 8-1/4 (209.6) | 8-1/4 (209.6) | 10-1/8 (257.2) | 10-1/8 (257.2) |
| D | 5-3/8 (136.5) | 7-7/8 (200) | 7-7/8 (200) | 10-5/8 (269.9) |

(1) Mounting holes (4) – Screw shaft 13/64 in. (5.16 mm) max diameter.
 (2) Mounting holes (4) – Screw shaft 7/32 in. (5.56 mm) max diameter.

Table 39 - F Dimension

| Type of Unit | | F Dimension |
|-------------------|----------------|---------------|
| Push Buttons | Flush Extended | 15/32 (11.9) |
| | Extended | 21/32 (16.7) |
| | Mushroom | 1 (25.4) |
| | Selector | 7/8 (22.2) |
| | Cylinder Lock | 1-13/16 (46) |
| Selector Switches | Standard | 1-7/32 (30.9) |
| | Cylinder Lock | 2-7/16 (61.9) |
| | Coin Slot | 3/4 (19.1) |
| Pilot Light | | 1-1/8 (28.6) |
| Potentiometers | | 1-1/16 (27) |

Table 40 - Conduit Openings

| General Class | Description | No. of Units (1) | | | | | | |
|---------------------------|-------------|----------------------|------------------------|------------------------|------------------------|----------------------------|----|----|
| | | 1...4 | 6 | 9 | 12 | 16 | 20 | 25 |
| Surface-mounted enclosure | Die cast | 3/4 in. 14 N.P.T. | 1 in. 11-1/2 N.P.T. | 1 in. 11-1/2 N.P.T. | 1 in. 11-1/2 N.P.T. | 1-1/2 in. 11-1/2 N.P.T. | – | – |

(1) Number of units that can be mounted in the enclosure.

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Enclosures (Bulletin 800T Only)

Pendant Stations

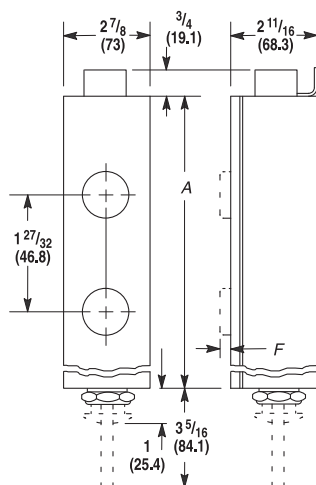


Table 41 - Dimension A

| No. of Units | Dimension A |
|--------------|------------------|
| 2 | 5-13/16 (147.6) |
| 3 | 7-21/32 (194.5) |
| 4 | 9-1/2 (241.3) |
| 5 | 11-11/32 (288.1) |
| 6 | 13-3/16 (335) |

Table 42 - Dimension F

| Type of Unit | | Dimension F |
|-------------------|----------------|---------------|
| Push buttons | Flush extended | 15/32 (11.9) |
| | Extended | 21/32 (16.7) |
| | Mushroom | 1 (25.4) |
| | Selector | 7/8 (22.2) |
| | Cylinder lock | 1-13/16 (46) |
| Selector switches | Standard | 1-7/32 (30.9) |
| | Cylinder lock | 2-7/16 (61.9) |
| | Coin slot | 3/4 (19.1) |
| Pilot light | | 1-1/8 (28.6) |
| Potentiometers | | 1-1/16 (27) |

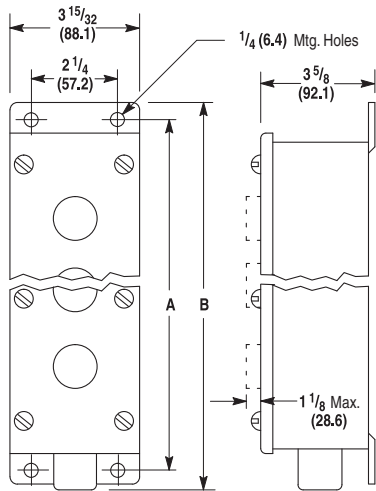
Table 43 - Conduit Openings

| General Class | Description | Number of Units ⁽¹⁾ | |
|------------------------|-------------------|--------------------------------|--------------------------|
| | | 2...5 | 6 |
| Pendant-type enclosure | Opening in bottom | 1 (25.4) conduit hub | 1-1/4 (31.8) conduit hub |
| | Opening in cover | 1 (25.4) conduit hub | 1-1/4 (31.8) conduit hub |

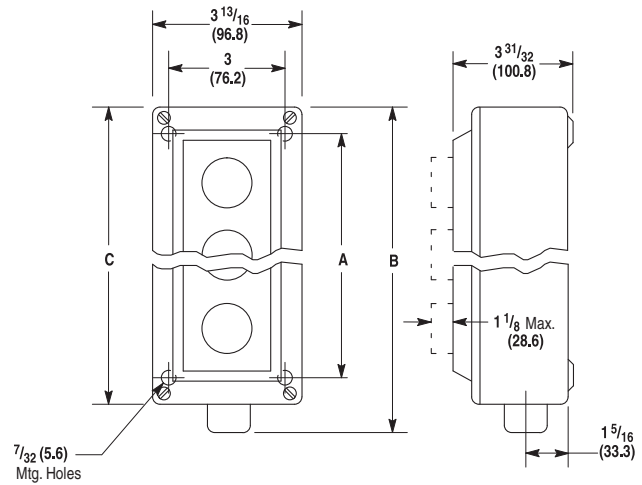
(1) Number of units that can be mounted in the enclosure.

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Enclosures (Bulletin 800H Only)



Type 4/4X/13 Stainless Steel
Watertight, Oiltight, Corrosion-resistant Enclosure



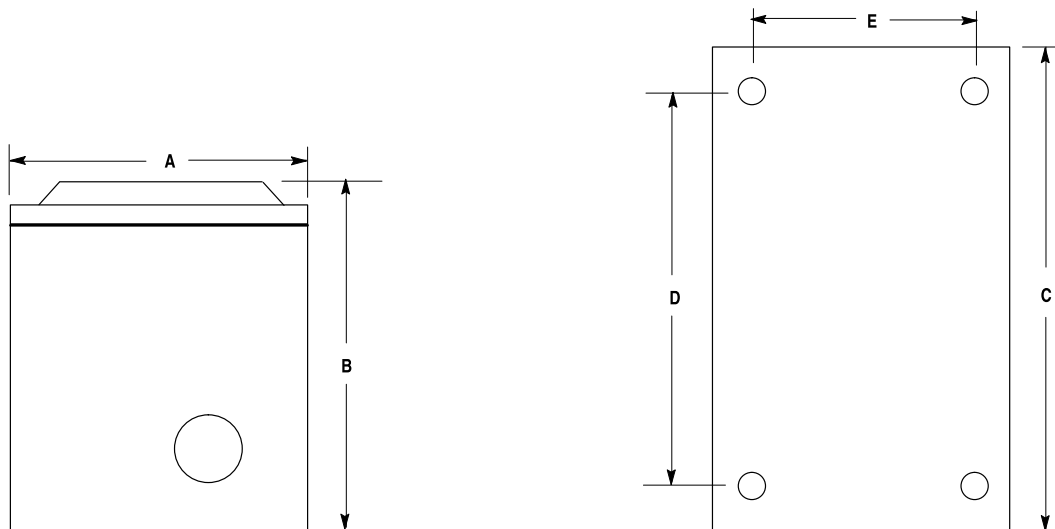
Type 4/4X/13 Rosite Glass Polyester
Watertight, Oiltight, Corrosion-resistant Enclosure

| Dimension | Type 4/4X/13 Stainless Steel | | | | | | | |
|---------------------------------------|------------------------------|------------------|--------------------|---------------------|---------------------|-------------------|-------------------|---------------------|
| | Number of Units | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | 5-5/32 (131) | 7 (177.8) | 8-27/32 (224.6) | 10-11/16 (271.5) | 12-17/32 (318.3) | 14-3/8 (365.1) | 16-7/32 (412) | 18-1/16 (458.8) |
| B | 6-13/32 (162.7) | 8-1/4 (209.6) | 10-1/8 (257.2) | 11-31/32 (304) | 14-1/32 (356.4) | 15-7/8 (403.2) | 17-3/4 (450.8) | 19-19/32 (497.7) |
| C | - | | | | - | | | |
| Conduit knockout size | - | | | | - | | | |
| Pipe tap size | 3/4 (19.1) | | | | 1 (25.4) | | | |
| Approximate shipping weight [lb (kg)] | 2-3/4 (1.3) | 3-3/4 (1.7) | 4-3/4 (2.2) | 5-3/4 (2.6) | 6-3/4 (3.1) | 7-3/4 (3.5) | 8-3/4 (4) | 9-3/4 (4.4) |

| Dimension | Type 4/4X/13 Rosite | | | | | |
|---------------------------------------|---------------------|-------------------|--------------------|---------------------|-------------------|-------------------|
| | Number of Units | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| A | 4-1/2 (114.3) | 4-1/2 (114.3) | 6-1/4 (158.8) | 8 (203.2) | 12-1/8 (308) | 12-1/8 (308) |
| B | 7-1/32 (178.6) | 7-1/32 (178.6) | 8-23/32 (221.5) | 10-21/32 (270.7) | 14-7/8 (377.8) | 14-7/8 (377.8) |
| C | 5-7/8 (149.2) | 5-7/8 (149.2) | 7-9/16 (192) | 9-1/2 (241.8) | 13-1/2 (342.9) | 13-1/2 (342.9) |
| Conduit knockout size | - | | | - | | |
| Pipe tap size | 3/4 (19.1) | | | 1 (25.4) | | |
| Approximate shipping weight [lb (kg)] | 2 (0.9) | 2 (0.9) | 2-1/2 (1.1) | 3 (1.4) | 4 (1.8) | 4 (1.8) |

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Enclosures (Bulletin 800H Only), Continued



| Dimension | Fiberglass Type 4/4X/12/13 | | |
|---------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| | Number of Units | | |
| | 1 | 2 | 3 |
| A x B x C | 4-1/2 x 5-3/16 x 6 (114.3 x 131.8 x 152.4) | 4-1/2 x 5-3/16 x 8 (114.3 x 131.8 x 203.2) | 6-1/2 x 5-7/16 x 8 (165.1 x 138.1 x 203.2) |
| D x E | 4-3/4 x 2 (120.7 x 50.8) | 6-3/4 x 2 (171.5 x 50.8) | 6-3/4 x 4 (171.5 x 101.6) |
| Conduit Knockout Size | 3/4 (19.1) | 1 (25.4) | 1 (25.4) |
| Approximate Shipping Weight [lb (kg)] | 2 (0.9) | 1/4 (1.0) | 3 (1.4) |

General-purpose Enclosures



| | |
|-----------------------------|---------------------------------------------------------------------------------------------|
| Attribute | 800H-1HZ4C (1-hole), 800H-2HZ4C (2-hole), 800H-3HZ4C (3-hole), 800H-4HZ4C (4-hole) |
| Description | Push button enclosure |
| Features | Designed to house 30.5 mm (Bulletin 800H) push buttons (available in gray or yellow colors) |
| Degree of Protection | Type 1, 4, 4X, 12, 13 IP66 Indoor/outdoor |
| Storage Temperature Range | -40...+75 °C (-40...+158 °F) |
| Operating Temperature Range | -40...+55 °C (-40...+131 °F) |
| Material | |
| Enclosure | Enclosure thermoplastic polyester blend, UL94-5VA |
| Gasket | Foam-in-place polyetherane |
| Standards | UL 508A and CSA C22.2, No. 14 |
| Certifications | c-UL-us, CE |

Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

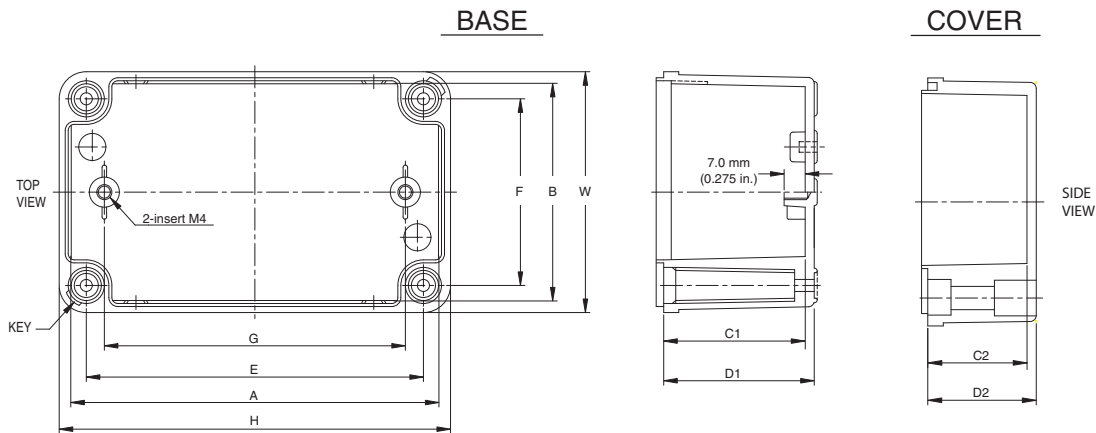
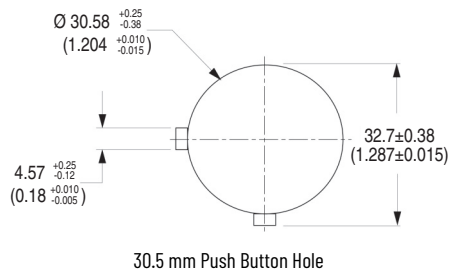


Table 44 - General-purpose Enclosure Dimensions [in. (mm)]

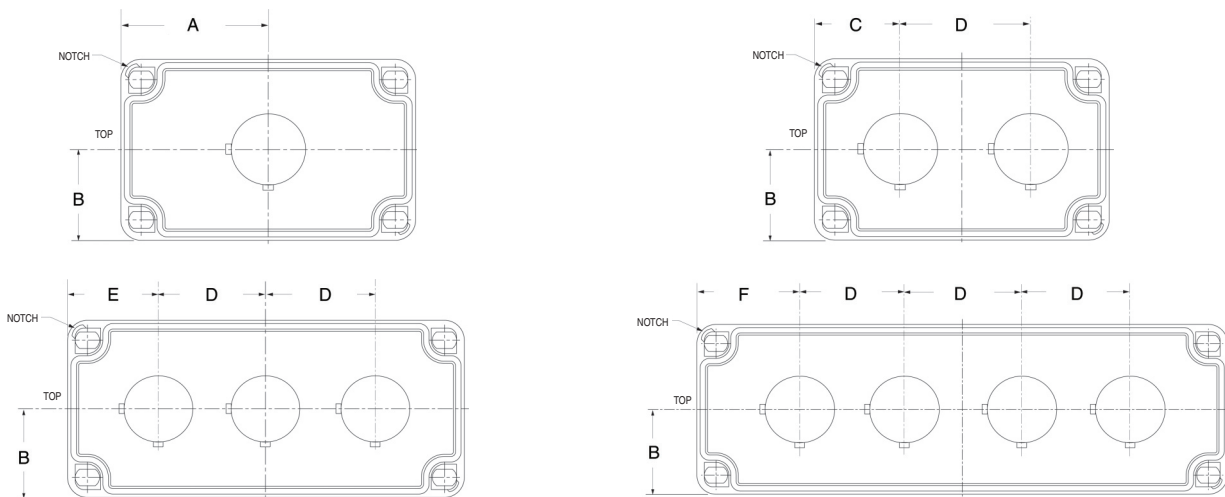
| Cat. No. | Type | Overall Dimension | | | | Inside Dimension | | | | Enclosure Mounting Dimension | | Mounting Plate Mounting Dimension |
|--------------|--------|-------------------|-----------|-----------|-----------|------------------|-----------|-------------|-------------|------------------------------|-----------|-----------------------------------|
| | | H | W | D1 | D2 | A | B | C1 | C2 | E | F | G |
| 800H-1HZ4... | 1-hole | 110 (4.33) | 80 (3.15) | 50 (1.97) | 20 (0.79) | 104 (4.09) | 74 (2.91) | 46.5 (1.83) | 16.5 (0.65) | 92 (3.62) | 62 (2.44) | 80 (3.15) |
| 800H-2HZ4... | 2-hole | 130 (5.12) | 80 (3.15) | 50 (1.97) | 35 (1.38) | 120 (4.72) | 70 (2.76) | 46.5 (1.83) | 31.5 (1.24) | 112 (4.41) | 62 (2.44) | 100 (3.94) |
| 800H-3HZ4... | 3-hole | 180 (7.09) | 80 (3.15) | 50 (1.97) | 35 (1.38) | 170 (6.69) | 70 (2.76) | 46.5 (1.83) | 31.5 (1.24) | 162 (6.38) | 62 (2.44) | 150 (5.91) |
| 800H-4HZ4... | 4-hole | 250 (9.84) | 80 (3.15) | 50 (1.97) | 35 (1.38) | 240 (9.45) | 70 (2.76) | 46.5 (1.83) | 31.5 (1.24) | 232 (9.13) | 62 (2.44) | 220 (8.66) |

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Push Button Hole



Push Button Hole Spacing



| Cat. No. | Type | A | B | C | D | E | F |
|------------|--------|---------------------------|------------------------|-----------------------------|------------------------------|-------------------------------------------|-----------------------------|
| 800H-1HZ4C | 1-hole | 55±.216 (2.165±0.0085) | 40±0.5 (1.57±0.020) | — | 46.8±0.191 (1.843±0.0075) | — | — |
| 800H-2HZ4C | 2-hole | — | | 41.6±0.175 (1.64±0.0069) | | — | — |
| 800H-3HZ4C | 3-hole | — | | — | | 43.2 +0.32/-0.18 (1.7 +0.0126/-0.0071) | — |
| 800H-4HZ4C | 4-hole | — | | — | | — | 54.8±0.216 (2.16±0.0085) |

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

| Resource | Description |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 800T/H 30 mm Push Buttons Brochure, publication 800T-BR012 | Provides information regarding the design and selection of 800T/H push buttons. |
| EtherNet/IP Network Devices User Manual, ENET-UM006 | Describes how to configure and use EtherNet/IP™ devices to communicate on the EtherNet/IP network. |
| Ethernet Reference Manual, ENET-RM002 | Describes basic Ethernet concepts, infrastructure components, and infrastructure features. |
| System Security Design Guidelines Reference Manual, SECURE-RM001 | Provides guidance on how to conduct security assessments, implement Rockwell Automation products in a secure system, harden the control system, manage user access, and dispose of equipment. |
| Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication IC-TD002 | Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies. |
| Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-1.1 | Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components. |
| Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1 | Provides general guidelines for installing a Rockwell Automation industrial system. |
| Product Certifications website, rok.auto/certifications . | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at rok.auto/literature.

Rockwell Automation Support

Use these resources to access support information.

| | | |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Technical Support Center | Find help with how-to videos, FAQs, chat, user forums, and product notification updates. | rok.auto/support |
| Knowledgebase | Access Knowledgebase articles. | rok.auto/knowledgebase |
| Local Technical Support Phone Numbers | Locate the telephone number for your country. | rok.auto/phonesupport |
| Literature Library | Find installation instructions, manuals, brochures, and technical data publications. | rok.auto/literature |
| Product Compatibility and Download Center (PCDC) | Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes. | rok.auto/pcdc |

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