

TWTD Series – Full Size NEMA Pushbuttons



TWTD Series: Heavy duty switches built to last

Key features:

- Variety of button sizes up to 2 9/16" (65mm)
- Rugged construction includes chrome plated zinc locking ring die cast zinc mounting threads, screw mounted contact blocks
- LED or incandescent illumination
- Transformer or full voltage
- Transparent contact windows
- Slow make, double break self-cleaning contacts
- Modular construction for maximum flexibility
- Double nickel plated terminal screws
- Available assembled or as sub-components
- Type 4x and IP65 watertight/oiltight panel
- Large M3.5 screw terminals with captive sems plate

The rugged series of TWTD switches offers both variety and durability in an attractive design.

With button sizes up to 2 9/16" (65mm), chrome plated zinc locking rings, die cast zinc mounting threads, steel anti-rotation rings, and self cleaning contacts, the TWTDs are here to stay.

The TWTD series also offers either LED or incandescent illumination in full voltage and transformer models.

Transparent contact windows allow the viewing of IDEC's self cleaning slow-make/slow-break contacts.

Regardless of your switching needs, the TWTD series provides the kind of long lasting, industrial strength quality you've come to expect from IDEC.



Specifications

Conforming to Standards	EN60947-1, EN60947-5-1, VDE0660-200, UL508, CSA C22-2 No.14
Approvals	CSA: pushbuttons and selector switches: A600 pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V) UL: pushbuttons and selector switches: A600 pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V) TÜV: pushbuttons and selector switches: A600-P600 (NO, NC)/Q600 (NO-EM, NC-LB) pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V)
Operating Temperature	Operation: -25 to +50°C (without freezing) Storage: -40 to +70°C (without freezing)
Vibration Resistance	10 to 55Hz, 98m/sec ² (10g) conforming to IEC6068-2-6
Shock Resistance	980m/sec ² (100g) conforming to IEC6068-2-7
Electric Shock Protection	Class 0 conforming to IEC60536
Degree of Protection	IP65 (from front of the panel) (conforming to IEC60529) IP54 (key switches) Type 1, 2, 3, 3R, 3S, 4, 4X, 5, 12, 13 (conforming to NEMA ICS6-110)
Mechanical Life	Momentary pushbuttons: 5,000,000 (900 operations per hour) All other switches: 500,000
Pollution Degree (conforming to IEC60947-1)	3 for switches not using a transformer 2 for switches using a transformer

Mechanical-Electrical Specifications

Rated Operational Characteristics	AC-15: A600 or Ue = 250V, Ie = 3A (NO, NC, NO-EM, NC-LB) DC-13: P600 or Ue = 125V, Ie = 1.1A (NO, NC) DC-13: Q600 or Ue = 125V, Ie = 0.9A (NO-EM, NC-LB)
Rated Insulation Voltage	600V
Rated Switching Overvoltage	Less than 4kV, conforming to IEC60947-1
Rated Impulse Withstanding Voltage	4kV for contact circuit 2.5kV for lamp circuit
Rated Thermal Current	10 Amp
Minimum Switching Capacity	5 mA at 3V AC/DC
Contact Operation	Slow break NC or NO, self-cleaning
Operating Force	Flush and extended pushbuttons—with 1NO or 1NC contact: 6.2±2N (momentary), 7.0±2N (maintained) Additional contacts—1NO or 1NC: +3.2N (momentary), + 3.3N (maintained)
Terminal Referencing	Conforming to CENELEC EN50005
Recommended Terminal Torque	0.8 N m (7.1 in lb.)
External Short-Circuit Protection	10A 250V fuse conforming to IEC60269-1
Applicable Wire Size	Minimum 1 x 22 AWG, max. 2 x 14 AWG or 1 x 12 AWG
Contact Resistance	Initial contact resistance of 50mΩ or less
Contact Gap	4mm (NO and NC) 2mm (NO-EM and NC-LB)
Lamp Ratings	Incandescent: 1 W LEDs: 6V: 17mA, 12V: 11mA, 24V: 11mA, / 120, 240V: 10mA
Maximum Inrush Current	40 A (40 msec)
Contact Material	Silver

Contact Ratings

Contact Ratings by Utilization Category IEC 60947-5-1		AC-15 (A600)							
		DC-13 (P600)							
Contact Ratings by Utilization Category			24V	48V	50V	110V	220V	440V	
Operational Voltage	AC 50/60 Hz	AC-12 Control of resistive loads & solid state loads	10A	—	10A	10A	6A	2A	
		AC-15 Control of electromagnetic loads (> 72VA)	10A	—	7A	5A	3A	1A	
		DC	DC-12 Control of resistive loads & solid state loads	8A	5A	—	2.2A	1.1A	—
			DC-13 Control of electromagnets	5A	2A	—	1.1A	0.6A	—

Switches & Pilot Devices

Signaling Lights

Relays & Sockets

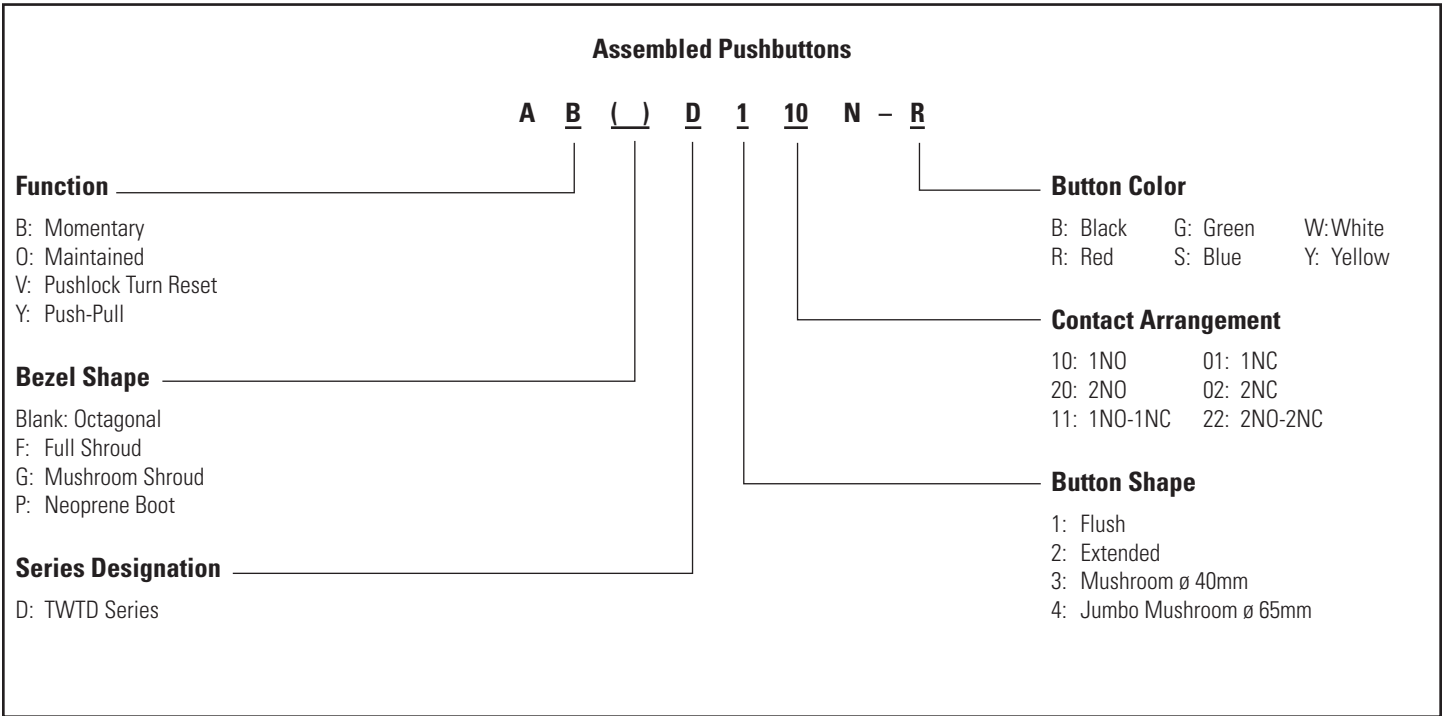
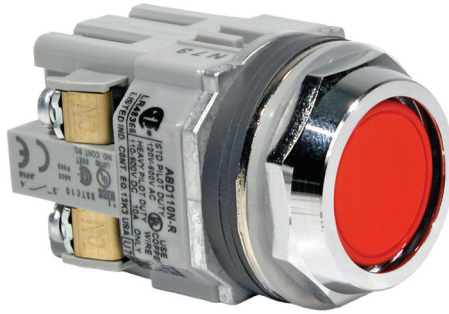
Timers

Contactors

Terminal Blocks

Circuit Breakers

Non-Illuminated Pushbuttons (Assembled)



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

Non-Illuminated Pushbuttons (Assembled)

Non-Illuminated Pushbuttons

Style	Contacts	Momentary	Maintained
Flush	1NO	ABD110N-①	AOD110N-①
	1NC	ABD101N-①	AOD101N-①
	1NO-1NC	ABD111N-①	AOD111N-①
	2NO	ABD120N-①	AOD120N-①
	2NC	ABD102N-①	AOD102N-①
Extended	1NO	ABD210N-①	AOD210N-①
	1NC	ABD201N-①	AOD201N-①
	1NO-1NC	ABD211N-①	AOD211N-①
	2NO	ABD220N-①	AOD220N-①
	2NC	ABD202N-①	AOD202N-①
Extended with Neoprene Boot*	1NO	ABPD210N-①	AOPD210N-①
	1NC	ABPD201N-①	AOPD201N-①
	1NO-1NC	ABPD211N-①	AOPD211N-①
	2NO	ABPD220N-①	AOPD220N-①
	2NC	ABPD202N-①	AOPD202N-①
Recessed	1NO	ABFD110N-①	AOFD110N-①
	1NC	ABFD101N-①	AOFD101N-①
	1NO-1NC	ABFD111N-①	AOFD111N-①
	2NO	ABFD120N-①	AOFD120N-①
	2NC	ABFD102N-①	AOFD102N-①
Extended with Full Shroud	1NO	ABFD210N-①	AOFD210N-①
	1NC	ABFD201N-①	AOFD201N-①
	1NO-1NC	ABFD211N-①	AOFD211N-①
	2NO	ABFD220N-①	AOFD220N-①
	2NC	ABFD202N-①	AOFD202N-①
ø 40mm Mushroom Head	1NO	ABD310N-①	AOD310N-①
	1NC	ABD301N-①	AOD301N-①
	1NO-1NC	ABD311N-①	AOD311N-①
	2NO	ABD320N-①	AOD320N-①
	2NC	ABD302N-①	AOD302N-①
ø 40mm Mushroom Head with Full Shroud	1NO	ABGD310N-①	AOGD310N-①
	1NC	ABGD301N-①	AOGD301N-①
	1NO-1NC	ABGD311N-①	AOGD311N-①
	2NO	ABGD320N-①	AOGD320N-①
	2NC	ABGD302N-①	AOGD302N-①
ø 65mm Jumbo Mushroom Head	1NO	ABD410N-①	AOD410N-①
	1NC	ABD401N-①	AOD401N-①
	1NO-1NC	ABD411N-①	AOD411N-①
	2NO	ABD420N-①	AOD420N-①
	2NC	ABD402N-①	AOD402N-①
ø 65mm Jumbo Mushroom Head with Shallow Shroud	1NO	ABGD410N-①	AOGD410N-①
	1NC	ABGD401N-①	AOGD401N-①
	1NO-1NC	ABGD411N-①	AOGD411N-①
	2NO	ABGD420N-①	AOGD420N-①
	2NC	ABGD402N-①	AOGD402N-①
ø 65mm Jumbo Mushroom Head With Deep Shroud	1NO	ABFD410N-①	AOFD410N-①
	1NC	ABFD401N-①	AOFD401N-①
	1NO-1NC	ABFD411N-①	AOFD411N-①
	2NO	ABFD420N-①	AOFD420N-①
	2NC	ABFD402N-①	AOFD402N-①

① Button Color Codes

Color	Code
Black	B
Green	G
Red	R
Blue	S
Yellow	Y
White	W



- 65mm Jumbo mushroom not available in white.
- Neoprene boot is not available in blue or white.



- In place of ①, specify the Button Color Code.
- For sub-assembly part numbers, see next page.
- *Neoprene boot available only in Black (B), Green (G), Red (R) and Yellow (Y).

Non-Illuminated Pushbuttons (Sub-Assembled)



Operators

Style	Part Number	
	Momentary	Maintained
Flush/Extended	ABD-100	AOD-100
Extended with Full Shroud	ABFD-200	AOFD-200
ø 40mm Mushroom/ø 65mm Jumbo Mushroom	ABD-300	AOD-300
ø 40mm Mushroom with Full Shroud	ABGD-300	AOGD-300
ø 65mm Jumbo Mushroom with Shallow Shroud	ABGD-400	AOGD-400
ø 65mm Jumbo Mushroom with Deep Shroud	ABFD-400	AOFD-400

Buttons and Lenses

Style	Part Number
Flush	ABD1BN-⓪
Extended	ABD2BN-⓪
ø 40mm Mushroom	ABD3BN-⓪
ø 65mm Jumbo Mushroom	ABD4BN-⓪



In place of ⓪, specify the Button Color Code. (See table previous page)

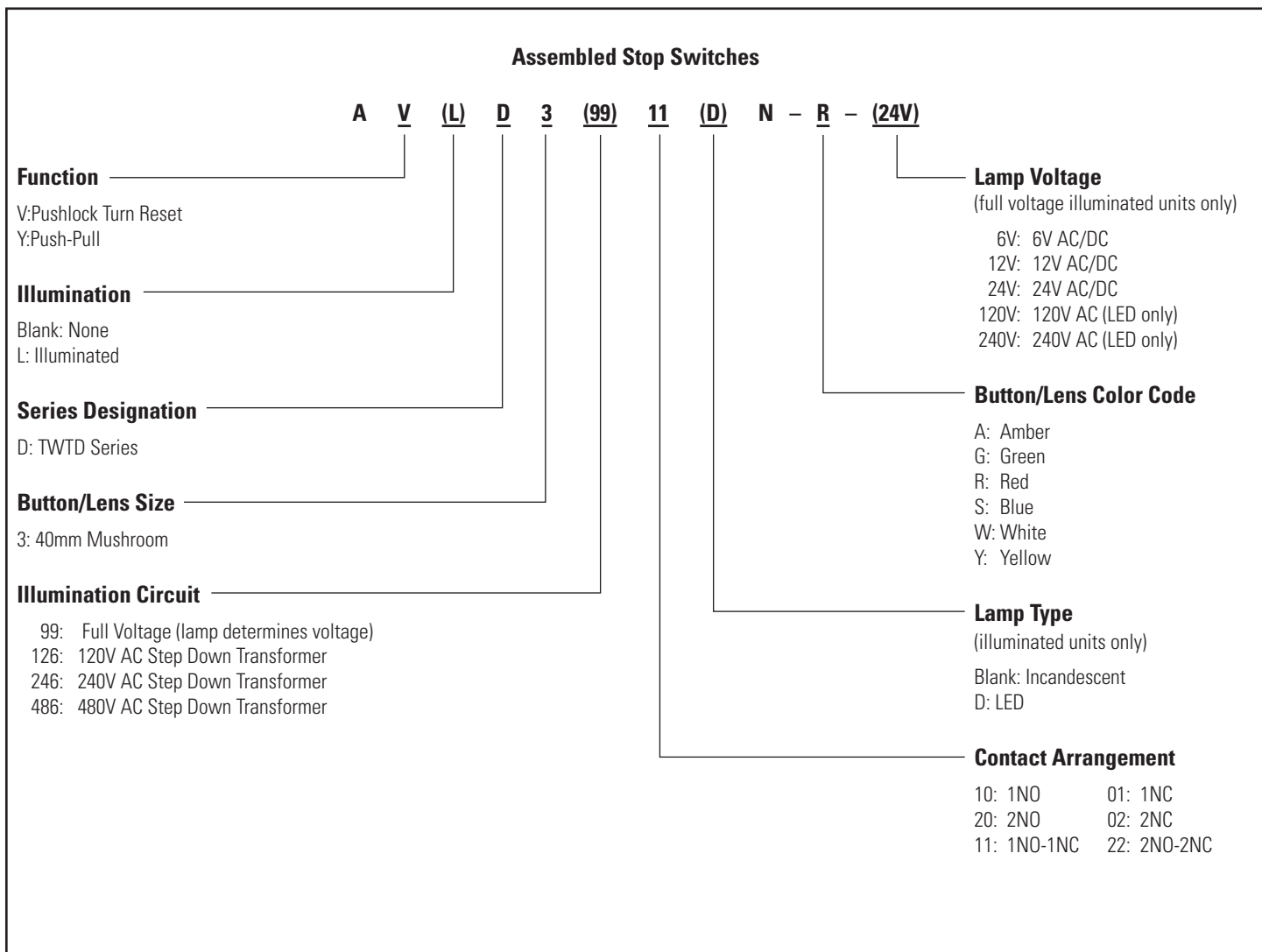
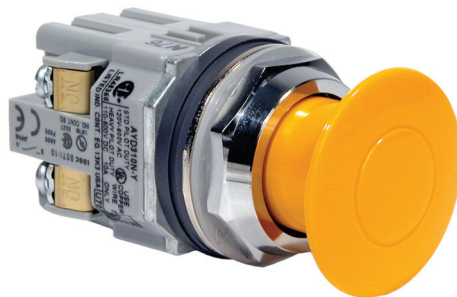
Contact Blocks

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



- Dummy blocks (no contacts) are used with an odd number of contact blocks.
- Combining BST-010S and BST-001S result in overlapping contacts (remain on, or closed, when switch is moved between two positions).




Stop Switches (Assembled)



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

Stop Switches (Assembled)

Stop Switches

Style	Contacts	Part Number
ø 40mm Pushlock Turn Reset  Non-Illuminated	1NO 1NC 1NO-1NC 2NO 2NC	AVD310N-R* AVD301N-R* AVD311N-R* AVD320N-R* AVD302N-R*
ø 40mm Illuminated Pushlock Turn Reset  Full Voltage	1NO-1NC 2NO 2NC	AVLD39911ⓈN-R-Ⓢ* AVLD39920ⓈN-R-Ⓢ* AVLD39902ⓈN-R-Ⓢ*
ø 40mm Push-Pull  Non-Illuminated	1NO 1NC 1NO-1NC 2NO 2NC	AYD310N-Ⓢ AYD301N-Ⓢ AYD311N-Ⓢ AYD320N-Ⓢ AYD302N-Ⓢ
ø 40mm Push-Pull  Full Voltage	1NO-1NC 2NO 2NC	AYLD39911ⓈN-Ⓢ-Ⓢ** AYLD39920ⓈN-Ⓢ-Ⓢ** AYLD39902ⓈN-Ⓢ-Ⓢ**
ø 40mm Push-Pull Transformer 	1NO-1NC 2NO 2NC	AYLD3 Ⓢ 11ⓈN-R* AYLD3 Ⓢ 20ⓈN-R* AYLD3 Ⓢ 02ⓈN-R*
ø 40mm Momentary Push-Pull (3-position)  Full Voltage	1NO-1NC 1NC-1LB†	AYLD229911ⓈN-Ⓢ-Ⓢ -TK962 AYLD229902SⓈN-Ⓢ-Ⓢ-TK962
ø 40mm Momentary Push-Pull (3-position) Transformer 	1NO-1NC 1NC-1LB†	AYLD22 Ⓢ 11ⓈN-Ⓢ-TK962 AYLD22 Ⓢ 02SⓈN-Ⓢ-TK962

Unibody E-Stops

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

3 Position Push-Pull†

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

① Button Color Codes

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

Ⓢ LED/Lens Color Codes

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

③ Full Voltage Codes

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

Ⓢ Transformer Voltage Codes

Voltage	Code
120VAC	126
240VAC	246
480VAC	486



Transformers step down to 6V.

⑤ Lamp Type Codes

Lamp	Code
Incandescent	Blank
LED	D

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

Stop Switches (Sub-Assembled)






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

Operators

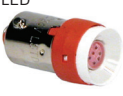

Style	Part Number
 ø40mm Pushlock Turn Reset	AVD-300
 Illuminated ø40mm Pushlock Turn Reset	AVLD3-0600N
 ø40mm Push-Pull	AYD-3100
 Illuminated ø 40mm Push-Pull	2 pos AYLD-0600
	3 pos AYLD22TK962-0B01

Buttons and Lenses

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

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

Lamps

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

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


① Button Color Codes

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

② LED Color Codes


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

Contact Blocks


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

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

Full Voltage Clips

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

Transformers

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

- 6V secondary voltage (uses 6V lamp).

Pilot Lights (Assembled)



Assembled Pilot Lights

A P D 1 126 D N - R - ()

Function
P: Pilot Light

Series Designation
D: TWTD Series

Lens Shape
1: Dome

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



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

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

Lamp Type
Blank: Incandescent
D: LED

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

LED and Incandescent Pilot Lights

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

② Lens Color Codes

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

③ Full Voltage Codes

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

- 1. In place of ②, specify the Lens/LED Color Code.
- 2. In place of ③, specify the Full Voltage Code (lamp voltage).
- 3. Yellow pilot light comes with white LED.

Pilot Lights (Sub-Assembled)



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

One Each from Left Column	plus	One Selection from Right Column
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Operators

Style	Part Number
	APD-006
	APD-199

Full voltage operator comes with full voltage clips.

Lenses

Style	Part Number
	APN106LN-②

1. In place of ②, specify the Lens Color Code.
2. LED and incandescent lenses differ in shade only. Some colors have only one shade.

Lamps

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

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

Full Voltage Clips

Primary Voltage (50/60Hz)	Part Number
	APD-F

Required for all full voltage models. Two pieces each.

Transformers

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

6V secondary voltage (use 6V lamp).

② LED/Lens Color Codes

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

Yellow lens only. Yellow LED not available, use white LED.

Illuminated Pushbuttons (Assembled)



Assembled Illuminated Pushbuttons

A L () D 2 126 11 (D) N - R - ()

Function

L: Momentary Action
OL: Maintained Action

Bezel Shape

Blank: Octagonal
F: Full Shroud

Series Designation

D: TWTD Series

Lens Shape

2: Extended
3: Mushroom ø 40mm

Rated Operational Voltage (Primary)

Transformer Type	Full Voltage Type
126: 120V AC	99: Full Voltage
246: 240V AC	
486: 480V AC	

Lamp Voltage

(full voltage only)

6V: 6V AC/DC
12V: 12V AC/DC
24V: 24V AC/DC
120V: 120V AC
240V: 240V AC (LED only)

Lens Color Code

A: Amber
G: Green
R: Red
S: Blue
W: White
Y: Yellow

Lamp Type

Blank: Incandescent
D: LED

Contact Arrangement

20: 2NO 02: 2NC
11: 1NO-1NC

- 1. Use only when interpreting part numbers. Do not use for developing part numbers.
- 2. All transformers step down to 6V.

Illuminated Pushbuttons (Assembled)

Illuminated Pushbuttons

Style	Contacts	Part Number	
		Momentary	Maintained
Extended Lens 	Full Voltage 1NO-1NC 2NO 2NC	ALD29911ⓈN-Ⓜ-Ⓝ	AOLD29911ⓈN-Ⓜ-Ⓝ
		ALD29920ⓈN-Ⓜ-Ⓝ ALD29902ⓈN-Ⓜ-Ⓝ	AOLD29920ⓈN-Ⓜ-Ⓝ AOLD29902ⓈN-Ⓜ-Ⓝ
Transformer 	1NO-1NC 2NO 2NC	ALD2 Ⓜ 11ⓈN-Ⓜ ALD2 Ⓜ 20ⓈN-Ⓜ ALD2 Ⓜ 02ⓈN-Ⓜ	AOLD2 Ⓜ 11ⓈN-Ⓜ AOLD2 Ⓜ 20ⓈN-Ⓜ AOLD2 Ⓜ 02ⓈN-Ⓜ
		ALD29911ⓈN-Ⓜ-Ⓝ ALD29920ⓈN-Ⓜ-Ⓝ ALD29902ⓈN-Ⓜ-Ⓝ	AOLD29911ⓈN-Ⓜ-Ⓝ AOLD29920ⓈN-Ⓜ-Ⓝ AOLD29902ⓈN-Ⓜ-Ⓝ
Extended Lens with Full Shroud 	Full Voltage 1NO-1NC 2NO 2NC	ALFD29911ⓈN-Ⓜ-Ⓝ ALFD29920ⓈN-Ⓜ-Ⓝ ALFD29902ⓈN-Ⓜ-Ⓝ	AOLFD29911ⓈN-Ⓜ-Ⓝ AOLFD29920ⓈN-Ⓜ-Ⓝ AOLFD29902ⓈN-Ⓜ-Ⓝ
		ALFD2 Ⓜ 11ⓈN-Ⓜ ALFD2 Ⓜ 20ⓈN-Ⓜ ALFD2 Ⓜ 02ⓈN-Ⓜ	AOLFD2 Ⓜ 11ⓈN-Ⓜ AOLFD2 Ⓜ 20ⓈN-Ⓜ AOLFD2 Ⓜ 02ⓈN-Ⓜ
ø 40mm Mushroom Lens 	Full Voltage 1NO-1NC 2NO 2NC	ALD39911ⓈN-Ⓜ-Ⓝ ALD39920ⓈN-Ⓜ-Ⓝ ALD39902ⓈN-Ⓜ-Ⓝ	AOLD39911ⓈN-Ⓜ-Ⓝ AOLD39920ⓈN-Ⓜ-Ⓝ AOLD39902ⓈN-Ⓜ-Ⓝ
		ALD3 Ⓜ 11ⓈN-Ⓜ ALD3 Ⓜ 20ⓈN-Ⓜ ALD3 Ⓜ 02ⓈN-Ⓜ	AOLD3 Ⓜ 11ⓈN-Ⓜ AOLD3 Ⓜ 20ⓈN-Ⓜ AOLD3 Ⓜ 02ⓈN-Ⓜ

② Lens Color Codes


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

③ Full Voltage Codes

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

④ Transformer Voltage Codes

Voltage	Code
120VAC	126
240VAC	246
480VAC	486

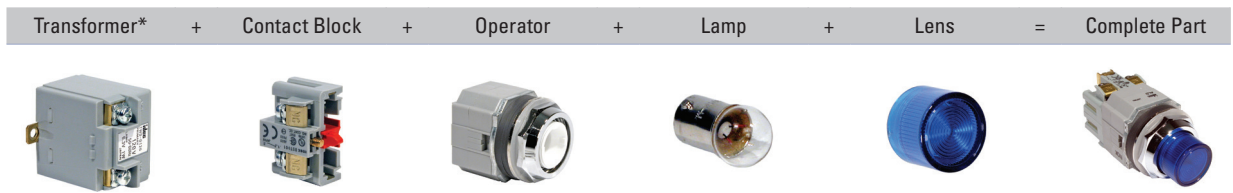
 6V secondary voltage (uses 6V lamp).

⑤ Lamp Type Codes

Lamp	Code
Incandescent	Blank
LED	D

- 1. In place of Ⓜ, specify the Lens Color Code.
- 2. In place of Ⓝ, specify the Full Voltage Code (lamp voltage).
- 3. In place of Ⓜ, specify the Transformer Voltage Code.
- 4. In place of Ⓢ, specify the Lamp Type Code.
- 5. Light is independent of switch position.
- 6. Yellow pushbutton comes with white LED only.

Illuminated Pushbuttons (Sub-Assembled)



*Not required for full voltage types (full voltage types use APD-F full voltage clips).

Operators

Style	Part Number	
	Momentary	Maintained
Extended	ALD-0600	AOLD-0600
Extended with Full Shroud	ALFD-0600	AOLFD-0600
40mm Mushroom	ALD-0600	AOLD-0600

Lenses

Style	Part Number
Extended	ALN06LU-Ⓢ
ø 40mm Mushroom	ALN3LU-Ⓢ

In place of Ⓢ, specify the Lens Color Code.

Full Voltage Clips

Style	Part Number
Full Voltage Clips (2 required for each unit)	APD-F

Required for all full voltage models.

Lamps

Style	Voltage	Part Number
LED	6V AC/DC	LSTD-6Ⓢ
	12V AC/DC	LSTD-1Ⓢ
	24V AC/DC	LSTD-2Ⓢ
	120V AC	LSTD-H2Ⓢ
	240V AC	LSTD-M4Ⓢ
Incandescent	6V AC/DC	IS-6
	12V AC/DC	IS-12
	24V AC/DC	IS-24
	120V AC	L-120L

LED/Lens Color Codes

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

Yellow lens only. Yellow LED not available, use white LED.

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

Contact Blocks

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

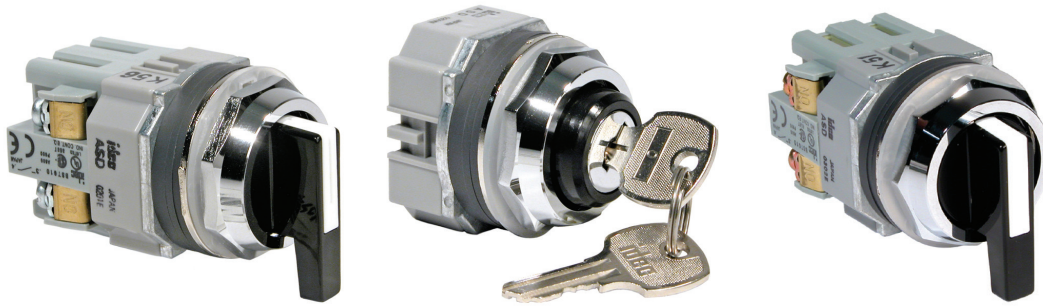
1. Dummy blocks (no contacts) are used with an odd number of contact blocks.
2. Combining BST-010S and BST-001S result in overlapping contacts (remain on, or closed, when switch is moved between two positions).

Transformers

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

6V secondary voltage (use 6V lamp).

Non-Illuminated Selector Switches (Assembled)



Assembled Selector Switches

A S D 2 () () 11 N - ()

Function

S: Selector Switch

Series Designation

D: TWTD Series

Number of Positions

2: 2-Position
3: 3-Position

Spring Return Action

Blank: Maintained
1: Spring return from Right
2: Spring return from Left
3: 2-Way spring return from Left and Right

Circuit Number

(See Circuit # column of Selector Switch Contact Arrangement Chart on beginning on page 739.)

Contact Arrangement Code

10: 1NO 01: 1NC
20: 2NO 02: 2NC
40: 4NO 04: 4NC
11: 1NO-1NC 22: 2NO-2NC

Operator Style Code

Blank: Knob Operator
L: Lever Operator
K: Key Operator

- 1. Use only when interpreting part numbers. Do not use for developing part numbers.
- 2. Custom key removal codes available. Please contact IDEC for details.

Non-Illuminated Selector Switches (Assembled)

Non-Illuminated 2-Position Selector Switches

Style					Part Number		
Contact	Mounting	Operator Position			Maintained	Spring Return from Right	Spring Return from Left
		L	R				
1NO	1 2	0 0	X 0	Knob Lever Key	ASD210N ASD2L10N ASD2K10N	ASD2110N ASD21L10N ASD21K10N	ASD2210N ASD22L10N ASD22K10N
1NC	1 2	X 0	0 0	Knob Lever Key	ASD201N-116 ASD2L01N-116 ASD2K01N-116	ASD2101N-116 ASD21L01N-116 ASD21K01N-116	ASD2201N-116 ASD22L01N-116 ASD22K01N-116
1NO 1NC	1 2	0 X	X 0	Knob Lever Key	ASD211N ASD2L11N ASD2K11N	ASD2111N ASD21L11N ASD21K11N	ASD2211N ASD22L11N ASD22K11N
2NO	1 2	0 0	X X	Knob Lever Key	ASD220N ASD2L20N ASD2K20N	ASD2120N ASD21L20N ASD21K20N	ASD2220N ASD22L20N ASD22K20N
2NC	1 2	X X	0 0	Knob Lever Key	ASD202N-104 ASD2L02N-104 ASD2K02N-104	ASD2102N-104 ASD21L02N-104 ASD21K02N-104	ASD2202N-104 ASD22L02N-104 ASD22K02N-104
2NO 2NC	1 2 3 4	0 X 0 X	X 0 X 0	Knob Lever Key	ASD222N ASD2L22N ASD2K22N	ASD2122N ASD21L22N ASD21K22N	ASD2222N ASD22L22N ASD22K22N
2NO 2NC	1 2 3 4	0 0 X X	X X 0 0	Knob Lever Key	ASD222N-111 ASD2L22N-111 ASD2K22N-111	ASD2122N-111 ASD21L22N-111 ASD21K22N-111	ASD2222N-111 ASD22L22N-111 ASD22K22N-111



- The truth table indicates the operating position of contact block when the operator is switched to that position.
X = On (closed contacts) 0 = Off (open contacts)
X-X = Overlapping Contacts: Remain on (closed contacts) when switch is moved between these two positions.
- All knob and lever selector switches come in black. Other colors are available by ordering the knob or lever separately.
- Custom contact arrangements available, see page 739.

Non-Illuminated 3-Position Selector Switches

Style						Part Number			
Contact	Mounting	Operator Position				Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way
		L	C	R					
2NO	1 2	X 0	0 0	0 X	Knob Lever Key	ASD320N ASD3L20N ASD3K20N	ASD3120N ASD31L20N ASD31K20N	ASD3220N ASD32L20N ASD32K20N	ASD3320N ASD33L20N ASD33K20N
2NC	1 2	0 X	X X	X 0	Knob Lever Key	ASD302N ASD3L02N ASD3K02N	ASD3102N ASD31L02N ASD31K02N	ASD3202N ASD32L02N ASD32K02N	ASD3302N ASD33L02N ASD33K02N
2NO 2NC	1 2 3 4	X 0 0 X	0 0 X X	0 X X 0	Knob Lever Key	ASD322N ASD3L22N ASD3K22N	ASD3122N ASD31L22N ASD31K22N	ASD3222N ASD32L22N ASD32K22N	ASD3322N ASD33L22N ASD33K22N
2NO 2NC	1 2 3 4	X X 0 0	0 X X 0	X 0 0 X	Knob Lever Key	ASD322N-309 ASD3L22N-309 ASD3K22N-309	ASD3122N-309 ASD31L22N-309 ASD31K22N-309	ASD3222N-309 ASD32L22N-309 ASD32K22N-309	ASD3322N-309 ASD33L22N-309 ASD33K22N-309
2NO 2NC	1 2 3 4	0 0 0 0	X 0 X 0	0 X 0 X	Knob Lever Key	ASD322N-310 ASD3L22N-310 ASD3K22N-310	ASD3122N-310 ASD31L22N-310 ASD31K22N-310	ASD3222N-310 ASD32L22N-310 ASD32K22N-310	ASD3322N-310 ASD33L22N-310 ASD33K22N-310
4NO	1 2 3 4	X 0 X 0	0 0 0 0	0 X 0 X	Knob Lever Key	ASD340N ASD3L40N ASD3K40N	ASD3140N ASD31L40N ASD31K40N	ASD3240N ASD32L40N ASD32K40N	ASD3340N ASD33L40N ASD33K40N
4NC	1 2 3 4	0 X 0 X	X X X X	X 0 X 0	Knob Lever Key	ASD304N ASD3L04N ASD3K04N	ASD3104N ASD31L04N ASD31K04N	ASD3204N ASD32L04N ASD32K04N	ASD3304N ASD33L04N ASD33K04N



Non-Illuminated Selector Switches (Sub-Assembled)

Contact Blocks + Operator + Knob or Lever* + Color Insert* = Complete Part†



- 1. *Not needed with key type switches.
- 2. †Knob type shown.

Operators

Style	Position	Description	Part Number	
Knob/Lever 	2	Maintained	ASD200	
		Spring return from right	ASD2100	
		Spring return from left	ASD2200	
	3	Maintained, Cam 1 Maintained, Cam 2	ASD300-1	ASD300-2
			Spring return from right, Cam 1 Spring return from right, Cam 2	ASD3100-1 ASD3100-2
		Spring return from left, Cam 1 Spring return from left, Cam 2	ASD3200-1	ASD3200-2
Spring return from left/right, Cam 1 Spring return from left/right, Cam 2			ASD3300-1 ASD3300-2	
Key 		2	Maintained	ASD2K00-RA
			Spring return from right	ASD21K00-RL
	Spring return from left		ASD22K00	
	3	Maintained, Cam 1 Maintained, Cam 2	ASD3K00-1	ASD3K00-2
			Spring return from right, Cam 1 Spring return from right, Cam 2	ASD31K00-1-RLC ASD31K00-2-RLC
		Spring return from left, Cam 1 Spring return from left, Cam 2	ASD32K00-1-RRC ASD32K00-2-RRC	
Spring return from left/right, Cam 1 Spring return from left/right, Cam 2	ASD33K00-1-RC ASD33K00-2-RC			

- 1. Order knobs, levers, color inserts separately (see below).
- 2. For key switches, keys are removable in all maintained positions. Other options available, contact IDEC for details.
- 3. See page 741 "Operator Truth Tables" for details of difference between cams.

① Color Codes

Knob/Lever Color	Code
Black	B
Blue	S
Green	G
Red	R
Yellow	Y
White	W


- 1. Knob/Lever not available in white.
- 2. Color inserts not available in Black.
- 3. Lever not available in yellow.

Handles and Inserts

Style	Part Number
Knob 	ASDHHY-⊙
Lever 	ASDHHL-⊙*
Color Insert 	TW-HC1-⊙

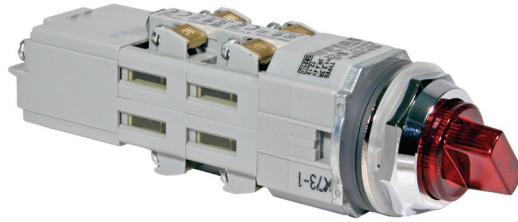
- 1. In place of ⊙, specify the Color Code.
*Not available in yellow.

Contact Blocks

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

- 1. Dummy blocks (no contacts) are used with an odd number of contact blocks.
- 2. Combining BST-010S and BST-001S result in overlapping contacts (remain on, or closed, when switch is moved between two positions).

Illuminated Selector Switches (Assembled)



Assembled Illuminated Selector Switches

A SL D 2 (2) 99 11 D N - 111 - R - 24

Function

SL: Illuminated Selector Switch

Series Designation

D: TWTD series

Number of Positions

2: 2-Position
3: 3-Position

Spring Return Action

Blank: Maintained
1: Spring return from Right
2: Spring return from Left
3: Two-Way spring return from Left and Right

Rated Operational Voltage (Primary)

Transformer Type	Full Voltage Type
126: 120V AC	99: Full Voltage
246: 240V AC	
486: 480V AC	

Contact Arrangement Code

20: 2NO	02: 2NC
40: 4NO	04: 4NC
11: 1NO-1NC	22: 2NO-2NC

Lamp Voltage

(Full Voltage Units Only)

6V: 6V AC/DC
12V: 12V AC/DC
24V: 24V AC/DC
120V: 120V AC
240V: 240V AC (LED only)

Lens Color Code


A: Amber
G: Green
R: Red
S: Blue
W: White
Y: Yellow

Circuit Code Number

See Circuit # column of Selector Switch Contact Arrangement Charts on page 739.

Lamp Type

Blank: Incandescent Lamp
D: LED Lamp

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

Illuminated Selector Switches (Assembled)

Illuminated 2-Position Selector Switches

Style					Part Number		
Contact	Mounting	Operator Position		Lamp Circuit Type	Maintained	Spring Return from Right	Spring Return from Left
		L	R				
1NO 1NC	1 2	0 X	X 0	Transformer Full Voltage	ASLD2 ④11⑤N-② ASLD29911⑤N-②-③	ASLD21 ④11⑤N-② ASLD219911⑤N-②-③	ASLD22 ④11⑤N-② ASLD229911⑤N-②-③
2NO 2NC	1 2	0 0	X X	Transformer Full Voltage	ASLD2 ④20⑤N-② ASLD29920⑤N-②-③	ASLD21 ④20⑤N-② ASLD219920⑤N-②-③	ASLD22 ④20⑤N-② ASLD229920⑤N-②-③
2NC	1 2	X X	0 0	Transformer Full Voltage	ASLD2 ④02⑤N-104-② ASLD29902⑤N-104-②-③	ASLD21 ④02⑤N-104-② ASLD219902⑤N-104-②-③	ASLD22 ④02⑤N-104-② ASLD229902⑤N-104-②-③
2NO 2NC	1 2 3 4	0 X 0 X	X 0 X 0	Transformer Full Voltage	ASLD2 ④22⑤N-② ASLD29922⑤N-②-③	ASLD21 ④22⑤N-② ASLD219922⑤N-②-③	ASLD22 ④22⑤N-② ASLD229922⑤N-②-③
2NO 2NC	1 2 3 4	0 0 X X	X X 0 0	Transformer Full Voltage	ASLD2 ④22⑤N-111-② ASLD29922⑤N-111-②-③	ASLD21 ④22⑤N-111-② ASLD219922⑤N-111-②-③	ASLD22 ④22⑤N-111-② ASLD229922⑤N-111-②-③

② LED/Lens Color Codes

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

③ Full Voltage Codes

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

Illuminated 3-Position Selector Switches, Maintained and Spring Return

Style					Part Number				
Contact	Mounting	Operator Position			Lamp Circuit Type	Maintained	Spring Return From Right	Spring Return from Left	Spring Return Two-Way
		L	C	R					
2NO 2NC	1 2	X 0	0 0	0 X	Transformer Full Voltage	ASLD3 ④ 20⑤N-② ASLD39920⑤N-②-③	ASLD31 ④ 20⑤N-② ASLD319920⑤N-②-③	ASLD32 ④ 20⑤N-② ASLD329920⑤N-②-③	ASLD33 ④ 20⑤N-② ASLD339920⑤N-②-③
2NC	1 2	0 X	X X	X 0	Transformer Full Voltage	ASLD3 ④ 02⑤N-② ASLD39902⑤N-②-③	ASLD31 ④ 02⑤N-② ASLD319902⑤N-②-③	ASLD32 ④ 02⑤N-② ASLD329902⑤N-②-③	ASLD33 ④ 02⑤N-② ASLD339902⑤N-②-③
2NO 2NC	1 2 3 4	X 0 0 X	0 0 X X	0 X X 0	Transformer Full Voltage	ASLD3 ④ 22⑤N-② ASLD39922⑤N-②-③	ASLD31 ④ 22⑤N-② ASLD319922⑤N-②-③	ASLD32 ④ 22⑤N-② ASLD329922⑤N-②-③	ASLD33 ④ 22⑤N-② ASLD339922⑤N-②-③
2NO 2NC	1 2 3 4	X X 0 0	0 X X 0	X 0 0 X	Transformer Full Voltage	ASLD3 ④ 22⑤N-309-② ASLD39922⑤N-309-②-③	ASLD31 ④ 22⑤N-309-② ASLD319922⑤N-309-②-③	ASLD32 ④ 22⑤N-309-② ASLD329922⑤N-309-②-③	ASLD33 ④ 22⑤N-309-② ASLD339922⑤N-309-②-③
2NO 2NC	1 2 3 4	0 0 0 0	X 0 X 0	0 X 0 X	Transformer Full Voltage	ASLD3 ④ 22⑤N-310-② ASLD39922⑤N-310-②-③	ASLD31 ④ 22⑤N-310-② ASLD319922⑤N-310-②-③	ASLD32 ④ 22⑤N-310-② ASLD329922⑤N-310-②-③	ASLD33 ④ 22⑤N-310-② ASLD339922⑤N-310-②-③
4NO	1 2 3 4	X 0 X 0	0 0 0 0	0 X 0 X	Transformer Full Voltage	ASLD3 ④ 40⑤N-② ASLD39940⑤N-②-③	ASLD31 ④ 40⑤N-② ASLD319940⑤N-②-③	ASLD32 ④ 40⑤N-② ASLD329940⑤N-②-③	ASLD33 ④ 40⑤N-② ASLD339940⑤N-②-③
4NC	1 2 3 4	0 X 0 X	X X X X	X 0 X 0	Transformer Full Voltage	ASLD3 ④ 04⑤N-② ASLD39904⑤N-②-③	ASLD31 ④ 04⑤N-② ASLD319904⑤N-②-③	ASLD32 ④ 04⑤N-② ASLD329904⑤N-②-③	ASLD33 ④ 04⑤N-② ASLD339904⑤N-②-③

- In place of ②, specify the Lens/LED Color Code, in place of ③, specify the Full Voltage (lamp voltage) Code, in place of ④, specify the Transformer Voltage Code and in place of ⑤ specify the Lamp Type Code.
- The truth table indicates the operating position of contact block when the operator is switched to that position.
X = On (Closed Contacts) 0 = Off (Open Contacts)
X-X = Overlapping Contacts: Remain on (closed contacts) when switch is moved between these positions
- Yellow selector switch comes with white LED.

④ Transformer Voltage Codes

Voltage	Code
120VAC	126
240VAC	246
480VAC	486

Transformers step down to 6V (use 6V lamp).

⑤ Lamp Type Codes

Lamp	Code
Incandescent	Blank
LED	D

Light is independent of switch position.

Switches & Pilot Devices

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks


Circuit Breakers

Illuminated Selector Switches (Sub-Assembled)




*Not required for full voltage units (use APD-F full voltage clips instead).

Operators

Style	Position	Description	Part Number
 Operator	2	Maintained	ASLD200
	3	Maintained, Cam 1	ASLD300-1
		Maintained, Cam 2	ASLD300-2
	2	Spring return from right	ASLD2100
		Spring return from left	ASLD2200
	3	Spring return from right, Cam 1	ASLD3100-1
		Spring return from right, Cam 2	ASLD3100-2
		Spring return from left, Cam 1	ASLD3200-1
		Spring return from left, Cam 2	ASLD3200-2
		Spring return from left/right, Cam 1	ASLD3300-1
Spring return from left/right, Cam 2		ASLD3300-2	

Contact Blocks

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

- 1. Dummy blocks (no contacts) are used with an odd number of contact blocks.
- 2. Combining BST-010S and BST-001S result in overlapping contacts (remain on, or closed, when switch is moved between two positions).

Full Voltage Clips

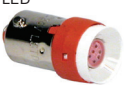

Style	Part Number
 Full Voltage Clips (2 required for each unit)	APD-F

Required for all full voltage models.

Lenses


Style	Part Number
 Knob	ASLNHU-①

Lamps

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

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

Transformers

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

6V secondary voltage.

② LED/Lens Color Codes

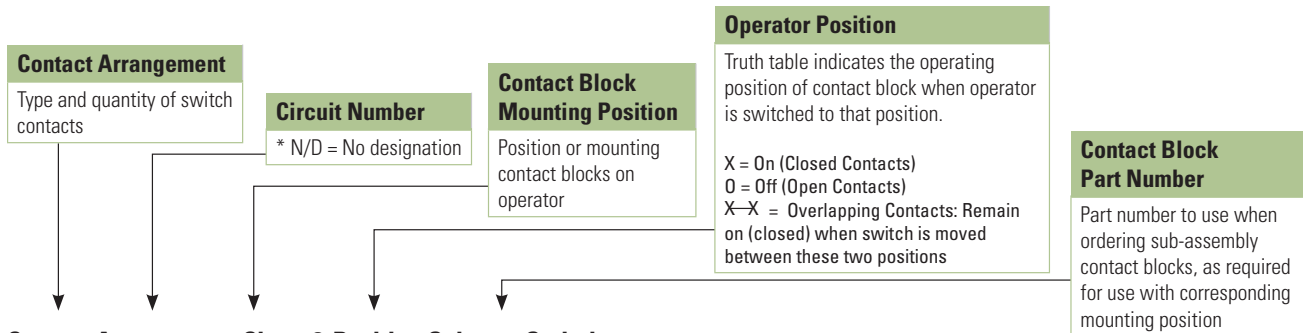
Color	Code	Color	Code
Amber	A	Blue	S
Green	G	White	W
Red	R	Yellow	Y

Yellow lens only. Yellow LED not available, use white LED.

Contact Arrangement Charts

How to Read Contact Arrangement Charts

To determine contact block mounting position, first make sure the selector switch is oriented as shown on the right



Contact Arrangement Chart: 2-Position Selector Switches

Style		Mounting Position	Operator Position		Contact Block Part Number	Description	Operator Part Number		
Contact	Circuit Number		L	R			Maintained	Spring Return from Right	Spring Return from Left
1NO	N/D	1	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	O	BST-D	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
1NC	116	1	X	O	BST-001	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	O	BST-D	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
1NO 1NC	N/D	1	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	X	O	BST-001	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
	103	1	X	O	BST-001	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
1NO-EM 1NC-LB	600	1	O	X	BST-010S	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	X	O	BST-001S	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
	601	1	X	O	BST-001S	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	X	BST-010S	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
2NO	N/D	1	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
2NC	104	1	X	O	BST-001	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	X	O	BST-001	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
2NO 2NC	N/D	1	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	X	O	BST-001	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
		3	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		4	X	O	BST-001	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
	110	1	X	O	BST-001	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
		3	X	O	BST-001	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		4	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
111	1	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00	
	2	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200	
	3	X	O	BST-001	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00	
	4	X	O	BST-001	Illuminated Knob	ASLD200	ASLD2100	ASLD2200	
4NO	N/D	1	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		2	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200
		3	O	X	BST-010	Knob/Lever Key	ASD200 ASD2K00	ASD2100 ASD21K00	ASD2200 ASD22K00
		4	O	X	BST-010	Illuminated Knob	ASLD200	ASLD2100	ASLD2200

Contact Arrangement Chart: 3-Position Selector Switches

Contact	Circuit Number	Mounting Position	Operator Position			Contact Block Part Number	Description	Operator Part Number			
			L	C	R			Maintained	Spring Return from Right	Spring Return from Left	Two-Way
1NO 1NC	202	1	X	0	0	BST-010	Knob/Lever Key	ASD300-1	ASD3100-1	ASD3200-1	ASD3300-1
		2	X	X	0	BST-001	Illuminated Knob	ASD3K00-1 ASLD300-1	ASD31K00-1 ASLD3100-1	ASD32K00-1 ASLD3200-1	ASD33K00-1 ASLD3300-1
	203	1	0	X	X	BST-001	Knob/Lever Key	ASD300-1	ASD3100-1	ASD3200-1	ASD3300-1
		2	0	0	X	BST-010	Illuminated Knob	ASD3K00-1 ASLD300-1	ASD31K00-1 ASLD3100-1	ASD32K00-1 ASLD3200-1	ASD33K00-1 ASLD3300-1
	302	1	X	0	X	BST-010	Knob/Lever Key	ASD300-2	ASD3100-2	ASD3200-2	ASD3300-2
		2	X	X	0	BST-001	Illuminated Knob	ASD3K00-2 ASLD300-2	ASD31K00-2 ASLD3100-2	ASD32K00-2 ASLD3200-2	ASD33K00-2 ASLD3300-2
	303	1	0	X	0	BST-001	Knob/Lever Key	ASD300-2	ASD3100-2	ASD3200-2	ASD3300-2
		2	0	0	X	BST-010	Illuminated Knob	ASD3K00-2 ASLD300-2	ASD31K00-2 ASLD3100-2	ASD32K00-2 ASLD3200-2	ASD33K00-2 ASLD3300-2
2NO	N/D	1	X	0	0	BST-010	Knob/Lever Key	ASD300-1	ASD3100-1	ASD3200-1	ASD3300-1
		2	0	0	X	BST-010	Illuminated Knob	ASD3K00-1 ASLD300-1	ASD31K00-1 ASLD3100-1	ASD32K00-1 ASLD3200-1	ASD33K00-1 ASLD3300-1
	301	1	X	0	X	BST-010	Knob/Lever Key	ASD300-2	ASD3100-2	ASD3200-2	ASD3300-2
		2	0	0	X	BST-010	Illuminated Knob	ASD3K00-2 ASLD300-2	ASD31K00-2 ASLD3100-2	ASD32K00-2 ASLD3200-2	ASD33K00-2 ASLD3300-2
2NC	304	1	0	X	0	BST-001	Knob/Lever Key	ASD300-2	ASD3100-2	ASD3200-2	ASD3300-2
		2	X	X	0	BST-001	Illuminated Knob	ASD3K00-2 ASLD300-2	ASD31K00-2 ASLD3100-2	ASD32K00-2 ASLD3200-2	ASD33K00-2 ASLD3300-2
	N/D	1	0	X	X	BST-001	Knob/Lever Key	ASD300-1	ASD3100-1	ASD3200-1	ASD3300-1
		2	X	X	0	BST-001	Illuminated Knob	ASD3K00-1 ASLD300-1	ASD31K00-1 ASLD3100-1	ASD32K00-1 ASLD3200-1	ASD33K00-1 ASLD3300-1
2NO 2NC	N/D	1	X	0	0	BST-010	Knob/Lever Key Illuminated Knob	ASD300-1 ASD3K00-1 ASLD300-1	ASD3100-1 ASD31K00-1 ASLD3100-1	ASD3200-1 ASD32K00-1 ASLD3200-1	ASD3300-1 ASD33K00-1 ASLD3300-1
		2	0	0	X	BST-010					
		3	0	X	X	BST-001					
		4	X	X	0	BST-001					
	210	1	0	X	X	BST-001	Knob/Lever Key Illuminated Knob	ASD300-1 ASD3K00-1 ASLD300-1	ASD3100-1 ASD31K00-1 ASLD3100-1	ASD3200-1 ASD32K00-1 ASLD3200-1	ASD3300-1 ASD33K00-1 ASLD3300-1
		2	0	0	X	BST-010					
		3	0	X	X	BST-001					
		4	0	0	X	BST-010					
	308	1	X	0	X	BST-010	Knob/Lever Key Illuminated Knob	ASD300-2 ASD3K00-2 ASLD300-2	ASD3100-2 ASD31K00-2 ASLD3100-2	ASD3200-2 ASD32K00-2 ASLD3200-2	ASD3300-2 ASD33K00-2 ASLD3300-2
		2	X	X	0	BST-001					
		3	X	0	X	BST-010					
		4	X	X	0	BST-001					
309	1	X	0	X	BST-010	Knob/Lever Key Illuminated Knob	ASD300-2 ASD3K00-2 ASLD300-2	ASD3100-2 ASD31K00-2 ASLD3100-2	ASD3200-2 ASD32K00-2 ASLD3200-2	ASD3300-2 ASD33K00-2 ASLD3300-2	
	2	X	X	0	BST-001						
	3	0	X	0	BST-001						
	4	0	0	X	BST-010						
310	1	0	X	0	BST-001	Knob/Lever Key Illuminated Knob	ASD300-2 ASD3K00-2 ASLD300-2	ASD3100-2 ASD31K00-2 ASLD3100-2	ASD3200-2 ASD32K00-2 ASLD3200-2	ASD3300-2 ASD33K00-2 ASLD3300-2	
	2	0	0	X	BST-010						
	3	0	X	0	BST-001						
	4	0	0	X	BST-010						

1. Each operator sub-assembly is available as a "-1" and a "-2" for 3-position selector switches. The internal cam of a "-1" is different from that of a "-2". This results in designated combinations of open and closed contacts in the various operator positions.
 2. N/D = No circuit number designation required in assembled part number.
 3. X = On (closed contacts) 0 = Off (open contacts). X-X Overlapping contacts remain on (closed) when switch is moved between these two positions.

Contact Arrangement Chart: 3-Position Selector Switches

Style		Mounting Position	Operator Position			Contact Block Part Number	Description	Operator Part Number			
Contact	Circuit Number		L	C	R			Maintained	Spring Return from Right	Spring Return from Left	Two-Way
4NO	N/D	1	X	0	0	BST-010	Knob/Lever Key Illuminated Knob	ASD300-1 ASD3K00-1 ASLD300-1	ASD3100-1 ASD31K00-1 ASLD3100-1	ASD3200-1 ASD32K00-1 ASLD3200-1	ASD3300-1 ASD33K00-1 ASLD3300-1
		2	0	0	X	BST-010					
		3	X	0	0	BST-010					
		4	0	0	X	BST-010					
	305	1	X	0	X	BST-010	Knob/Lever Key Illuminated Knob	ASD300-2 ASD3K00-2 ASLD300-2	ASD3100-2 ASD31K00-2 ASLD3100-2	ASD3200-2 ASD32K00-2 ASLD3200-2	ASD3300-2 ASD33K00-2 ASLD3300-2
		2	0	0	X	BST-010					
		3	X	0	X	BST-010					
		4	0	0	X	BST-010					
4NC	N/D	1	0	X	X	BST-001	Knob/Lever Key Illuminated Knob	ASD300-1 ASD3K00-1 ASLD300-1	ASD3100-1 ASD31K00-1 ASLD3100-1	ASD3200-1 ASD32K00-1 ASLD3200-1	ASD3300-1 ASD33K00-1 ASLD3300-1
		2	X	X	0	BST-001					
		3	0	X	X	BST-001					
		4	X	X	0	BST-001					
	314	1	0	X	0	BST-001	Knob/Lever Key Illuminated Knob	ASD300-2 ASD3K00-2 ASLD300-2	ASD3100-2 ASD31K00-2 ASLD3100-2	ASD3200-2 ASD32K00-2 ASLD3200-2	ASD3300-2 ASD33K00-2 ASLD3300-2
		2	X	X	0	BST-001					
		3	0	X	0	BST-001					
		4	X	X	0	BST-001					

- Each operator sub-assembly is available as a "-1" and a "-2" for 3-position selector switches. The internal cam of a "-1" is different from that of a "-2". This results in designated combinations of open and closed contacts in the various operator positions.
- N/D = No circuit number designation required in assembled part number.
- X = On (closed contacts) 0 = Off (open contacts). X-X Overlapping contacts remain on (closed) when switch is moved between these two positions.

Operator Truth Tables

Use the following tables to build custom selector switches.

2 Position Selector Switches

	Contact	Mounting Position	Operator Position	
			Left	Right
ASD200	BST-010 (NO)	L	0	X
		R	0	X
	BST-001 (NC)	L	X	0
		R	X	0
	BST-010S (NO-EM)	L	0	X-X
		R	0	X-X
	BST-001S (NC-LB)	L	X-X	0
		R	X-X	0

3 Position Push/Pull Switches

	Contact	Operator Position		
		Pull	Normal	Push
AYLD22	BST-010 (NO)	0	0	X
	BST-001 (NC)	X	0	0
	BST-010S (NO-EM)	0	X	X
	BST-001S (NC-LB)	X	X	0

3 Position Selector Switches

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASD300-1 ASLD300-1 ASD3K00-1	BST-010 (NO)	L	X	0	0
		R	0	0	X
	BST-001 (NC)	L	0	X-X	X
		R	X-X	0	0
	BST-010S (NO-EM)	L	X	0	0
		R	0	0	X
	BST-001S (NC-LB)	L	0	X-X	X
		R	X-X	0	0

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASD300-2 ASLD300-2 ASD3K00-2	BST-010 (NO)	L	X	0	X
		R	0	0	X
	BST-001 (NC)	L	0	X	0
		R	X-X	0	0
	BST-010S (NO-EM)	L	X	0	X
		R	0	0	X
	BST-001S (NC-LB)	L	0	X-X	0
		R	X-X	0	0

Accessories – TWTD Series

TWTD Series Accessories

Item	Appearance	Description/Usage	Part Number
Lamp Removal Tool		Rubber tool used to install or remove LED's and incandescent lamps	OR-55
Metal Bezel		Standard octagonal units (chrome-pl.).	OG-81
		Extended, non-illuminated (chrome-pl.).	OG-82
		Extended, illuminated (chrome-pl.).	OG-83L
		Jumbo Mushroom Shallow Shroud	ABN4G
		Jumbo Mushroom Deep Shroud	ABN4F
Plastic Bezel		Black plastic locking ring/bezel	OGP11B
Boot/Cover		In place of ☉, specify Neoprene Rubber Boot color: B (black), G (green), R (red), Y (yellow)	OC-11 ☉
		Flush units (clear plastic -40° to +60°C).	OC-121
		Extended units (clear plastic -40° to +60°C).	OC-122
Anti-Rotation Ring		Plastic washer For nameplates or panels that should not be scratched.	OGL-D1T
		Thrust washer/Anti-rotation ring for use with notched panel cutout.	OGL-D1S
Mounting Hole Plug		Plastic with locking nut attached.	OBP-11
		Metal with locking nut attached	OB-11
		Grey rubber (-5° to +60°C)	OB-13
Terminal Tab Adaptor		Tab #250 17/64" x 3/64" (6.35mm x 0.8mm): Single tab	TW-FA1
Full Voltage Adaptor		Used on all full voltage illuminated units. Two required per unit. (M3.5 screw and saddle)	APD-F
Lock Out Adaptor		Used to provide lockout protection for TWTD pushbuttons and knob selectors. ø 1-13/64" (30mm)	OL-KL1
Replacement Keys		Pair of keys (#0)	TW-SK

Fingersafe Covers for TWTD Series

Item	Description	Used with	Part Number
	Fingersafe terminal cover, for full voltage pilot lights, adds 3mm to overall depth	APD199... full voltage pilot lights	APD-PVL
	Fingersafe terminal cover, for contact blocks, adds 3mm to overall depth	Non-Illuminated pushbuttons ABD..., and AOD...	N-VL2
	Fingersafe terminal cover, adds 1.5mm to overall depth	Transformer pilot lights and illuminated units	N-VL3
	Fingersafe terminal cover, adds 4 mm to depth	Full voltage illuminated pushbuttons	N-VL4

Switches & Pilot Devices

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

Nameplates – TWTD Series

Faceplates

	NALD	NAKD	NAQD	HNAV
Dimensions				
Description	Part Number			
Nameplate (blank)	NALD-B (black) NALD-R (red)	NAKD-B (black) NAKD-R (red)	NAQD-B (black) NAQD-R (red)	HNAV-0
Nameplate (engraved)	NALD-⓪	NAKD-⓪	NAQD-⓪	HNAV-27 "Emergency Stop"

- 1. Nameplates are made of 0.031" aluminum. Lettering is white letters engraved on black background.
- 2. In place of ⓪, insert either the standard legend code from table below or custom engraving delimited by " ".
- 3. HNAV available in yellow only.

Standard Legend Codes

Pushbuttons				Pushbuttons/Selector Switches				Selector Switches	
Legend	Code	Legend	Code	Legend	Code	Legend	Code	Legend	Code
AUTO	101	OPEN	116	AUTO-MAN	201			AUTO-MAN-OFF	301
CLOSE	102	OUT	117	CLOSE-OPEN	202			AUTO-OFF-MAN	302
DOWN	103	RAISE	118	DOWN-UP	203			CLOSE-OFF-OPEN	303
EMERG.STOP*	104	RESET	119	FAST-SLOW	204			DOWN-OFF-SLOW	304
FAST	105	REVERSE	120	FOR-REV	205	REV-FOR	216	FAST-OFF-SLOW	305
FORWARD	106	RUN	121	HAND-AUTO	206	RUN-JOG	217	FOR-OFF-REV	306
HAND	107	SLOW	122	HIGH-LOW	207	RUN-SAFE	218	LEFT-OFF-RIGHT	307
HIGH	108	START	123	JOG-RUN	208	SAFE-RUN	219	LOWER-OFF-RAISE	308
IN	109	STOP*	124	LEFT-RIGHT	209	SLOW-FAST	220	OFF-MAN-AUTO	309
INCH	110	STOP	125	LOWER-RAISE	210	START-STOP	221	OFF-SLOW-FAST	310
JOG	111	TEST	126	MAN-AUTO	211	STOP-START	222	OFF-1-2	311
LOW	112	UP	127	OFF-ON	212	UP-DOWN	223	OPEN-OFF-CLOSE	312
LOWER	113	I (Int'l On)	150	ON-OFF	213			SLOW-OFF-FAST	313
OFF	114	O (Int'l Off)	151	OPEN-CLOSE	214			SUMMER-OFF-WINTER	314
ON	115	EMO	152	RAISE-LOWER	215			UP-OFF-DOWN	315
								1-OFF-2	316
								HAND-OFF-AUTO	317

- 1. *Available in Red as standard legend code 104 and 124. To order engraved nameplate and codes, add legend code to nameplate part number. Character height based on the number of characters, space and size of nameplate. Standard character size is 3/16".
- 2. Nameplates with standard legends are the same list price as blank nameplates. Special engravings, additional cost.

To specify engraving instructions, use the Nameplate order form on next page.

Custom engraved Nameplates Order Form – TWTD Series

Copy this order form and use it to specify Letter Height, Custom Engravings, Location of Engraving on Nameplate, and Quantity Desired.

To ensure engraving accuracy, fax it to your IDEC representative, or Distributor.

Your Company Name: _____

IDEC Rep/Distributor Contact: _____

Your Name: _____

PO number (if known): _____

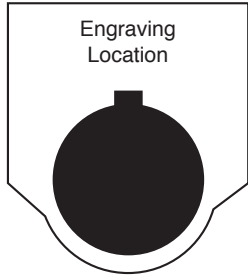
Telephone: _____

IDEC Rep/Distributor Phone: _____

Fax & Email: _____

IDEC Rep/Distributor Fax & Email: _____

NALD Nameplate



Step 1.

Choose Letter Size - 7/64" or 1/8".

Check the box for the letter size you want. Then write your lettering in box below checkboxes. Note: 1/8" size letters cannot exceed 13 characters.

Sample Letter Sizes

7/64" Letters: A B C D

1/8" Letters: A B C D

7/64"
Letter Size

16 characters max
(for 7/64" size letters)

1/8"
Letter Size

13 characters max
(for 1/8" size letters)

Step 2.

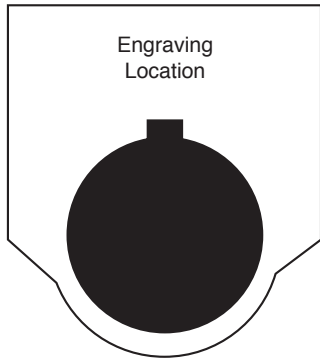
Specify Quantity.

Enter the number of nameplates desired in the box on the right.

Qty

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

NAKD Nameplate



Step 1.

Choose Letter Size - 7/64" or 1/8".

Check the box for the letter size you want. Then write your lettering in box below checkboxes. Note: 1/8" size letters cannot exceed 9 characters.

Step 2.

Specify Quantity.

Enter the number of nameplates desired in the box on the right.

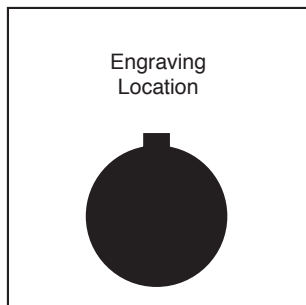
Qty

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Sample Letter Sizes

1/8" Letters: A B C D

NAQD Nameplate



Step 1.

Choose Letter Size - 7/64" or 1/8".

Check the box for the letter size you want. Then write your lettering in box below checkboxes.

Note: 1/8" size letters cannot exceed 16 characters.

7/64"
Letter Size

20 characters max
(for 7/64" size letters)

1/8"
Letter Size

16 characters max
(for 1/8" size letters)

Step 2.

Specify Quantity.

Enter the number of nameplates desired in the box on the right.

Qty

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Sample Letter Sizes

3/32" Letters: A B C D

1/8" Letters: A B C D

Switch Engraving Order Form – TWTD Series

Copy this order form and use it to specify Letter Height, Maximum Number of Lines and Text to be engraved.

To insure engraving accuracy, fax it to your IDEC representative or Distributor.

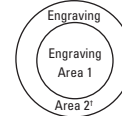
Your Company: _____
 Name: _____
 Address: _____
 PO: _____

Telephone: _____
 Fax: _____
 Email: _____
 Part Number to be Engraved: _____

Please check one of the boxes below to indicate your choice of engraving options:



ø29mm, ø40mm Mushroom Head



	# of Lines	Letter Height	Max. Characters Per Line
<input type="checkbox"/>	1	5/32	7
<input type="checkbox"/>		1/8	8
<input type="checkbox"/>	2	5/32	7
<input type="checkbox"/>		1/8	8
<input type="checkbox"/>	3	1/8	8
<input type="checkbox"/>	4	Custom*	

	# of Lines	Letter Height	Max. Characters Per Line
<input type="checkbox"/>	1	3/4	4
<input type="checkbox"/>		5/16	5
<input type="checkbox"/>	2	5/16	5
<input type="checkbox"/>		1/4	6
<input type="checkbox"/>		5/32	8
<input type="checkbox"/>	3	5/32	8
<input type="checkbox"/>		1/8	9
<input type="checkbox"/>	4	1/8	9

		# of Lines	Letter Height	Max. Characters Per Line
<input type="checkbox"/>	Engraving Area 1	1	5/32	5
<input type="checkbox"/>			1/8	5
<input type="checkbox"/>	Engraving Area 2	1	5/32	7
<input type="checkbox"/>			1/8	7



- Above mentioned specifications hold true for standard size push-buttons (round and square).
- *Engraving Area 2 can be engraved for 40mm mushroom head non-illuminated pushbutton only.
- Engraving is done on the button itself for non-illuminated push buttons and on marking plate for illuminated push buttons and pilot lights.
- Please enter text exactly how you want it engraved, take care to emphasize capital or small letters.

*Engraving is possible, but character size will be smaller than standard sizes.



	# of Lines	Letter Height	Max. Characters Per Line
<input type="checkbox"/>	1	5/32	7
<input type="checkbox"/>		1/8	8
<input type="checkbox"/>	2	5/32	7
<input type="checkbox"/>		1/8	8
<input type="checkbox"/>	3	1/8	8
<input type="checkbox"/>	4	Custom*	

*Engraving is possible, but character size will be smaller than standard sizes.

Enter text to be engraved:

Line 1: _____
 Line 2: _____
 Line 3: _____
 Line 4: _____

Sample Letter Sizes

1/8 Letters: **OPEN**

5/32 Letters: **OPEN**



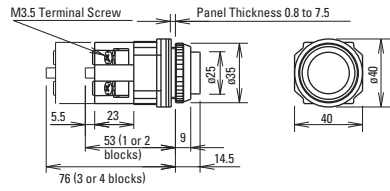
All engraving is 5/8mm wide.

For IDEC Internal Use Only:

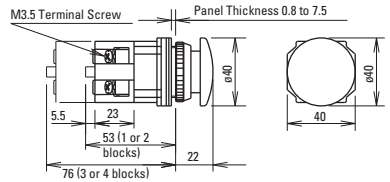
Work Order #: _____

Dimensions (mm)

Pushbutton



Mushroom Pushbutton w/Full Shroud



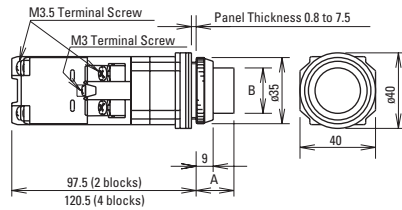
Pushbuttons	Dimension A	Dimension B
Flush	0.351" (9mm)	ø 0.975" (25mm)
Extended	0.566" (14.5mm)	ø 0.975" (25mm)
Extended w/Full Shroud	0.663" (17mm)	ø 1.11" (28.5mm)
Mushroom	0.858" (22mm)	ø 1.56" (40mm)
Mushroom w/Full Shroud	0.936" (24mm)	ø 1.87" (48mm)
Jumbo Mushroom	1.13" (29mm)	ø 2.54" (65mm)
Mushroom, Pushlock Turn Reset and Push-Pull	*0.975" (25mm) **0.975" (25mm)	ø 1.56" (40mm) ø 1.56" (40mm)



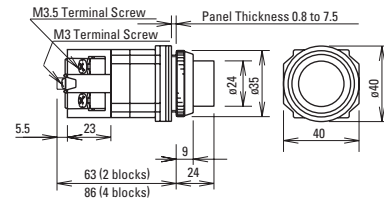
*Dimension when operator is in reset position.
**Dimension when operator is in pull position.

Illuminated Pushbuttons

w/Transformer



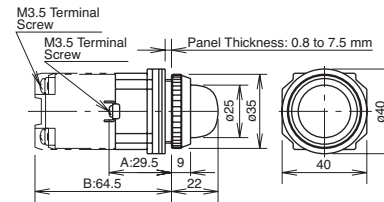
Full Voltage



Illuminated Pushbuttons	Dimension A	Dimension B
Flush w/Full Shroud	0.975" (25mm) 0.995" (25.5mm)	ø 0.936" (24mm) ø 0.936" (24mm)
Extended w/Full Shroud	0.741" (19mm) 0.761" (19.5mm)	ø 0.936" (24mm) ø 0.936" (24mm)
ø 1.56" (40mm) Mushroom Pushlock Turn Reset, Push-Pull	*0.975" (25mm) **0.975" (25mm)	ø 1.56" (40mm) ø 1.56" (40mm)

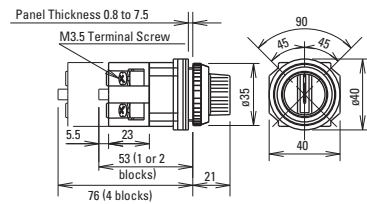
*Dimension when operator is in reset position.
**Dimension when operator is in pull position.

Pilot Lights

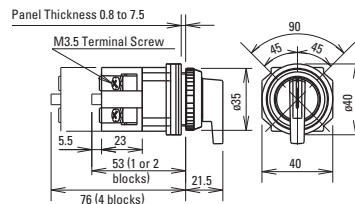


Selector Switches

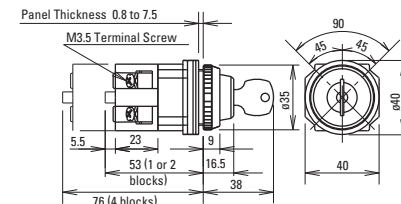
Knob



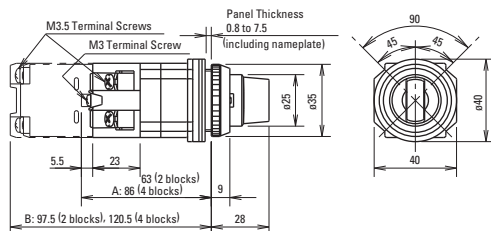
Lever



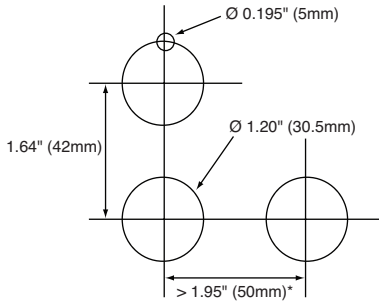
Key



Illuminated Knob



Selector Switches Panel Cut-Out

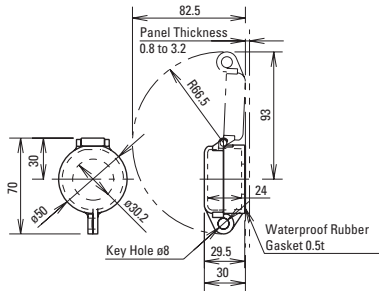


- * Jumbo Mushroom < 2.61" (66mm)
- Minimum mounting centers are applicable to switches with one stack of contact blocks. When mounting two stacks of contact blocks, minimum centers should allow for access to wiring.
- The ø 0.195" (ø 5mm) recess is necessary when either the nameplate or anti-rotation ring is used.

Illuminated Selector Switches

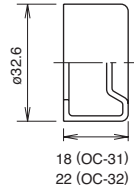
OL-KL1

Lock-Out Adaptor



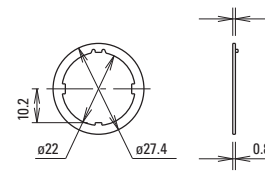
OC-31

Pushbutton Clear Boot



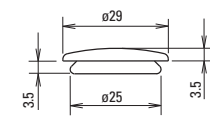
OGL-31

Anti-Rotation Ring



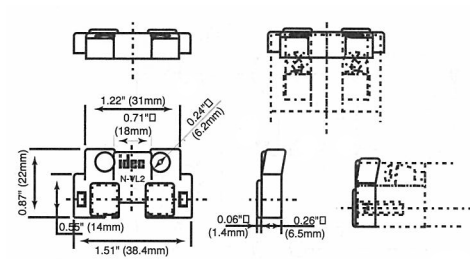
OB-31

Mounting Hole Rubber Plug

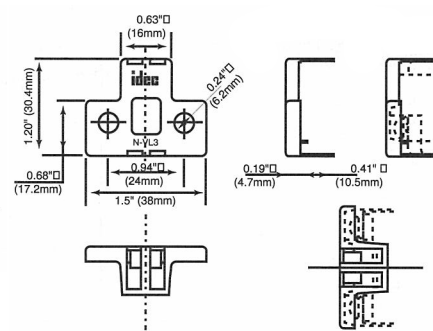


Finger-Safe Cover

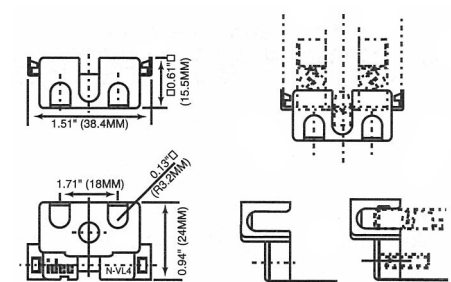
N-VL2



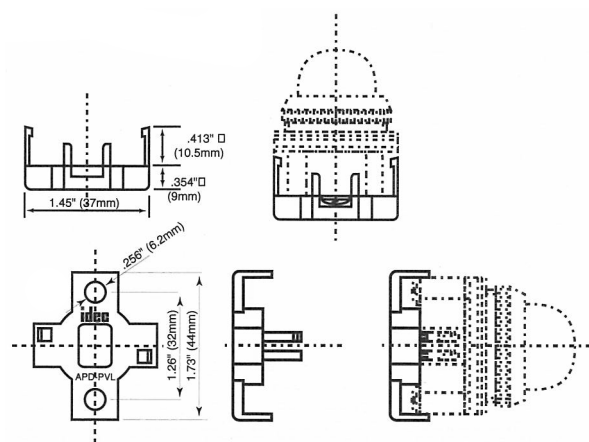
N-VL3



N-VL4



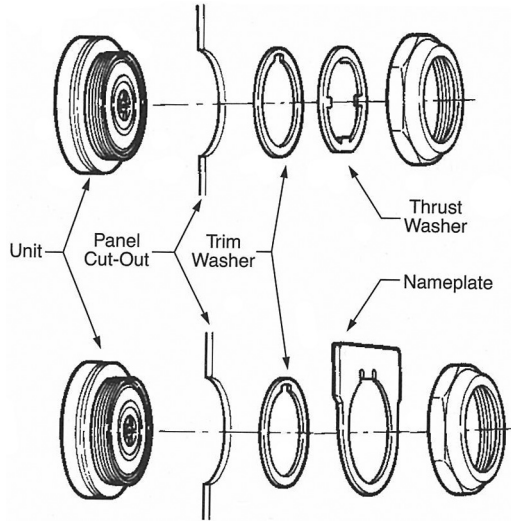
APD-PVL



Operating Instructions

Adjustment for Panel Thickness

Each unit is shipped with several waterproof gaskets which are 0.06" (1.5mm) and 0.12" (3mm) thick. Combine the gaskets for a dimension approximately equal to panel thickness and install between the bezel and the body of the unit.



A trim washer must be used with a thrust washer or a nameplate to prevent the control unit from rotating in the mounting hole. When using anti-rotation rings (trim washer with thrust washer or nameplate), install as shown below.

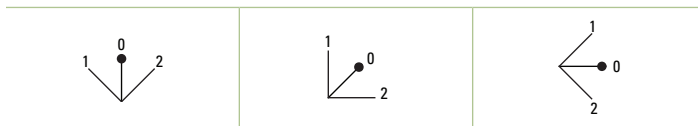
Selector Switches

The operator shaft of each unit has a recess to identify in which direction to install the handle. Align the handle with the recess. Press color insert (TW-HC1) into the Standard Operating Positions.

Standard Operation Positions

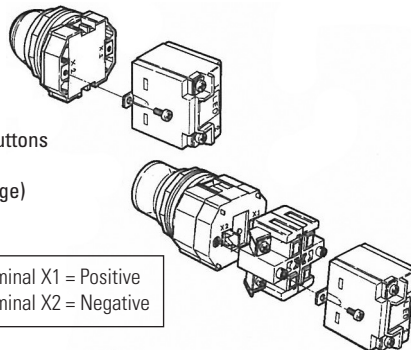
2-Position, 90°	3-Position, 45°

Non-Illuminated 3-Position Operators



Installation of TWTD Series Units

TWTD Pilot Lights



TWTD Illuminated Pushbuttons
TWTD Selector Switches
(Transformer or Full Voltage)

Terminal X1 = Positive
Terminal X2 = Negative

Installation of LED Illuminated Units

Transformer units are recommended for use in areas subjected to inductive noise. When using full voltage types, install a protection diode as shown below. Use diode with DC power supply to protect against surges and noise.

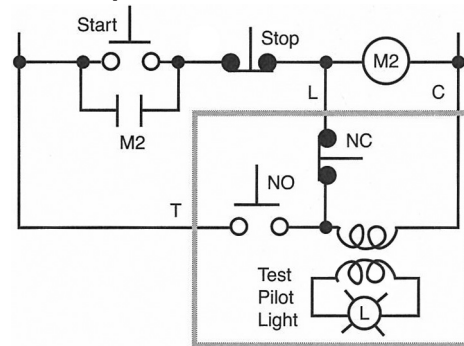


Make sure that LED illuminated units are installed with correct polarity, as indicated at the terminals.

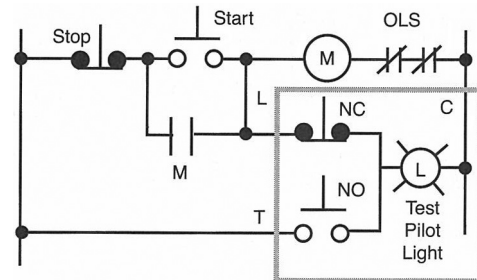
Application Example For Push-To-Test Pilot Light

A typical application of illuminated pushbuttons is a push-to-test pilot light which can be used to check the lamp/LED circuit.

Transformer/AC-Adapter Circuit



Full Voltage Circuit



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