

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Explosionproof, Dust-Ignitionproof

Furnished with Internal Ground Screw.

NEC:

Class I, Division 1, Groups C, D

Class I, Division 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3, 7CD, 9EFG

Applications

- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or local location.
- Confine arcing of device within the enclosure, preventing ignition of ignitable atmospheres during control operation of motors and other equipment.
- Used in classified areas where flammable vapors, gasses or highly combustible dusts are present.
- For installation in:
 - Chemical plants
 - Petrochemical plants
 - Refineries
 - Other process industries
 - Where corrosive elements are present

Features

- Covers are UL Listed when used on Optitrol bodies.
- Finish is epoxy powder coat for enhanced corrosion resistance.
- Large backbox for ample wiring room.
- Ground screw installed in bodies for ground continuity.
- Corrosion resistant stainless steel hex head captive screws hold covers to body.
- Factory sealed enclosure eliminates need for adding sealing fittings and compound at each conduit entrance.
- Heavy duty, 10 Amp, 600 Vac.
- Factory sealed pilot lights supplied with jewel/guard assembly and 120 Vac/Vdc, 50/60 Hz, 6 Watt lamp (LED provided as option).
- Dozens of possible combinations of push buttons, pilot lights and selector switches.
- Accurately tapped, tapered hubs for tight rigid joints and ground continuity.
- Stainless steel push button shaft operates within stainless steel bushing assuring long, maintenance free operation.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- Push button and selector switch contacts are silver cadmium oxide which are “sealed” in lower phenolic chamber isolated from corrosive elements. Assures positive contact and long, trouble free operation.
- Enclosed stainless steel helper spring prevents accidental operation of push button in severe vibration installations.
- All momentary push buttons are supplied with lockout type guards as standard. Hole in guard will accept locks with up to 1/4” hasp. Permits locking of push button to prevent unauthorized operation.
- Clearly marked terminals with brass screws and spade terminals assure quick, easy wiring.

Standard Materials

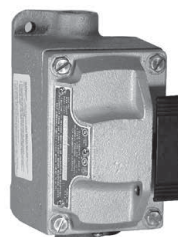
- Control station body and cover: malleable iron
- SPBB push button: copperfree (4/10 of 1% max.) aluminum upper barrel and phenolic lower barrel with nylon plastic button
- SPBB dust cap push button: neoprene buttons
- SPLS pilot light: copperfree (4/10 of 1% max.) aluminum guard and body assembly; steel clamping ring; and tempered glass jewel



Push Button



Combination Push Button and Pilot Light



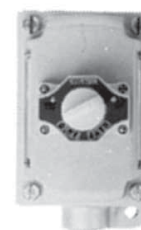
Rocker Arm Push Button



Maintained Push Button



Pilot Light



Selector Switch

- SSBA selector switch: copperfree (4/10 of 1% max.) aluminum operator mechanism, nylon cam, and sealed phenolic contact block

Standard Finishes

- Control station body: triple coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- SPBB push button, SPLS pilot light and SSBA selector switch: natural finish

Classified by UL for use in specific combinations with Cooper Crouse-Hinds EDS covers and bodies.

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NEMA 3, 7CD, 9EFG

Options

- 1- or 2-gang boxes:
 - For aluminum cover only, add suffix - **A**.
 - For aluminum body and cover, add suffix - **SA**.
- Three position selector switches with modified operation:
 - Momentary contact right position, spring return to center; maintained contact left position. Add suffix - **S634**.
 - Momentary contact left position, spring return to center; maintained contact right position. Add suffix - **S635**.
 - Momentary contact right position, spring return to center; maintained contact left position; alternate contacts. Add suffix - **S636**.
- Selector switch lockout locks two or three position handle in any position. Add suffix - **S349**.
- Momentary push button securing rod, add suffix - **S153**.
- Pilot light jewel/guard assembly. Order by suffixes if color desired is other than red:
 - Amber- **J6**
 - Opal- **J8**
 - Clear - **J10**
 - Blue- **J11**
 - Green- **J3**
- Bodies and covers (1- or 2-gang) in copperfree (4/10 of 1% max.) aluminum. Add suffix - **SA**.
- Securing rod for push button lockout guard, add suffix- **S153**.
- LED pilot lights are available in lieu of incandescent pilot lights. Order by suffixes for desired color as follows:
 - Red- **LED1**
 - Green- **LED3**
 - Amber- **LED6**

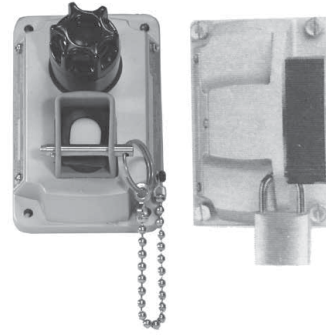
NEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203,
- UL Listed: E10449, E81751

Related Products

- For Division 1, Group B applications, refer to *EFDB Series*.

Illustrated Features

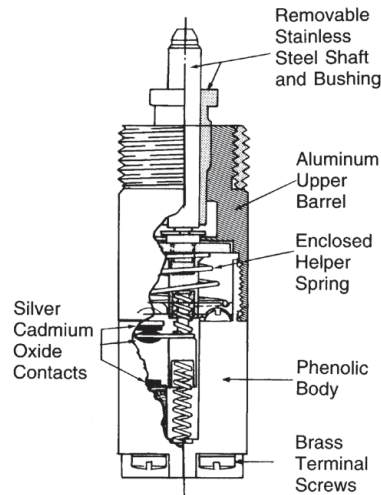


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- **S153**.

SPBB factory sealed push button — standard type and unit with dust cap.



SPBB Design Features



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Catalog Numbering Guide

NEDS	1	2	524	J3	NLNPRUNQ	1274	S634	NSLNPJORQ
NEC Certified NEDS Series Box/ Hub Arrangement: NEDS - Dead-End NEDSC - Feed-Thru NEDKB - 1- 2 Device Cover Only NEDKL - 3 Device Cover Only	Hub Size: 1 - 1/2" 2 - 3/4" 3 - 1"		Device for first gang: See Accessories		Special Nameplate for first gang: See Accessories		Options for second gang: See Options	
T - Tandem L - Three Device		2 - 2-Gang 1 - 1-Gang		Options for first gang: See Options		Device for second gang: See Accessories		Special Nameplate for second gang: See Accessories

Full Catalog Number: EDSC12-524-J3-LNPUPQ-1274-S634-SLNPJORQ

Feed-Thru 2-Gang Box with 1/2" Hub:

In Gang #1: One Pilot Light with UP Nameplate

In Gang #2: One 3-Position, 4-Circuit Spring Return from the right Selector Switch with JOG-OFF-RUN Nameplate.

Options

Description	Suffix
Momentary Push Button Securing Rod	S153
Selector Switch Lockout	S349
Spring Return From Right Selector Switch (3 Positions Only)	S634
Spring Return From Left Selector Switch (3 Positions Only)	S635
Alternate Contacts Selector Switch	S636
Change One Red Lens to Green Lens	J3
Change One Red Lens to Opal Lens	J8
Change One Red Lens to Amber Lens	J6
Change One Red Lens to Blue Lens	J11
Change One Red Lens to Clear Lens	J10
Add 220/120 Vac Transformer (J1 Device Only)	S801
Add 277/120 Vac Transformer (J1 Device Only)	S802
Add 440/120 Vac Transformer (J1 Device Only)	S803
Add 550/120 Vac Transformer (J1 Device Only)	S804
Change One Red Pilot to Red LED	LED1
Change One Red Lens to Green LED	LED3
Change One Red Lens to Amber LED	LED6
Add Red Mushroom Head to Momentary Push Button	S805
Add Black Mushroom Head to Momentary Push Button	S806
Add Green Mushroom Head to Momentary Push Button	S807
Locking Guard for Maintained Push Button	S808

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Devices

Device Description	Available in 1–G, 2–G Tandem	Available in Three Device	Suffix
One Pilot Light (Red Standard)	Y		524
Two Pilot Lights	Y		561
One Pilot Light and One Momentary Push Button	Y		473
One Pilot Light and Two Momentary Push Buttons	Y	Y	234
One Pilot Light and One Maintained Push Button	Y		701
One Pilot Light and One Dust-Cap Push Button	Y		702
One Pilot Light and One 12 Selector Switch (12 - 2 Position, 2 Circuit)	Y		703
One Pilot Light and One 35 Selector Switch (35 - 2 Position, 4 Circuit)	Y		704
One Pilot Light and One 102 Selector Switch (102 - 3 Position, 2 Circuit)	Y		705
One Pilot Light and One 345 Selector Switch (345 - 3 Position, 4 Circuit)	Y		706
One Monetary Push Button	Y		84
Two Monetary Push Buttons	Y		90
Two Side-By-Side Momentary Push Buttons	Y		95
Three Monetary Push Buttons	Y	Y	707
One Momentary Push Button and One Maintained Push Button	Y		708
One Momentary Push Button and One Dust Cap Push Button	Y		709
One Momentary Push Button and One 12 Selector Switch (12 - 2 Position, 2 Circuit)	Y		710
One Momentary Push Button and One 35 Selector Switch (35 - 2 Position, 4 Circuit)	Y		711
One Momentary Push Button and One 102 Selector Switch (102 - 3 Position, 2 Circuit)	Y		712
One Momentary Push Button and One 345 Selector Switch (345 - 3 Position, 4 Circuit)	Y		713
One Maintained Push Button (Mushroom Head - Red)	Y		714
Two Maintained Push Button	Y		715
One Maintained and One Dust Cap Push Button	Y		716
One Maintained Push Button and One 12 Selector Switch (12 - 2 Position, 2 Circuit)	Y		717
One Maintained Push Button and One 35 Selector Switch (35 - 2 Position, 4 Circuit)	Y		718
One Maintained Push Button and One 102 Selector Switch (102 - 3 Position, 2 Circuit)	Y		719
One Maintained Push Button and One 345 Selector Switch (345 - 3 Position, 4 Circuit)	Y		720
One Dust Cap Push Button	Y		721
Two Dust Cap Push Buttons	Y		722
One Dust Cap and One 12 Selector Switch (12 - 2 Position, 2 Circuit)	Y		723
One Dust Cap and One 35 Selector Switch (35 - 2 Position, 4 Circuit)	Y		724
One Dust Cap and One 102 Selector Switch (102 - 3 Position, 2 Circuit)	Y		725
One Dust Cap and One 345 Selector Switch (345 - 3 Position, 4 Circuit)	Y		726
One 12 Selector Switch (12 - 2 Position, 2 Circuit)	Y		271
One 35 Selector Switch (35 - 2 Position, 4 Circuit)	Y		272
One 102 Selector Switch (102 - 3 Position, 2 Circuit)	Y		273
One 345 Selector Switch (345 - 3 Position, 4 Circuit)	Y		274
120 Vac Photocell	Y		727
277 Vac Photocell	Y		728
Three Dust Cap Push Buttons		Y	729
One Momentary and Two Maintained Push Buttons		Y	730
Two Momentary and One Maintained Push Buttons	Y	Y	731
Three Maintained Push Buttons		Y	732
Three Pilot Lights		Y	476
Two Pilot Lights and One Momentary Push Button		Y	733
One Pilot Light and Two Dust Cap Push Buttons		Y	734
Two Pilot Lights and One Dust Cap Push Button		Y	735
One Pilot Light and Two Maintained Push Buttons		Y	736
Two Pilot Lights and One Maintained Push Button		Y	737

02-GEDNEY

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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NEMA 3, 7CD, 9EFG

Nameplates ①

Description	Suffix
Mushroom Head Push Buttons (Maintained and Momentary)	
Start	NMNPSTQ
Stop	NMNPSPQ
Emergency Stop	NMNPESTPQ
Blank	NMNPBQ
Pilot Light Nameplates	
Blank	NLNPBQ
Forward	NLNPFWDQ
Jog	NLNPJOGQ
Run	NLNPRUNQ
Stop	NLNPSQ
Start	NLN PSTQ
Down	NLNPDOWNQ
Fast	NLNPFASQ
Slow	NLNPSLOWQ
Raise	NLN PRAISEQ
Lower	NLN PLOWERQ
Reset	NLN PRESETQ
Off	NLNPOFFQ
On	NLN PONQ
Reverse	NLNPREVQ
Close	NLNPCLOSEQ
Open	NLNPOPENQ
Up	NLN PUPQ
Test	NLNPTTESTQ
Low	NLN PLOWQ
High	NLNPHIGHQ
Two Position Selection Switch Nameplates	
Forward-Reverse	NSLNPFRQ
Hand—Auto ②	NSLNPHAQ
On—Off	NSLNPOO
Start—Stop	NSLNPSS
Blank	NSLNPBQ
Up—Down	NSLNPUDQ
Run—Jog	NSLNPJRQ
Auto—Hand	NSLNP AHQ
Off—Remote	NSLNPORQ
Off—On	NSLNPOFON

Description	Suffix
Three Position Selection Switch Nameplates	
Forward—Off—Reverse	NSLNPFORQ
Hand—Off—Auto	NSLNP HOAQ
Run—Off—Jog	NSLNP ROJQ
Blank	NSLNPB3
Reverse—Off—Forward	NSLNP ROFQ
Auto—Off—Hand	NSLNP AO HQ
Hand—Off—Remote	NSLNP HORQ
1—Off—2	NSLNP102Q
Jog—Off—Run	NSLNPJORQ
Stop—Run—Start	NSLNP SRSQ
Local—Off—Remote	NSLNP LORQ
Momentary Push Buttons	
<i>For Rectangular Weatherboot Style Only (not for round weatherboot style)</i>	
Blank ②	NSNPBQ
Forward	NSNPFWQ
Jog	NSNPJOGQ
Run	NSNPRUNQ
Stop ②	NSNPSPQ
Start ②	NSNPSTQ
Down	NSNPDOWNQ
Fast	NSNPFASTQ
Slow	NSNPSLOWQ
Raise	NSNPRAISEQ
Lower	NSNPLOWERQ
Reset	NSNPRESETQ
Off	NSNP OFFQ
On	NSNPONQ
Reverse	NSNPREVQ
Close	NSNPCLOSEQ
Open	NSNPOPENQ
Up	NSNPUPQ
Test	NSNPTESTQ
Low	NSNPLOWQ
High	NSNPHIGHQ

① No custom nameplates available.

② Included as standard (no need to use suffix).

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Push Button. Explosionproof, Dust-Ignitionproof

10 Amp, 600 Vac Max. for Heavy Duty Use Momentary Contact. Furnished with Internal Ground Screw.

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	Hub Size (Inches)	Description		Nameplate Marking	Catalog Number	
					Dead-End	Feed-Thru
1-Gang ①						
	1/2	1 Circuit Universal		Start/Stop	NEDS1184	NEDSC1184
	3/4				NEDS2184	NEDSC2184
	1				NEDS3184	NEDSC3184
	1/2	2 Circuits Universal		Start/Stop	NEDS1190	NEDSC1190
	3/4				NEDS2190	NEDSC2190
	1				NEDS3190	NEDSC3190
Red Mushroom Head — Maintained Contact — Emergency Stop Nameplate						
	1/2	1 Circuit Universal		Emergency Stop	NEDS1714	NEDSC1714
	3/4				NEDS2714	NEDSC2714
	1				NEDS3714	NEDSC3714
2-Gang ①						
	1/2	2 Circuit Universal		Start/Stop	NEDS1284	NEDSC1284
	3/4				NEDS2284	NEDSC2284
	1				NEDS3284	NEDSC3284
	1/2	4 Circuits Universal		Start/Stop	NEDS1290	NEDSC1290
	3/4				NEDS2290	NEDSC2290
	1				NEDS3290	NEDSC3290

① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - SA.

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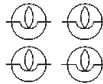
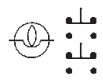
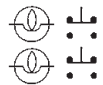
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NEMA 3, 7CD, 9EFG

	Hub Size (Inches)	Description ②	Nameplate Marking	Catalog Number Dead-End	Feed-Thru	
1-Gang ①						
	1/2	One Pilot Light		NEFS1524	NEFSC1524	
	3/4			NEFS2524	NEFSC2524	
	1			NEFS3524	NEFSC3524	
	1/2	Two Pilot Lights		NEFS1561	NEFSC1561	
	3/4			NEFS2561	NEFSC2561	
	1			NEFS3561	NEFSC3561	
2-Gang ①						
	1/2	Two Pilot Lights		NEFS1624	NEFSC1624	
	3/4			NEFS2624	NEFSC2624	
	1			NEFS3624	NEFSC3624	
	1/2	Four Pilot Lights		—	NEFSC1661	
	3/4			NEFS2661	NEFSC2661	
	1			NEFS3661	NEFSC3661	
1-Gang ①						
	1/2	1 Circuit Universal and 1 Pilot Light		Specify	NEFD1473	NEFDC1473
	3/4				NEFD2473	NEFDC2473
	1				NEFD3473	NEFDC3473
	1/2	2 Circuits Universal and 1 Pilot Light		Specify	NEFD1234	NEFDC1234
	3/4				NEFD2234	NEFDC2234
	1				NEFD3234	NEFDC3234
2-Gang ①						
	1/2	2 Circuits Universal and 1 Pilot Light		Specify	NEFD1471	NEFDC1471
	3/4				NEFD2471	NEFDC2471
	1				NEFD3471	NEFDC3471
	1/2	2 Circuits Universal and 2 Pilot Lights		Specify	NEFD1868	NEFDC1868
	3/4				NEFD2868	NEFDC2868
	1				NEFD3868	NEFDC3868

① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - **SA**.

② Pilot Lights furnished with 6 Watt, 120 Vac 6S6 lamp and Red Jewel - for other colors, add color suffix for each pilot light: Amber - **J6**, Blue - **J11**, Clear - **J10**, Green - **J3**, Opal - **J8**.

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Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Selector Switches. Explosionproof, Dust-Ignitionproof

10 Amp, 600 Vac Max. for Heavy Duty Use Momentary Contact. Furnished with Internal Ground Screw.

NEC:

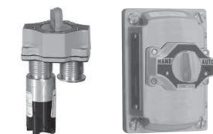
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Selector Switches	Hub Size (Inches)	Description	Left	Diagram Center	Right	Dead—End	Catalog Number Feed—Thru
2 Position Selector Switches — 1-Gang ① ③ — Maintained Contact							
	1/2	2 Position, 2 Circuit		None		NEDS11271	NEDSC11271
	3/4					NEDS21271	NEDSC21271
	1					NEDS31271	NEDSC31271
	1/2	2 Position, 4 Circuits		None		NEDS11272	NEDSC11272
	3/4					NEDS21272	NEDSC21272
	1					NEDS31272	NEDSC31272
Nameplate: Hand—Auto							

3 Position Selector Switches — 1-Gang ① ③ — Maintained Contact							
	1/2	3 Position, 2 Circuit				NEDS11273	NEDSC11273
	3/4					NEDS21273	NEDSC21273
	1					NEDS31273	NEDSC31273
	1/2	3 Position, 4 Circuits				NEDS11274	NEDSC11274
	3/4					NEDS21274	NEDSC21274
	1					NEDS31274	NEDSC31274
Nameplate: Hand—Off—Auto							

Thread Size			Diagram			Switch Catalog Number	
(In., NPSM)	Description	Left	Center	Right		Assembly Only	Assembly w/Cover

EDKB Selector Switch Operator/Switch Assembly ② ③ — Maintained Contact



Nameplate: Hand—Auto



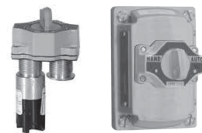
Nameplate: Hand—Off—Auto

2 Position							
1/2	2 Position, 2 Circuit		None		NSSBA1-2Q	NEDKB-12	
1/2	2 Position, 4 Circuits		None		NSSBA2-2Q	NEDKB-35	
3 Position							
1/2	3 Position, 2 Circuit				NSSBA1-3Q	NEDKB-102	
1/2	3 Position, 4 Circuit				NSSBA2-3Q	NEDKB-345	

EDKB Selector Switch Operator/Switch Assembly ② — Modified Operations — 3 Position

Momentary contact right position. Spring return to center. Maintained contact left position.

Note: Standard legend plate reads Hand/Off/Auto

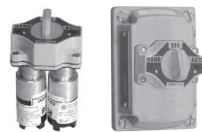


2 Circuit

1/2	3 Position, 2 Circuit				NSSBAS-1-3	NEDKB-102-S634	
1/2	3 Position, 4 Circuits				NSSBAS-2-3	NEDKB-345-S634	

Momentary contact left position. Spring return to center. Maintained contact right position.

Note: Standard legend plate reads Auto/Off/Hand



4 Circuit

1/2	3 Position, 2 Circuit				NSSBASL-1-3	NEDKB-102-S635	
1/2	3 Position, 4 Circuits				NSSBASL-2-3	NEDKB-345-S635	

Momentary contact right position. Spring return to center. Maintained contact left position.

Note: Standard legend plate reads Stop/Run/Start

1/2	3 Position, 4 Circuits				NSSBASRA-2-3	NEDKB-345-S636	
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① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - SA.

② For Aluminum Cover only, add suffix - A.

③ Supplied as standard with maintained contact selector switches. Specify catalog number from nameplate listings if other than standard nameplate is desired.

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Selector Switches Nameplates ①

Two Position Nameplates				Three Position Nameplates	
	Forward—Reverse	NSLNP-FRQ	Forward—Off—Reverse	NSLNP-FORQ	
	Hand—Auto	NSLNP-HAQ	Hand—Off—Auto	NSLNP-HOAQ	
	On—Off	NSLNP-OO	Run—Off—Jog	NSLNP-ROJQ	
	Start—Stop	NSLNP-SS	Blank	NSLNP-B3	
	Blank	NSLNP-BQ	Reverse—Off—Forward	NSLNP-ROFQ	
	Up—Down	NSLNP-UDQ	Auto—Off—Hand	NSLNP-AOHQ	
	Run—Job	NSLNP-RJQ	Hand—Off—Remote	NSLNP-HORQ	
	Auto—Hand	NSLNP-AHQ	1—Off—2	NSLNP-102Q	
	Off—Remote	NSLNP-ORQ	Jog—Off—Run	NSLNP-JORQ	
	Local Remote	NSLNP-LRQ	Stop—Run—Start	NSLNP-SRSQ	
	Off—On	NSLNP-OFON	Local—Off—Remote	NSLNP-LORQ	

Selector Switch Locking Devices — Permit Locking In Any Position

Description	Catalog Number
 Two or Three Positions	NSBL-3-Q

① Custom nameplates not available.

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Sealed Rocker Arm and Push Button. Explosionproof, Dust-Ignitionproof

10 Amp, 600 Vac Max. for Heavy Duty Use Momentary Contact. Furnished with Internal Ground Screw.

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Class III
NEMA 3, 7CD, 9EFG

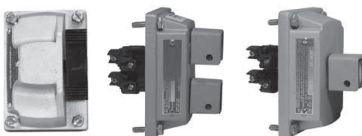
Rocker Arm Handle

		Hub Size (Inches)	Description	Contact Arrangement	Nameplate Marking	Catalog Number ①	
						Dead-End	Feed-Thru
1-Gang — Malleable Iron Body and Cover ②							
	1 Circuit	1/2	1 Circuit Universal		Specify	NEDS1596	NEDSC1596
		3/4				NEDS2596	NEDSC2596
		1				NEDS3596	NEDSC3596
	2 Circuits	1/2	2 Circuits Universal		Specify	NEDS1194	NEDSC1194
		3/4				NEDS2194	NEDSC2194
		1				NEDS3194	NEDSC3194
2-Gang — Malleable Iron Body and Cover ②							
	2 Circuits	1/2	2 Circuits Universal		Specify	—	NEDSC1696
		3/4				NEDS2696	NEDSC2696
		1				NEDS3696	NEDSC3696
	4 Circuits	1/2	4 Circuits Universal		Specify	—	NEDSC1294
		3/4				NEDS2294	NEDSC2294
		1				NEDS3294	NEDSC3294

Single Push Button

		Hub Size (Inches)	Description	Contact Arrangement	Catalog Number ①	
					Dead-End	Feed-Thru
	Nameplate: Start/Stop	1-Gang				
		1/2	2 Circuits		NEDS1192	NEDSC1192
		3/4	Universal		NEDS2192	NEDSC2192
1	Momentary	NEDS3192	NEDSC3192			
	Nameplate: Emergency Stop	1/2	2 Circuits		NEDS1192UM1	NEDSC1192UM1
		3/4	Universal Red		NEDS2192UM1	NEDSC2192UM1
		1	Maintained		NEDS3192UM1	NEDSC3192UM1
Momentary						
Maintained Mushroom Head						

Cover Assemblies ②

			Description	Contact Arrangement	Nameplate Marking	Catalog Number Cover With Device
			1 Circuit Universal		Specify	EDKBRU1
			2 Circuits Universal		Specify	EDKBRU2
			1 Circuit Universal		Specify	EDKBU1L
			1 Circuit Universal		Specify	EDKBUM1L
			2 Circuits Universal		Specify	EDKBU2L
			2 Circuit Universal		Specify	EDKBDPB
	EDKBRU2	EDKBU2L	EDKBDPB	2 Circuits Universal (Maintained)		Specify

① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - SA.

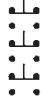
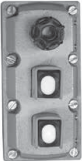
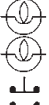
② For Aluminum Cover only, add suffix - A.

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

For Optitrol™ Bodies

NEC:
Class I, Division 1, Groups C, D
Class I, Division 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

Covers

		Description	Contact Arrangement	Nameplate Marking	Catalog Number ①
		Complete with Push Button — Factory Sealed — Momentary Contact <i>For use on standard EDS bodies (furnished with 4 stainless steel captive bolts)</i>			
NEDKB-U1		1 Circuit Universal		Start/Stop	NEDKB-U1
		2 Circuit Universal		Start/Stop	NEDKB-U2
		Complete with Mushroom Head Push Button — Factory Sealed — Maintained Contact <i>For use on standard EDS bodies</i>			
NEDKB-UM1		1 Circuit Universal (Red)		Emergency Stop	NEDKB-UM1
		2 Circuit Universal (Red)		Specify	NEDKB-UM2
		Complete with Pilot Lights — Factory Sealed — Momentary Contact <i>6 Watt 120 Vac, Type 6S6 Lamp. For use on standard EDS bodies (furnished with 4 stainless steel captive bolts)</i>			
NEDKB-J1U2		One pilot light (red jewel ②) and two universal push buttons		Specify	NEDKB-J1U2
		One pilot light (red jewel ②) and one universal push button		Specify	NEDKB-J1U1
		One pilot light (red jewel ②) and one universal push button—dust cap		Specify	NEDKB-J1DU1
NEDKB-J1		One pilot light (red jewel ②)		Specify	NEDKB-J1
		Two pilot lights (red jewel ②)		Specify	NEDKB-J2
		Complete with Pilot Lights and Push Buttons — Factory Sealed <i>For use on standard EDS bodies (furnished with 8 stainless steel captive bolts)</i>			
NEDKL-U3		3 Circuits Universal		Start/Stop	NEDKL-U3
		Three Pilot Lights (red jewels ②)			NEDKL-J3
		One Pilot Light (red jewel ②) and two universal circuits		Specify	NEDKL-J1U2
NEDKL-J1U2		Two Pilot Lights (red jewels ②) and one universal circuit		Specify	NEDKL-J2U1

① For Aluminum Cover only, add suffix - A.

② For other colors, add color suffix for each pilot light: Amber—JGBA, Blue—JGBB, Clear—JGBC, Green—JGBG, Opal—JGBO.

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Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

For Optitrol™ Bodies Only

NEC:
 Class I, Division 1, Groups C, D
 Class I, Division 2, Groups B, C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 3, 7CD, 9EFG

Covers ② Only — for use on standard Optitrol bodies
 Supplied with 4 stainless steel captive bolts ③.

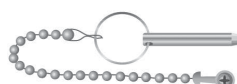
		Description	Catalog Number ①
 NEDSK-1J	 NEDSK-2J	Push Button and Pilot Light Covers — 3/4" Tapped Openings One opening: one push button or one pilot light Two openings: two push buttons, two pilot lights, or one of each Three openings: three device, three push buttons or three pilot lights, or combination of push button(s) and pilot light(s)	NEDSK-1J NEDSK-2J NEDSKL-3PB ③
	 NEDSKL-3PB		
		Push Button or Selector Switch Cover — 1/2" Tapped Openings Two openings: selector switch or two push buttons (side by side)	NEDSK-2SP
 NEDSK-1JSS	 NEDSK-B	Push Button, Pilot Light or Selector Switch Covers — 3/4" top and 1/2" Bottom Tapped Openings One top and two bottom openings: one pilot light, two push buttons (side by side); one pilot light, one selector switch. Blank	NEDSK-1JSS NEDSK-B
		Nameplate Mounting Bracket <i>Mount bracket between cover screws and cover. Do not mount bracket between ground joint flame path between cover and backbox.</i> Bracket with blank silver/black nameplate To order bracket with control station, add suffix -NPBRKT to end of catalog number. To order engraved nameplates, add desired markings after catalog number. Maximum of 2 lines with 12 characters (including spaces) per line.	NNPBRKT-CONT

① For Aluminum Cover only, add suffix - **A**.
 ② Must be used with Optitrol Series backboxes.
 ③ Catalog number EDSKL-3PB supplied with 8 stainless steel non-captive bolts.

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Replacement Parts and Accessories

NEC:
Class I, Division 1, Groups C, D
Class I, Division 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

Description		Contact Arrangement	Catalog Number	
Push Button — Factory Sealed — Momentary Contact				
 SPBB-U1-Q	10 Amp 600 Vac Heavy Duty 1/2" thread size (NPSM). Furnished with 1/2" to 3/4" enlarger, Weather Boot, Guard, Start, Stop and Blank Nameplates.			
	Single Push Button	Universal	 NSPBB-U1-Q	
 SPBB-U2DBL	Double Push Button	Universal	 NSPBB-U2DBL	
Push Button — Red Mushroom Head — Factory Sealed — Maintained Contact				
	10 Amp 600 Vac Heavy Duty 1/2" thread size (NPSM). Furnished with 1/2" to 3/4" enlarger and Emergency Stop Nameplate (guard not furnished).			
	Single Push Button	Universal	 NSMPB-U1-Q	
Rectangular Button with Weather Boot				
	Furnished with Start, Stop and Blank Nameplates.		NNBN-WB	
Nameplates for Rectangular Push Buttons				
 SNP-OFF-Q	Blank	NSNP-B-Q	Off	NSNP-OFF-Q
	Forward	NSNP-FWD-Q	On	NSNP-ON-Q
 SNP-ON-Q	Jog	NSNP-JOG-Q	Reverse	NSNP-REV-Q
	Run	NSNP-RUN-Q	Open	NSNP-OPEN-Q
	Stop	NSNP-SP-Q	Close	NSNP-CLOSE-Q
	Start	NSNP-ST-Q	Up	NSNP-UP-Q
	Down	NSNP-DOWN-Q	Test	NSNP-TEST-Q
	Fast	NSNP-FAST-Q	Low	NSNP-LOW-Q
	Slow	NSNP-SLOW-Q	High	NSNP-HIGH-Q
	Raise	NSNP-RAISE-Q		
	Lower	NSNP-LOWER-Q		
	Reset	NSNP-RESET-Q		
Push Button Replacement Locking Guards — Glass Reinforced Polypropylene — Gasketed				
 Maintained Mushroom Head Switch Guard	Has hole for 1/4" hasp.			
	Single Guard (Maintained Mushroom Head Switch)		NSMPB-LG	
 Single Guard	Single Guard		NNPB-LG1	
	Double Guard		NNPB-LG2	
 Double Guard	Single Guard (No Lockout Holes)		NNPB-LG1-LL	
	Double Guard (No Lockout Holes)		NNPB-LG2-LL	
Push Button Securing Rod with Chain — Stainless Steel				
	For use with Single Guard Only		NNBL-SR	
Mushroom Head Button with Weather Boot for Use with Momentary Contact — Gasketed				
	Black		NNMRB-BL	
	Green		NNMRB-GR	
	Red		NNMRB-RE	

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CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Replacement Parts and Accessories

NEC:
Class I, Division 1, Groups C, D
Class I, Division 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

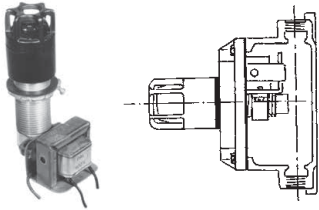
Description		Catalog Number
Mushroom Head Push Button		
  MNPESTPQ	For Use with Mushroom Head Button — Maintained Contact — Solid-Colored Nonmetallic Red	NNMRBM-RE
	Nameplates For Mushroom Head Push Button For Momentary and Maintained Start NMNPSTQ Stop NMNPSPQ Emergency Stop NMNPESTPQ Blank NMNPBQ	
Pilot Light — Factory Sealed		
 Pilot Light	Incandescent Furnished with 6S6 120 Vac incandescent lamp, jewel and guard. Has 457 mm (18") long, type SFF-2 pigtail leads; +150 °C (+302 °F). Body has 3/4" straight thread (NPSM).	
	With Red Jewel NSPLSREB With Green Jewel NSPLSGRB With Amber Jewel NSPLSAMB With Blue Jewel NSPLSBLB With Clear Jewel NSPLSCLB With Opal Jewel NSPLSOPB	
 Chamber Only	LED Furnished with candelabra base 120 Vac LED, jewel and guard. Has 457 mm (18") long, type SFF-2 pigtail leads; +150 °C (+302 °F). Body has 3/4" straight thread (NPSM).	
	With Red LED, Clear Jewel NSPLNSREB With Green LED, Clear Jewel NSPLNSGRB With Amber LED, Clear Jewel NSPLNSAMB	
	Chamber Only (Same as above, less jewel, guard and lamp)	NSPLSSCB
Pilot Light Jewel/Guard Assembly		
	The below catalog numbers indicate an assembly of the Pilot Light Jewels and Guards. Jewels and Guards are not available as separate items.	
	Amber Jewel/Guard NJGBNA Blue Jewel/Guard NJGBNB Clear Jewel/Guard NJGBNC Green Jewel/Guard NJGBNG Opal Jewel/Guard NJGBNO Red Jewel/Guard NJGBNR	
Replacement Bulbs		
 NEPL-B6W	Clear Bulbs Furnished with candelabra base. 6 Watt, 120 Vac Type 6S6	
	LED Replacements Furnished with candelabra base. 120 Vac, 10 mA	
 NEPLLEDR	Red LED	NEPLLEDR
	Green LED	NEPLLEDG
	Amber LED	NEPLLEDA

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Replacement Parts and Accessories

NEC:

Class I, Division 1, Groups C, D
 Class I, Division 2, Groups B, C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III

	Primary Vac	Lamp Vac	Suffix
Transformer			
	Add Suffix as listed below. Transformer clamps directly to pilot light barrel. Only one pilot light transformer assembly per one gang body.		
	220	120	S801
	277	120	S802
	440	120	S803
	550	120	S804

	Description	Catalog Number
Nameplates for Pilot Light		
 LNPRUNQ	Blank	NLNPBQ
	Forward	NLNPFWDQ
	Jog	NLNPJOGQ
	Run	NLNPRUNQ
	Stop	NLNPSQ
	Start	NLNPRSTQ
	Down	NLNPDOWNQ
	Fast	NLNPFASTQ
	Slow	NLNPSLOWQ
	Raise	NLNPRAISEQ
	Lower	NLNPLOWERQ
	Reset	NLNPRESETQ
	Off	NLNPOFFQ
	On	NLNPNQ
	Reverse	NLNPREVQ
	Close	NLNPCLOSEQ
	Open	NLNPOPENQ
	Up	NLNPUQ
	Test	NLNPTSTQ
	Low	NLNPLWQ
	High	NLNPHQ

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CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Mounting Bodies. Explosionproof, Dust-Ignitionproof

NEC:
Class I, Division 1, Groups C, D
Class I, Division 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

		Catalog Number		
	Type	Hub Size (Inches)	Malleable Iron	Aluminum
1-Gang				
	Dead-End	1/2	NEDS171	NEDS171-SA
		3/4	NEDS271	NEDS271-SA
		1	NEDS371	NEDS371-SA
	Feed-Thru	1/2	NEDSC171	NEDSC171-SA
		3/4	NEDSC271	NEDSC271-SA
		1	NEDSC371	NEDSC371-SA
2-Gang				
	Dead-End	1/2	NEDS172	NEDS172-SA
		3/4	NEDS272	NEDS272-SA
		1	NEDS372	NEDS372-SA
	Feed-Thru	1/2	NEDSC172	NEDSC172-SA
		3/4	NEDSC272	NEDSC272-SA
		1	NEDSC372	NEDSC372-SA
3-Device				
	Dead-End	1/2	NEDS147	NEDS147-SA
		3/4	NEDS247	NEDS247-SA
		1	NEDS347	NEDS347-SA
	Feed-Thru	1/2	NEDSC147	NEDSC147-SA
		3/4	NEDSC247	NEDSC247-SA
		1	NEDSC347	NEDSC347-SA
Tandem ①				
	Dead-End	1/2	NEDS177	NEDS177-SA
		3/4	NEDS277	NEDS277-SA
		1	NEDS377	NEDS377-SA
	Feed-Thru	1/2	NEDSC177	NEDSC177-SA
		3/4	NEDSC277	NEDSC277-SA
		1	NEDSC377	NEDSC377-SA

① For tandem bodies, external seals must be installed within 1.5 meters (5 feet) of each conduit entrance for Class I, Groups C and D.

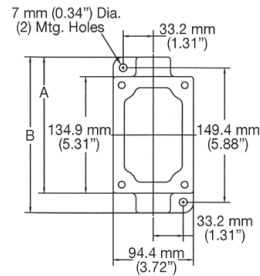
Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

Mounting Body

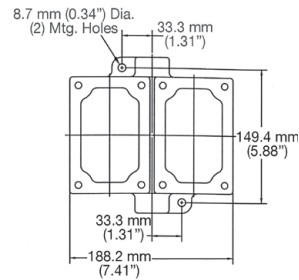
NEC:

Class I, Division 1, Groups C, D
 Class I, Division 2, Groups B, C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 3, 7CD, 9EFG

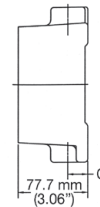
1-Gang



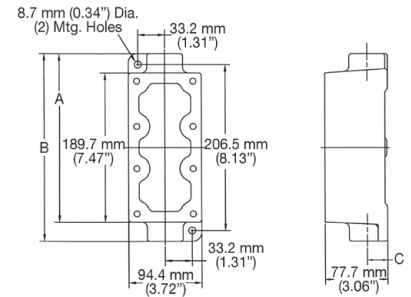
2-Gang



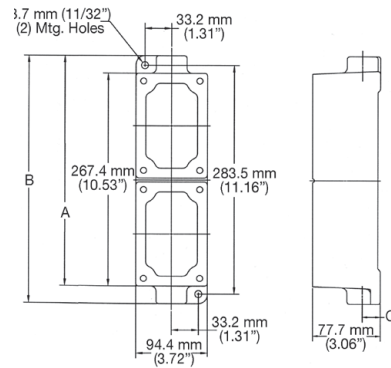
1- and 2-Gang Side View



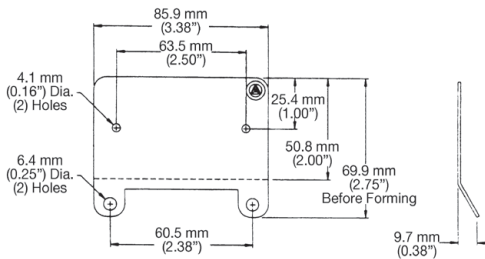
3-Device



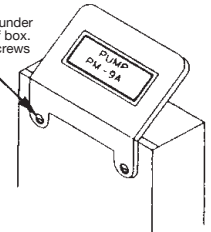
Tandem



NPBRKT Nameplate Mounting Bracket



Secure bracket under cover screws of box. Torque cover screws to 35" - lbs.

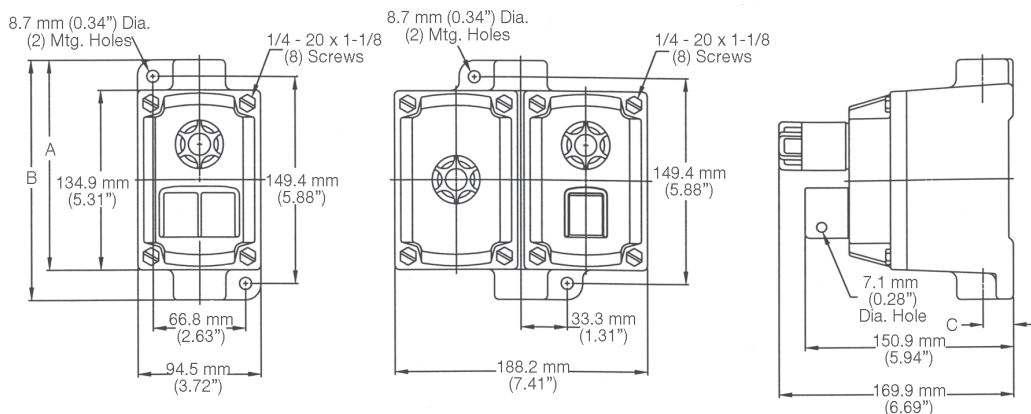


Unilet Type	Hub Size (Inches)	Dimensions in Millimeters (Inches)		
		A	B	C
1-Gang	1/2	153.9 (6.06)	173.0 (6.81)	19.1 (0.75)
	3/4	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
2-Gang	1/2	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	3/4	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
3-Device	1/2	211.8 (8.34)	233.4 (9.19)	25.4 (1.00)
	3/4	211.8 (8.34)	233.4 (9.19)	25.4 (1.00)
	1	211.8 (8.34)	233.4 (9.19)	25.4 (1.00)
Tandem	1/2	287.3 (11.31)	309.1 (12.09)	22.4 (0.88)
	3/4	287.3 (11.31)	309.1 (12.09)	22.4 (0.88)
	1	290.6 (11.44)	312.7 (12.31)	25.4 (1.00)

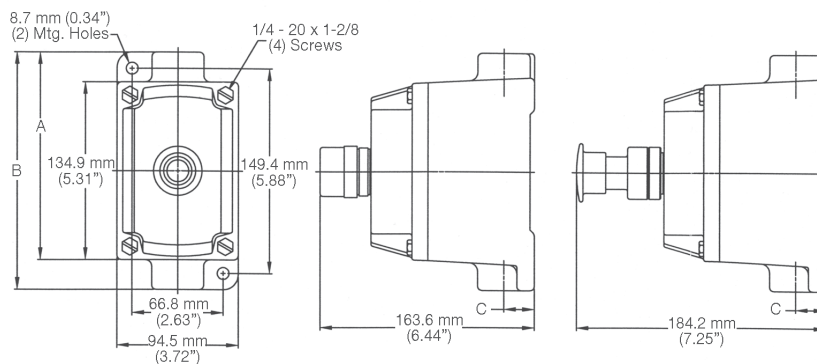
Optitrol™ Series Factory Sealed Control Stations and Pilot Lights

NEC:
Class I, Division 1, Groups C, D
Class I, Division 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 3, 7CD, 9EFG

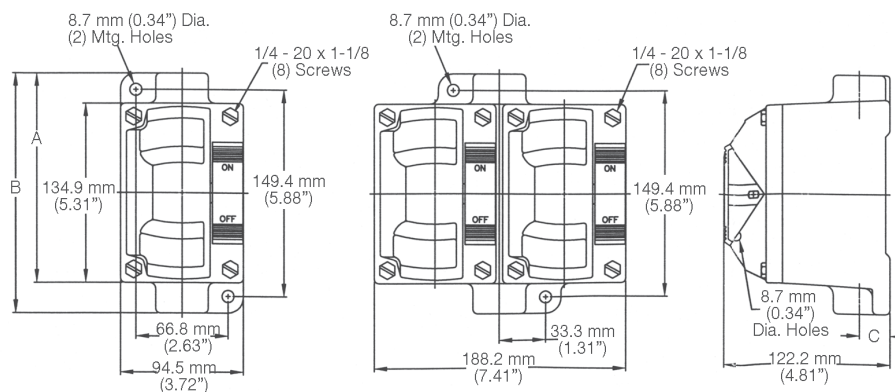
1- and 2-Gang Combination Pilot Light and Push Button



1-Gang Dust Cap Push Button and Maintained Push Button



1- and 2-Gang Rocker Arm Push Button



Unilet Type	Hub Size (Inches)	Dimensions in Millimeters (Inches)		
		A	B	C
1-Gang	1/2	153.9 (6.06)	173.0 (6.81)	19.1 (0.75)
	3/4	153.9 (6.06)	165.4 (6.51)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
2-Gang	1/2 and 3/4	153.9 (6.06)	165.4 (6.51)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)

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