

SBN Pendant Pushbutton Station

Technical Manual



Part Number: 126-11176 R2 January 2016

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Preface and Safety

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Product Safety Information

Magnetek, Inc. (Magnetek) offers a broad range of radio remote control products, control products and adjustable frequency drives, industrial braking systems, and power delivery products for material handling applications. This manual has been prepared by Magnetek to provide information and recommendations for the installation, use, operation and service of Magnetek's material handling products and systems (Magnetek Products). Anyone who uses, operates, maintains, services, installs or owns Magnetek Products should know, understand and follow the instructions and safety recommendations in this manual for Magnetek Products.

The recommendations in this manual do not take precedence over any of the following requirements relating to cranes, hoists, lifting devices or other equipment which use or include Magnetek Products:

- Instructions, manuals, and safety warnings of the manufacturers of the equipment where the Magnetek Products are used,
- Plant safety rules and procedures of the employers and the owners of the facilities where the Magnetek Products are being used,
- Regulations issued by the Occupational Health and Safety Administration (OSHA),
- Applicable local, state, provincial, or federal codes, ordinances, standards and requirements, or
- Safety standards and practices for the industries in which Magnetek Products are used.

This manual does not include or address the specific instructions and safety warnings of these manufacturers or any of the other requirements listed above. It is the responsibility of the owners, users and operators of the Magnetek Products to know, understand and follow all of these requirements. It is the responsibility of the employer to make its employees aware of all of the above listed requirements and to make certain that all operators are properly trained.

No one should use Magnetek Products prior to becoming familiar with and being trained in these requirements and the instructions and safety recommendations for this manual.

Product Warranty Information

Magnetek, hereafter referred to as Company, assumes no responsibility for improper programming of a device (such as a drive or radio) by untrained personnel. A device should only be programmed by a trained technician who has read and understands the contents of the relevant manual(s). Improper programming of a device can lead to unexpected, undesirable, or unsafe operation or performance of the device. This may result in damage to equipment or personal injury. Company shall not be liable for economic loss, property damage, or other consequential damages or physical injury sustained by the purchaser or by any third party as a result of such programming. Company neither assumes nor authorizes any other person to assume for Company any other liability in connection with the sale or use of this product.

For information on Magnetek's product warranties by product type, please visit www.magnetek.com.

DANGER, WARNING, CAUTION, and NOTE Statements

Read and understand this manual before installing, operating, or servicing this product. Install the product according to this manual and local codes.

The following conventions indicate safety messages in this manual. Failure to heed these messages could cause fatal injury or damage products and related equipment and systems.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: A NOTE statement is used to notify people of installation, operation, programming, or maintenance information that is important, but not hazard-related.

Product Technical Specifications

Features

- · Light weight and slim enclosures
- Variable composition stations
- Removable button caps and mark plates

Pendant Electrical Rating

- General Use: Power rating: 3A, 250VAC, 50/60 Hz
- Heavy Duty: A300/AC-15
 - o Rating codes for a-c control-circuit contacts at 50/60 Hz:
 - Make 60A, Break 6A at 120V
 - Make 30A, Break 3A at 240V

Pendant Environmental Rating

• Ambient Air Temperature: Min. of -5°C (no freezing); Max. of 40°C

Durability

- Enclosure
 - o Material: Polycarbonate
 - o Color: Yellow (Munsell 2.5Y8/12)
 - UV rated outdoor application

Agency Approvals

- UL508
- CSA C22.2 No. 14

Cable Specifications for Pendant

Applicable Wire: AWG 16-18 (0.81-1.32mm²)

Wired Pendant Cable Specifications

- AWG 16, 65/34 bare copper
- PVC yellow insulation
- Diameter for strain relief: 1/16" diameter, 7x7 galvanized aircraft cable
- UL VW-1, 600V
- CSA FT-1, 600V
- Temperature: -40°C to 90°C

Standard Pendant Station Information Catalog Numbers

2-Button	2-Button - Momentary On/Off	SBN-2-WB
	2-Button - Maintained On/Off	SBN-2-WH
	2-Button - All Single-Speed	SBN-2-WA
	2-Button - All Two-Speed	SBN-2-WS
	2-Button - All Three-Speed	SBN-2-WT
3-Button	3-Button - Single-Speed with Emergency Stop (Rotate to Release)	SBN-3-WE
	3-Button - Two-Speed with Emergency Stop (Rotate to Release)	SBN-3-WES
	3-Button - Three-Speed with Emergency Stop (Rotate to Release)	SBN-3-WET
4-Button	4-Button - (2) Single-Speed with Momentary On/Off	SBN-4-WB
	4-Button - (2) Two-Speed with Momentary On/Off	SBN-4-WBS
	4-Button - (2) Three-Speed with Momentary On/Off	SBN-4-WBT
	4-Button - (2) Single-Speed with Maintained On/Off	SBN-4-WH
	4-Button - (2) Two-Speed with Maintained On/Off	SBN-4-WHS
	4-Button - (2) Three-Speed with Maintained On/Off	SBN-4-WHT
	4-Button - All Single-Speed	SBN-4-WA
	4-Button - All Two-Speed	SBN-4-WS
	4-Button - All Three-Speed	SBN-4-WT
5-Button	5-Button - (2) Single-Speed with Emergency Stop (Rotate to Release)	SBN-5-WE
	5-Button - (2) Two-Speed with Emergency Stop (Rotate to Release)	SBN-5-WES
	5-Button - (2) Three-Speed with Emergency Stop (Rotate to Release)	SBN-5-WET
6-Button	6-Button - (4) Single-Speed with Momentary On/Off	SBN-6-WB
	6-Button - (4) Two-Speed with Momentary On/Off	SBN-6-WBS
	6-Button - (4) Three-Speed with Momentary On/Off	SBN-6-WBT
	6-Button - (4) Single-Speed with Maintained On/Off	SBN-6-WH
	6-Button - (4) Two-Speed with Maintained On/Off	SBN-6-WHS
	6-Button - (4) Three-Speed with Maintained On/Off	SBN-6-WHT
	6-Button - All Single-Speed	SBN-6-WA
	6-Button - All Two-Speed	SBN-6-WS
	6-Button - All Three-Speed	SBN-6-WT

7-Button	7-Button - (3) Single-Speed with Emergency Stop (Rotate to Release)	SBN-7-WE
	7-Button - (3) Two-Speed with Emergency Stop (Rotate to Release)	SBN-7-WES
	7-Button - (3) Three-Speed with Emergency Stop (Rotate to Release)	SBN-7-WET
8-Button	8-Button - (6) Single-Speed with Momentary On/Off	SBN-8-WB
	8-Button - (6) Two-Speed with Momentary On/Off	SBN-8-WBS
	8-Button - (6) Three-Speed with Momentary On/Off	SBI-8-WBT
	8-Button - (6) Single-Speed with Maintained On/Off	SBN-8-WH
	8-Button - (6) Two-Speed with Maintained On/Off	SBN-8-WHS
	8-Button - (6) Three-Speed with Maintained On/Off	SBI-8-WHT
	8-Button - All Single-Speed	SBN-8-WA
	8-Button - All Two-Speed	SBN-8-WS
	8-Button - All Three-Speed	SBI-8-WT
8-Button	8-Button Tandem - (6) Single-Speed with Momentary On/Off	SBIT-8-WB
Tandem	8-Button Tandem - (6) Two-Speed with Momentary On/Off	SBIT-8-WBS
	8-Button Tandem - (6) Three-Speed with Momentary On/Off	SBIT-8-WBT
	8-Button Tandem - (6) Single-Speed with Maintained On/Off	SBIT-8-WH
	8-Button Tandem - (6) Two-Speed with Maintained On/Off	SBIT-8-WHS
	8-Button Tandem - (6) Three-Speed with Maintained On/Off	SBIT-8-WHT
	8-Button Tandem - All Single-Speed	SBIT-8-WA
	8-Button Tandem - All Two-Speed	SBIT-8-WS
	8-Button Tandem - All Three-Speed	SBIT-8-WT
10-Button	10-Button - (8) Single-Speed with Momentary On/Off	SBN-10-WB
	10-Button - (8) Two-Speed with Momentary On/Off	SBN-10-WBS
	10-Button - (8) Three-Speed with Momentary On/Off	SBN-10-WBT
	10-Button - (8) Single-Speed with Maintained On/Off	SBN-10-WH
	10-Button - (8) Two-Speed with Maintained On/Off	SBN-10-WHS
	10-Button - (8) Three-Speed with Maintained On/Off	SBN-10-WHT
	10-Button - All Single-Speed	SBN-10-WA
	10-Button - All Two-Speed	SBN-10-WS
	10-Button - All Three-Speed	SBN-10-WT

12-Button	12-Button - (10) Single-Speed with Momentary On/Off	SBN-12-WB
	12-Button - (10) Two-Speed with Momentary On/Off	SBN-12-WBS
	12-Button - (10) Three-Speed with Momentary On/Off	SBN-12-WBT
	12-Button - (10) Single-Speed with Maintained On/Off	SBN-12-WH
	12-Button - (10) Two-Speed with Maintained On/Off	SBN-12-WHS
	12-Button - (10) Three-Speed with Maintained On/Off	SBN-12-WHT
	12-Button - All Single-Speed	SBN-12-WA
	12-Button - All Two-Speed	SBN-12-WS
	12-Button - All Three-Speed	SBN-12-WT

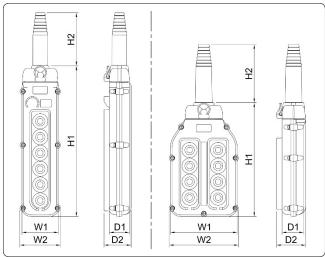
Standard Configuration Labeling

2-Button	Standard Button Labeling for Power Pendant Configuration 2-Button 3-Button 4-Button 5-Button 6-Button 7-Button 8-Button 10-Button 12-Button									
ON	E-Stop Button	ON	E-Stop Button	ON	E-Stop Button	ON	ON	ON		
OFF	UP	OFF	UP	OFF	UP	OFF	OFF	OFF		
	DOWN	UP	DOWN	UP	DOWN	UP	UP	UP		
		DOWN	RIGHT	DOWN	RIGHT	DOWN	DOWN	DOWN		
			LEFT	RIGHT	LEFT	RIGHT	UP	UP		
				LEFT	FWD	LEFT	DOWN	DOWN		
					REV	FWD	RIGHT	RIGHT		
						REV	LEFT	LEFT		
							FWD	FWD		
							REV	REV		
								CLOSE		
								OPEN		

				g for Moti				
2-Button	3-Button	4-Button	5-Button	6-Button	7-Button	8-Button	10-Button	12-Button
UP	START	UP	START	UP	START	UP	ON	ON
		0						
DOWN	(UP)	DOWN	(UP)	DOWN	(UP)	DOWN	OFF	(OFF)
	DOWN	RIGHT	DOWN	RIGHT	DOWN	UP	UP	UP
			DOWN	KIGHT	DOWN	OF OF	Or O	OF OF
		(LEFT)	RIGHT	(LEFT)	RIGHT	DOWN	DOWN	DOWN
			LEFT	FWD	LEFT	RIGHT	UP	UP
				(50)				
				REV	(FWD)	LEFT	DOWN	DOWN
					REV	FWD	RIGHT	RIGHT
						DEV		
						REV	LEFT	LEFT
							FWD	FWD
							DEV	DEV
							REV	REV
								CLOSE
								OPEN

Enclosure Dimensions and Weights





Enclosure		Cable size						
(Model)	Weight	H1	H2	W1	W2	D1	D2	diameter
2 Button (SBN-2-W)	0.7 lb.	134.5mm (5.30")						
3 Button (SBN-3-W)	0.8 lb.	167.5mm (6.59")	90.5mm (3.56")					8 - 17mm (0.315" - 0.669")
4 Button (SBN-4-W)	1.0 lb.	198.5mm (7.81")		69mm (2.72")	77mm (3.03")		51mm (2.01")	
5 Button (SBN-5-W)	1.1 lb.	229.5mm (9.04")	100.5mm					13 - 22mm
6 Button (SBN-6-W)	1.4 lb.	285.5mm (11.24")	(3.96")		38mm (1.50")		(0.512" - 0.866")	
7 Button (SBN-7-W)	1.5 lb.	315.5mm (12.42")						
8 Button (SBN-8-W)	1.6 lb.	345.5mm (13.60")	110.5mm (4.35")	110.5mm (4.35")	81mm (3.19")		51.5mm	15 - 25.5mm (0.591" - 1.004")
10 Button (SBN-10-W)	2.0 lb.	405.5mm (15.96")					(2.03")	
12 Button (SBN-12-W)	2.4 lb.	470.5mm (18.52")	120.5mm (4.74")	76mm (2.99")	84mm (3.31")			17 - 27.5mm (0.669" - 1.083")
8 Button Tandem (SBIT-8-W)	1.6 lb.	215.5mm (8.48")	110.5mm (4.35")	119mm (4.69")	131mm (5.16")	41mm (1.61")	55.5mm (2.19")	15 - 25.5mm (0.591" - 1.004")

Pendant Cables

Catalog Numbers

Description	Catalog Number
16 Awg 8 Conductor with External Strain Relief	R-16/8SR
16 Awg 12 Conductor with External Strain Relief	R-16/12SR
16 Awg 16 Conductor with External Strain Relief	R-16/16SR
16 Awg 24 Conductor with External Strain Relief	R-16/24SR
16 Awg 8 Conductor without Strain Relief	R-16/8
16 Awg 12 Conductor without Strain Relief	R-16/12
16 Awg 16 Conductor without Strain Relief	R-16/16
16 Awg 24 Conductor without Strain Relief	R-16/24

Spare Parts and Accessories Catalog Numbers

Description	Catalog Number
Single-Speed 2-Button Switch (NO per button)*	SBU-A-B
Single-Speed 2-Button Switch (2 NO per button)*	SBU-2A-B
Single-Speed 2-Button Switch (NO/NC per button)*	SBU-AB-B
Single-Speed 2-Button Switch (NO+NO/NC+NC per button)*	SBIU-2A2B-B
Two-Speed 2-Button Switch*	SBU-S-B
Three-Speed 2-Button Switch*	SBIU-T2-B
Momentary On/Off 2-Button Switch*	SBU-B-B
Maintained On/Off 2-Button Switch (NO)*	SBU-H2-B
Maintained On/Off 2-Button Switch (NO/NC)*	SBU-H3-B
Single-Speed 1-Button Switch (NO)*	SBIU-A1-B
Single-Speed 1-Button Switch (NO/NC)*	SBIU-AB1-B
2-Position Key Switch*	SBIU-KS2-B
4-Position Key Switch*	SBIU-KS4-B
2-Position Selector Switch*	SBIU-L2-B
3-Position Selector Switch (NC in Center Position)*	SBIU-L3-B
3-Position Selector Switch (NO in Center Position)*	SBIU-L3B-B
Mushroom Head Emergency Stop Device (Rotate to Release)*	SBIU-E-B
Buzzer Switch (Mounts in Upper Left)*	SBU-BzS-B
Red Pilot Light (Mounts in Upper Left)*	PLH-120R
Green Pilot Light (Mounts in Upper Left)*	PLH-120G
Yellow (Orange) Pilot Light (Mounts in Upper Left)*	PLH-120Y
Transparent Pilot Light (Mounts in Upper Left)*	PLH-120T
Buzzer Switch (Mounts in Standard hole)*	SBU-BzSX-B
Red Pilot Light (Mounts in Standard hole)*	PLX-120R
Green Pilot Light (Mounts in Standard hole)*	PLX-120G
Yellow (Orange) Pilot Light (Mounts in Standard hole)*	PLX-120Y
Transparent Pilot Light (Mounts in Standard hole)*	PLX-120T
2-Button Enclosure front & back with gasket and hardware	SBN-AE2
3-Button Enclosure front & back with gasket and hardware	SBN-AE3
4-Button Enclosure front & back with gasket and hardware	SBN-AE4
5-Button Enclosure front & back with gasket and hardware	SBN-AE5
6-Button Enclosure front & back with gasket and hardware	SBN-AE6
*see Appendix 1: Switch Schematics for more information.	
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	Catalog
Description	Number
7-Button Enclosure front & back with gasket and hardware	SBN-AE7
8-Button Enclosure front & back with gasket and hardware	SBN-AE8
8-Button Tandem Enclosure front & back with gasket and hardware	SBIT-AE8
10-Button Enclosure front & back with gasket and hardware	SBN-AE10
12-Button Enclosure front & back with gasket and hardware	SBN-AE12
Enclosure Top Assembly fits 2-6 Button pendants & 6.5-15.5mm Cables	SBN-ATOPA
Enclosure Top Assembly fits 2-6 Button pendants & 11.5-20.5mm Cables	SBN-ATOPB
Enclosure Top Assembly fits 7, 8, and 10 Button pendants & 13.5-24.0mm Cables	SBN-ATOPC
Enclosure Top Assembly fits 12 Button pendants & 15.5-26.0mm Cables	SBN-ATOPD
Cable Armor only, fits 2-6 Button pendants & 6.5-15.5mm Cables	SBN-PARMA
Cable Armor only, fits 2-6 Button pendants & 11.5-20.5mm Cables	SBN-PARMB
Cable Armor only, fits 7, 8, and 10 Button pendants & 13.5-24.0mm Cables	SBN-PARMC
Cable Armor only, fits 12 Button pendants & 15.5-26.0mm Cables	SBN-PARMD
Button Cap Assembly Red	WC-RS
Button Cap Assembly Green	WC-GS
Button Cap Assembly Black	WC-BS
Clear Acrylic Marker Plate with Standard Legend Sheet**	LENS-CA
Auxiliary Cable Armor 8-13mm	HAI-7
Auxiliary Cable Armor 13-17mm	HAI-12
Auxiliary Cable Armor 17-27.5mm	HAI-16
Key Ring	009-4008
Dog Clip	009-4036
Thimble	003-2051
Pendant Warning Label	001-9999
the American district Only the Colonia district Comments of Comments on	

^{*}see Appendix 1: Switch Schematics for more information.

^{**}see Label Sheet Images for more information.

Enclosures and Top Matrix

# of Holes	Model	Enclosure Catalog #	ENC TYPE	TOP & AUX, SP
2	SBN-2-W	#SBN-AE2		
3	SBN-3-W	#SBN-AE3	STD	#SBN-ATOPA
4	SBN-4-W	#SBN-AE4	SID	
5	SBN-5-W	#SBN-AE5		#SBN-ATOPB
6	SBN-6-W	#SBN-AE6		#3DN-ATOPD
7	SBN-7-W	#SBN-AE7	STD w AUX	
8	SBN-8-W	#SBN-AE8		#SBN-ATOPC
0	SBIT-8-W	#SBIT-AE8	TANDEM	#3BN-ATOPG
10	SBN-10-W	#SBN-AE10	STD w AUX	
12	SBN-12-W	#SBN-AE12	SIDWAUX	#SBN-ATOPD

Label Sheets

Actual Label Sheets

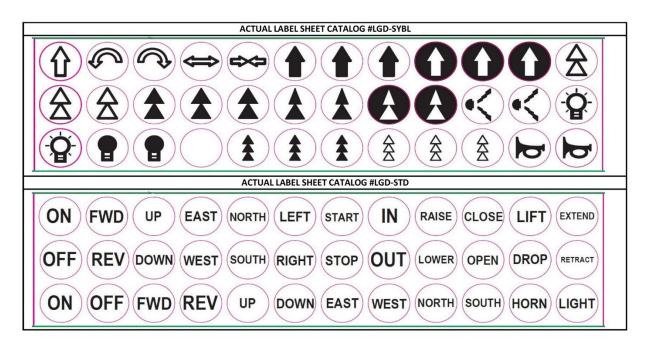


Image Reference Numbers

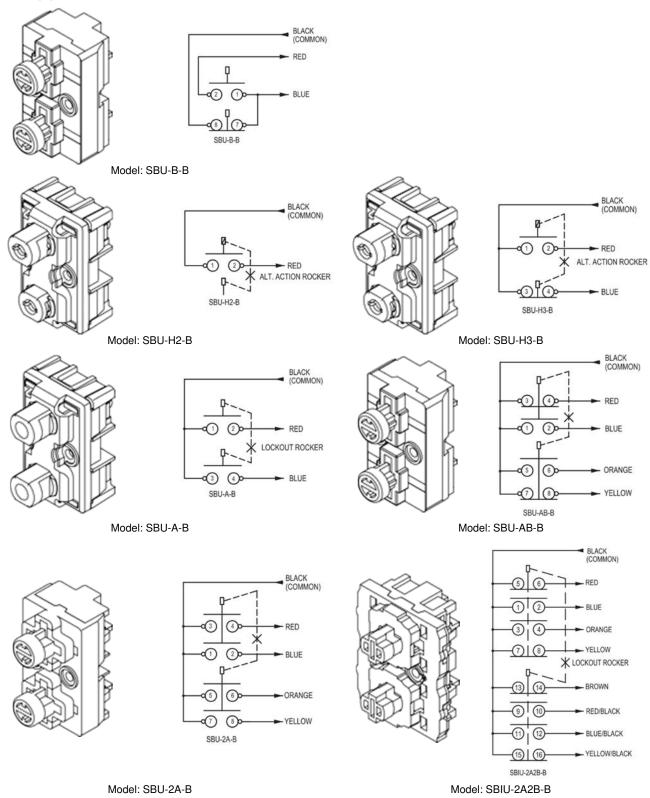
Image	Ref. No.	Image	Ref. No.	Image	Ref. No.	Image	Ref. No.
ON	A1	RIGHT	A12	EXTEND	A23	8	S8
OFF	A2	START	A13	RETRACT	A24		\$9
FWD	А3	STOP	A14	HORN	A25		S10
REV	A4	OUT	A15	LIGHT	A26	(4)	S11
UP	A5	(IN)	A16		S1	《	S12
DOWN	A6	RAISE	A17		S2	- Ö -	S13
EAST	A7	LOWER	A18		\$3		S14
WEST	A8	CLOSE	A19	***	S4		\$15
NORTH	A9	OPEN	A20		\$5	*	S16
SOUTH	A10	LIFT	A21		S6	\$	S17
LEFT	A11	DROP	A22	0	S 7	d	S18

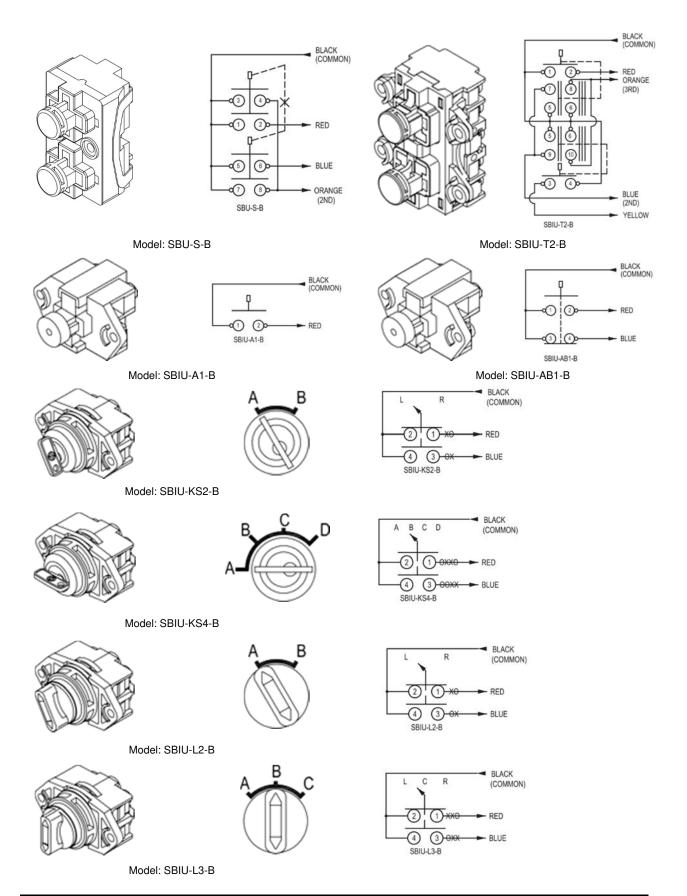
Switch Information

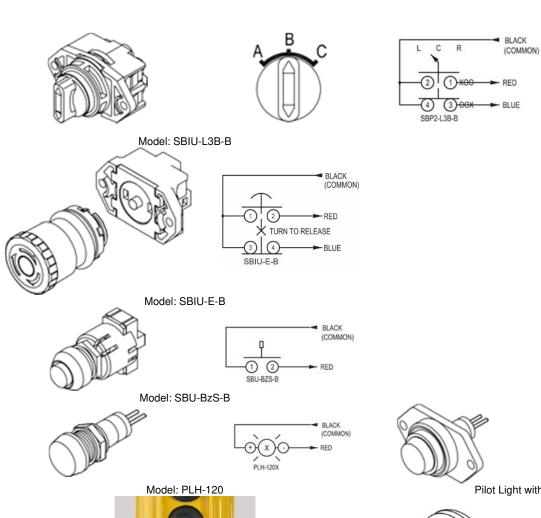
SP/CAT#	Rating	Description	Switch ref.	Button Hood	Mounting Screw Type	Mounting Screw Qty	# of Conductors
#SBIU-E-B		E-STOP, TURN TO RELEASE, N.O. & N.C. (1a+1b)	E	NO	M4x10	2	2
#SBIU-A1-B		MOMENTARY, 1 HOLE, N.O. (1a)	A1	YES	M4x10	2	1
#SBIU-AB1-B		MOMENTARY, 1 HOLE, N.O. & N.C. (1a+1b)	AB1	YES	M4x10	2	2
#SBU-B-B		MOMENTARY, 2 HOLE, N.O., N.C. (1a, 1b)	В	YES	M4x10	2	2
#SBU-H2-B		MAINTAINED, 2 HOLE, N.O., (1a,)	H2	YES	M4x18	2	1
#SBU-H3-B		MAINTAINED, 2 HOLE, N.O., N.C. (1a, 1b)	H3	YES	M4x18	2	2
#SBU-A-B		1 SPEED, 2 HOLE, N.O., N.O. (1a, 1a)	Α	YES	M4x18	2	2
#SBU-AB-B		1 SPEED, 2 HOLE, N.O. + N.C., N.O. + N.C. (1a+1b, 1a+1b)	AB	YES	M4x18	2	4
#SBU-2A-B		1 SPEED, 2 HOLE, 2N.O., 2N.O. (2a, 2a)	2A	YES	M4x18	2	4
#SBIU-2A2B-B	3 Amps 250 VAC	1 SPEED, 2 HOLE, 2N.O.+2N.C., 2N.O.+2N.C. (2a+2b , 2a+2b)	2A2B	YES	M4x18	2	8
#SBU-S-B		2 SPEED, 2 HOLE, N.O.+N.O., N.O.+N.O. (1a+1a , 1a+1a)	S	YES	M4x18	2	3
#SBIU-T2-B		3 SPEED, 2 HOLE, N.O. + N.O. + N.O., N.O. + N.O. + N.O. (1a+1a+1a , 1a+1a+1a)	Т	YES	M4x18	4	4
#SBIU-KS2-B		SELECTOR, KEYED, 2 POSITIONS	KS2	NO	M4x10	2	2
#SBIU-KS4-B		SELECTOR, KEYED, 4 POSITIONS	KS4	NO	M4x10	2	2
#SBIU-L2-B		SELECTOR, 2 POSITIONS	L2	NO	M4x10	2	2
#SBIU-L3-B		SELECTOR, 3 POSITIONS, N.C. ON CENTER	L3	NO	M4x10	2	2
#SBIU-L3B-B		SELECTOR, 3 POSITIONS, N.O. ON CENTER	L3B	NO	M4x10	2	2
#SBU-BzS-B	- -	AUX, MOMENTARY BUTTON	BZS	NO	Nut M14XP1.5	1	1
#SBU-BzSX-B		STD HOLE, MOMENTARY BUTTON	BZX	NO	M4x10	2	1
#PLH-120R	120 VAC	AUX, PILOT LIGHT (120V), RED	RP	NO	Nut M14XP1.5	1	1
#PLH-120G		AUX, PILOT LIGHT (120V), GREEN	GP	NO	Nut M14XP1.5	1	1
#PLH-120Y		AUX, PILOT LIGHT (120V), ORANGE	YP	NO	Nut M14XP1.5	1	1
#PLH-120T		AUX, PILOT LIGHT (120V), CLEAR	TP	NO	Nut M14XP1.5	1	1
#PLX-120R		STD HOLE, PILOT LIGHT (120V), RED	RPX	NO	M4x10	2	1
#PLX-120G		STD HOLE, PILOT LIGHT (120V), GREEN	GPX	NO	M4x10	2	1
#PLX-120Y		STD HOLE, PILOT LIGHT (120V), ORANGE	YPX	NO	M4x10	2	1
#PLX-120T		STD HOLE, PILOT LIGHT (120V), CLEAR	TPX	NO	M4x10	2	1
#WPI-Y	N/A	STD HOLE, PLASTIC RIGID BLANK	Υ	NO	M4x10	2	0
#WC-M	IN/A	STD HOLE, BLACK SILICONE RUBBER BLANK	М	NO	M4x10	2	0

Appendices

Appendix 1: Switch Schematics

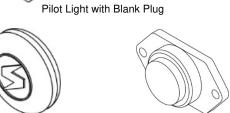












WC-M Blind Cover WPI-Y Blank Plug with O-Ring Seal

Appendix 2: Switch Compatibility Matrix

	Contact Co	onfiguration	SBN	SBP		
Momentary	1 N.O.	1 N.C.	#SBI	J-B-B		
not mechanically intern locked	1 N.O.	1 N.C.	#SB	PU-B		
	1 N.O.	-	#SBU	I-H2-B		
	1 N.O.	-	PU-H2			
Maintained on/off	1 N.O.	1 N.C.	#SBU-H3-B			
	1 N.O.	1 N.C.	#SBPU-H3			
	1 N.O.	1 N.O.	#SBU-A-B			
	1 N.O.	1 N.O.	#SBPU-A2			
	1 N.O. + 1 N.C.	1 N.O. + 1 N.C.	#SBU-AB-B			
Momentary Single Speed	1 N.O. + 1 N.C.	1 N.O. + 1 N.C.	#SBPU-AB			
Cingle opeod	2 N.O.	2 N.O.	#SBU-2A-B			
	2 N.O.	2 N.O.	#SBF	PU-D2		
	2 N.O.+ 2 N.C.	2 N.O.+ 2 N.C.	#SBIU-2A2B-B	-		
Momentary Two Speed	1 N.O. (1 N.O.)	1 N.O. (1 N.O.)	#SBU-S-B	#SBPU-S		
Momentary Three Speed	1 N.O. (1 N.O.) [1 N.O.]	1 N.O. (1 N.O.) [1 N.O.]	#SBIU-T2-B	#SBPU-T		
E-Stop Rotate to Release	1 N.O. + 1 N.C.	-	#SBIU-E-B	#SBPU-SMMH		
Key Switch	1 N.O.	-	#SBIU-KS2-B	#SBPU-KS2		
Key Switch	1 N.O. + 1 N.C.	-	#SBIU-KS4-B	#SBPU-KS4		
	1 N.O.	-	#SBIU-L2-B	#SBPU-L2		
Selector Switch	1 N.O. + 1 N.O.	-	#SBIU-L3-B	#SBPU-L3		
	1 N.O. + 1 N.O.	-	#SBIU-L3B-B	#SBPU-L3B		
Momentary	1 N.O.	-	#SBIU-A1-B	-		
Single hole	1 N.O. + 1 N.C.	-	#SBIU-AB1-B	-		
Horn	1 N.O.	-	#SBU-BzS-B	#SBPU-BZS		
TIOITI	1 N.O.	-	#SBU-BzSX-B	#SBPU-ABZS		
Pilot	120V	-	#PLH-120_	#SBPU-PL		
Lights	120V	-	#PLX-120_	#SBPU-PLX		
	-	-	#WPI-Y	#SBPU-BLNK		
Blank	-	-	#WPI-X	-		
	-	-	#WC-M	-		
Lens	-	-	#LENS-CA	#LENS		
Lagand	-	- #LEG		GEND		
Legend Sheet	-	- #LGD-STD				
	-	-	#LGD-SYBL			

Appendix 3: Switch Travel and Forces

Power Switches

Power Switches						
		ON (ozf / in)	ON (ozf / in)	Total Travel (in)		
SBU-B-B	Operating Force	43	32	0.07		
2BU-B-B	Operating Distance	0.23	0.12	0.27		
CDII UO D	Operating Force	97	83	0.26		
SBU-H2-B	Operating Distance	0.13	0.12	0.26		
SBU-H3-B	Operating Force	97	83	0.26		
	Operating Distance	0.13	0.12	0.26		
CDIII E D	Operating Force	-	86	0.24		
SBIU-E-B	Operating Distance	-	0.21	0.34		

Motion Switches

Motion Switches							
		SPEED 1 (Break) (ozf / in)	SPEED 1 (Make) (ozf / in)	SPEED 2 (ozf / in)	SPEED 3 (ozf / in)	Total Travel (in)	
SBU-A-B	Operating Force	36	-	-	-	0.26	
360-A-6	Operating Distance	0.21	-	-	-	0.26	
SBU-2A-B	Operating Force	Operating Force 36		-	-	0.27	
3BU-2A-B	Operating Distance	0.22	-	-	-	0.27	
SBU-AB-B	Operating Force	40	47	-	-	0.27	
SBU-AB-B	Operating Distance	0.13	0.23	-	-	0.27	
SBIU-2A2B	Operating Force	47	47	-	-	0.27	
SBIU-ZAZB	Operating Distance	0.14	0.22	-	-	0.27	
SBU-S-B	Operating Force	40	-	72	-	0.00	
3BU-3-B	Operating Distance	0.21	-	0.27	-	0.29	
CDIII TO D	Operating Force	43	-	58	76	0.01	
SBIU-T2-B	Operating Distance	0.1	-	0.2	0.3	0.31	
SBIU-A1	Operating Force	32	-	0.27			
SBIU-AI	Operating Distance	0.23	-	-			
CDIII AD1	Operating Force	32	40	-	-	0.06	
SBIU-AB1	Operating Distance	0.11	0.23		-	0.26	

Appendix 4: Configured Pendant Sheet

ompany N	ame:						Quote Reference:	
ontact Nar	ne:							
structions	:							
Choose sv	witch from "sw	vitch informatio	n" table.					
		2 holes, skip the						
		a button hood,				per hole lo	cation.	
		itton operation luctors needed a			ising table.			
		noles used to de			size.			
		nks when neede			0.201			
b. If ու	ımber of holes	add up to 9 or	11, roundup t	to 10 or 12, and	d add a blan	k in one of	the hole locations.	
	-	t number by usi	_					
		ot or button is n						
Add up pr	ices of individ	ual switches and	d the pendant	enclosure size	!.			
				No. of			1	
			Switch ref.	Conductors	Prid	ce		
Accessor	ry pilot light or	button ==>						
nly available fo	or 7 button or larger	enclosures)						
					Prid	ce		
	Button Hood	Button Label		No. of			_	
ocation	Color	ref. No.	Switch ref.	Conductors	Switch	Hood		
2								
- 1								
4								
	-							
6								
ا _ه ا								
8								
10							,	
1								
12								
		Spare Co	onductors==>		-			
				osure Size==>		-		
			Sub To	otal Price ==>	()+			
			Dand	ant Price ==>	Х	Multiplier		
			rend	ant rince			I	
				_				
Catalog	g part number: -W							