

80 Series Push Button Pendant Features

The Conductix-Wampfler 80 Series Push Button Pendants are available with a wide variety of switch types, options, and accessories for easy customization. You can get from 2 to 12 buttons in a standard configuration or up to 24 buttons in a duplex configuration.

80 Series Pendants are ideal for:

- Overhead crane control
- Monorail and hoist control
- Conveyor and elevator control
- Workstations
- Assembly lines
- Other industrial machines

Enclosure Features:

- High impact, yellow ABS enclosure
- Two-piece design to simplify field wiring
- Rated NEMA 4X (IP65); suitable for indoor or outdoor use
- Shock resistant to 100 g.
- Double-insulated to withstand 2500V
- UL/cUL Listed for indoor use only



General Switch Features:

- One, two, and three-speed operators
- Silicon-booted buttons
- Easy-force buttons with positive detents for speed selections
- Switch contacts rated at 5 A (at 120 VAC)
- 5° F to 160° F (-15° C to 70° C) operating temperature range
- 5A @ 120VAC & 240VAC, 2A @ 24VDC & 12VDC, & .4A @ 120VDC

Cable Packing Gland

Furnished with bushing available in 16 sizes; assures water tight seal.

Lamp & Horn Switch

Knock-out holes in .47 inch (12mm) and .75 inch. (19mm) diameters. Available for a lamp and horn switches on 6 through 12 button enclosures.

Fasteners

Self-captive stainless steel hardware and threaded inserts in housing to prevent thread stripping.

Buttons

Silicone Rubber booted buttons. Seals out dirt and moisture. Available in red, green, and black.

Jumpers

Included with all pre-assembled pendants - See Pg. 16.

Cable Bushings

Available in 10 sizes from 0.30 in. to 1.16 inches (7.5mm to 29.5mm).

Bushing Collar

Three sizes for cable diameters from 0.30 inches to 1.16 inches (7.5mm to 29.5mm).

Hanger Ring

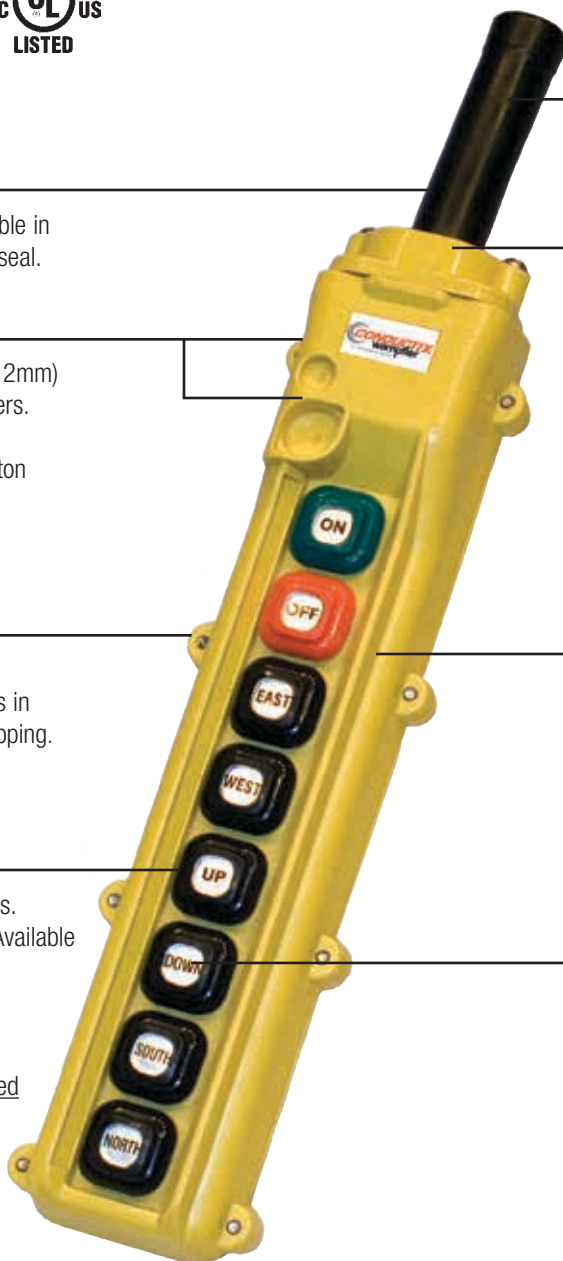
Located on the back of the bushing collar. For external strain relief connection. 'S' hook is available for strain relief cable connection - see Pg. 15.

Enclosure

Ergonomic design, visible safety yellow, shock and vibration resistant, rugged ABS, 2 through 12 button. Standard Back or Deep Back styles. Two piece enclosure simplifies field wiring.

Button Legends

Standard button legends are included. Vertical, selector, and mushroom legends are also available.



80 Series - Custom Pendant Order Sheet

See Pgs. 6-7 for Pre-Configured Pendants. For "custom" pendants, fax or e-mail the completed sheet to your local sales office to obtain a quotation - see back cover for contact information.

Request Date		Sales Person	
Company		Name	
		Title	
		Phone	
		Fax	
Company Type		E-mail	

1 Number of switches (button holes) required
(Round up to even #)

2 List switch inserts & lamp/horn inserts as needed by Part No. below. See Pgs. 9-15.

3 List number of conductors per switch. See Pgs. 9-15.

5 Cable O.D. (from Step 4): _____

Bushing and Cable Gland Part No. (See Pg. 6): _____

The diagram shows a side view of a vertical electrical enclosure. It has a central column of 12 square terminal openings. To the left of these terminals are horizontal dashed lines numbered 2, 4, 6, 8, 10, and 12, corresponding to the terminal positions. To the right of the terminals are horizontal solid lines for listing conductor counts. At the top, there's a section for switch and lamp/horn inserts. A cable enters from the top, passing through a bushing and gland. Arrows point from steps 1, 2, 3, 4, and 5 to their respective input areas.

Number of "Commons" Req'd: _____

Total no. of conductors required (sum of above) _____

4 Cable O.D. (based on the number of conductors required) - See Pg. 24:





7 Button Legend Sheet - see Pg. 16 for available styles and insert Part No.

6 Select the appropriate enclosure based on # of holes required, types of switches, and size of bushing needed.

A "Deep Back" enclosure is required for certain switch types, as noted on Pgs. 9-15, and for pendants that have 16 or more wires to accommodate inside the enclosure.

See page 8 for enclosure details.

Check appropriate box:

<input type="checkbox"/>	Standard Back Cable O.D. 7.5 -19.5mm	 A
<input type="checkbox"/>	Deep Back Cable O.D. 7.5 -19.5mm	 B
<input type="checkbox"/>	Standard Back Cable O.D. 19.3 - 29.5mm	 C
<input type="checkbox"/>	Deep Back Cable O.D. 19.3-29.5mm	 D

8 List desired options - Strain Relief Cable, "S" Hook, Quick Disconnect, etc.) - see Pgs. 15, 16, and 24.

Complete 80 Series Push Button Pendants

All Pendant Stations are fully assembled and include enclosure, operators, cable bushing, "S" hook and button legend sheet. Contact Conductix-Wampfler or your local representative for custom pendant stations. Jumpers included on assembled pendants only.



No. of Buttons	Switch Arrangement	Complete Unit Part No.	Bushing Part No.
2	Momentary On/Off (Red, Green)	34212	34411
2	Maintained On/Off (Red, Green)	34213	34411
2	Two 1-Speed	34214	34411
2	Two 2-Speed	34215	34411
2	Two 3-Speed	34216	34411
4	Two 1-Speed, With Momentary On/Off (Red, Green)	34217	34412
4	Two 1-Speed, With Maintained On/Off (Red, Green)	34218	34412
4	Two 2-Speed, With Momentary On/Off (Red, Green)	34219	34412
4	Two 2-Speed, With Maintained On/Off (Red, Green)	34220	34412
4	Two 3-Speed, With Momentary On/Off (Red, Green)	34221	34412
4	Two 3-Speed, With Maintained On/Off (Red, Green)	34222	34412
4	Four 1-Speed	34223	34412
4	Four 2-Speed	34224	34412
4	Four 3-Speed	34225	34412
6	Four 1-Speed, With Momentary On/Off (Red, Green)	34226	34413
6	Four 1-Speed, With Maintained On/Off (Red, Green)	34227	34413
6	Four 2-Speed, With Momentary On/Off (Red, Green)	34228	34413
6	Four 2-Speed, With Maintained On/Off (Red, Green)	34229	34413
6	Four 3-Speed, With Momentary On/Off (Red, Green)	34230	34413
6	Four 3-Speed, With Maintained On/Off (Red, Green)	34231	34413
6	Six One Speed	34232	34413
6	Six Two Speed	34233	34413
6	Six Three Speed	34234	34413
8	Six 1-Speed, With Momentary On/Off (Red, Green)	34235	34413
8	Six 1-Speed, With Maintained On/Off (Red, Green)	34236	34413

Complete 80 Series Push Button Pendants

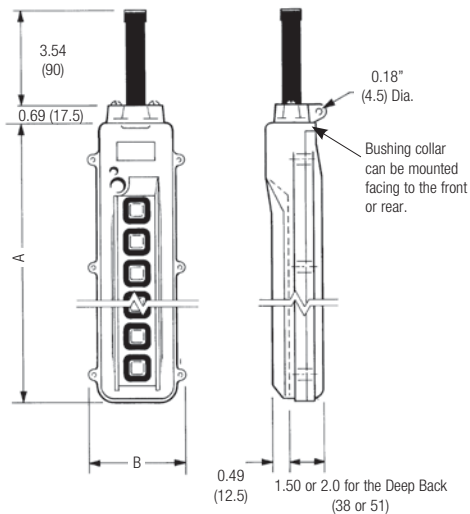
All Pendant Stations are fully assembled and include enclosure, operators, cable bushing, "S" hook and button legend sheet. Contact Conductix-Wampfler or your local representative for custom pendant stations. Jumpers included on assembled pendants only.



No. of Buttons	Switch Arrangement	Complete Unit Part No.	Bushing Part No.
8	Six 2-Speed, With Momentary On/Off (Red, Green)	34237	34413
8	Six 2-Speed, With Maintained On/Off (Red, Green)	34238	34413
8	Six 3-Speed, With Momentary On/Off (Red, Green)	34239	34413
8	Six 3-Speed, With Maintained On/Off (Red, Green)	34240	34413
8	Eight 1-Speed	34241	34413
8	Eight 2-Speed	34242	34413
8	Eight 3-Speed	34243	34413
10	Eight 1-Speed, With Momentary On/Off (Red, Green)	34244	39826
10	Eight 1-Speed, With Maintained On/Off (Red, Green)	34245	39826
10	Eight 2-Speed, With Momentary On/Off (Red, Green)	34246	39826
10	Eight 2-Speed, With Maintained On/Off (Red, Green)	34247	39826
10	Eight 3-Speed, With Momentary On/Off (Red, Green)	34248	39826
10	Eight 3-Speed, With Maintained On/Off (Red, Green)	34249	39826
10	Ten 1-Speed	34250	39826
10	Ten 2-Speed	34251	39826
10	Ten 3-Speed	34252	39826
12	Ten 1-Speed, With Momentary On/Off	34253	39826
12	Ten 1-Speed, With Maintained On/Off	34254	39826
12	Ten 2-Speed, With Momentary On/Off	34255	39826
12	Ten 2-Speed, With Maintained On/Off	34256	39826
12	Ten 3-Speed, With Momentary On/Off	34257	39826
12	Ten 3-Speed, With Maintained On/Off	34258	39826
12	Twelve 1-Speed	34259	39826
12	Twelve 2-Speed	34260	39826
12	Twelve 3-Speed	34261	39826

80 Series Pendant Enclosures and Bushings

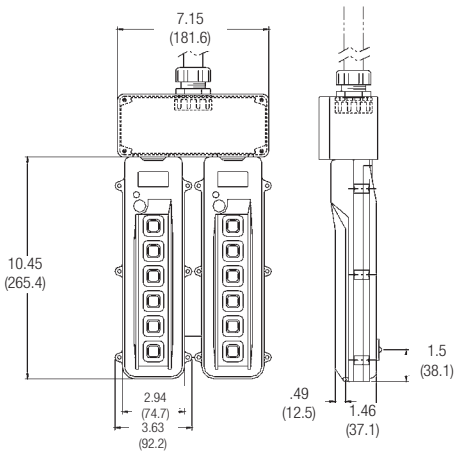
Single Enclosures



No. of Holes	"A" Dim.	"B" Dim.
2	4.49 (114)	3.07 (78)
4	7.09 (180)	3.07 (78)
6	10.31 (262)	3.23 (82)
8	12.68 (322)	3.23 (82)
10	15.24 (387)	3.43 (87)
12	17.60 (447)	3.43 (87)
12-24	Consult Factory	

Duplexed Enclosures

For details on pendants up to 24 buttons, contact the factory.



Enclosure Bushings

Correctly sized bushings are necessary to prevent moisture from getting inside of the enclosure. Order based on cable O.D. and the part number of the enclosure the bushing is to be used on.

COMPLETE ENCLOSURE (FRONT AND BACK) (For different size bushings order from below)

# of Button Holes	Enclosure Depth	Inlet Size	Cable Diameter Range Inches (mm)	Part No.	Inlet Diagram
2	Standard	Small	.31 - .83 (8 - 21)	34274	
4	Standard	Small	.31 - .83 (8 - 21)	34275	
6	Standard	Small	.31 - .83 (8 - 21)	34276	
8	Standard	Small	.31 - .83 (8 - 21)	34280	
6	Standard	Large	.87 - 1.10 (22 - 28)	34278	
8	Standard	Large	.87 - 1.10 (22 - 28)	34282	
10	Standard	Large	.87 - 1.10 (22 - 28)	34286	
12	Standard	Large	.87 - 1.10 (22 - 28)	34290	
6	Deep Back	Small	.31 - .83 (8 - 21)	34277	
8	Deep Back	Small	.31 - .83 (8 - 21)	34281	
6	Deep Back	Large	.87 - 1.10 (22 - 28)	34279	
8	Deep Back	Large	.87 - 1.10 (22 - 28)	34283	
10	Deep Back	Large	.87 - 1.10 (22 - 28)	34287	
12	Deep Back	Large	.87 - 1.10 (22 - 28)	34291	

For Enclosures 34274, 34275, 34276, 34280, 34277, & 34281:

Cable Size Range inches (mm)	Cable Bushing Part No.
.30 - .41 (7.5 - 10.5)	34411
.41 - .53 (10.3 - 13.5)	34412
.52 - .65 (13.3 - 16.5)	34413
.64 - .77 (16.3 - 19.5)	34414

For Enclosures 34278, 34282, 34286, 34290, 34279, 34283, 34287, & 34291:

.52 - .65 (13.3 - 16.5)	39825
.64 - .77 (16.3 - 19.5)	39826
.76 - .89 (19.3 - 22.5)	34415
.88 - 1.00 (22.3 - 25.5)	34416
1.00 - 1.12 (25.3 - 28.5)	34417

Pilot Lights & Horn Switches



Pilot Light - Large



Red neon light, 19 mm diameter, for use with 6, 8, 10 and 12 button enclosures. Fits into large accessory hole in enclosure, not button space. [Note: These can be installed at the “small hole” location, but in that location, must be factory installed.]

Part No.	Voltage	No. of Wires*
36088	12 / DC	1
36081	24 DC / AC	1
34316	110 / AC	1

Momentary Push Button Horn Switch



19mm diameter, for use with 6, 8, 10 and 12 button enclosures. Fits into large hole in enclosure, not button space.

Part No.	Resistive Load (Volts)	Amperage	No. of Wires*
34312	125 / AC	6	1
	250 / AC	3	1

Pilot Light



22 mm diameter; takes up one button space.

Part No.	Voltage	No. of Wires*	Colors Available
XA-35181*	12 / DC	2	Red, Amber, Green
36042*	24 VAC / VDC	2	Red, Green, Blue
34303*	110 / AC	2	Red, Amber, Green
36882	110 / AC	2	Blue only

* Typical wiring - for general information only. Number of wires will vary depending on the wiring method used.

** **Insert Light Color, if not red:** G=Green, A=Amber, B=Blue
Examples: XA-35181 = 12V DC, Red light
XA-35181G = 12V DC, Green light

80 Series Pendant Switches

Maintained On/Off



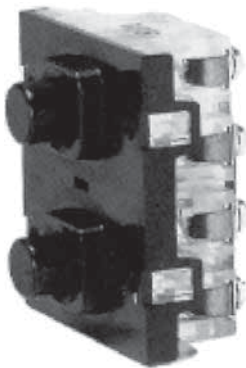
Part No.	No. of Wires*	Contact Configuration
34292	1	
34293	1	

Momentary Non-Interlocking



Part No.	No. of Wires*	Contact Configuration
34308	2	
34309	2	
34310	2	

Dual Pole Momentary with Mechanical Interlock

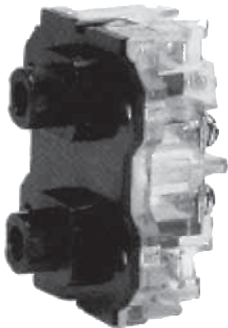


Part No.	No. of Wires*	Contact Configuration
34321	4	
34322	4	

* Typical wiring - for general information only. Number of wires will vary depending on the wiring method used.

80 Series Pendant Switches

Momentary 1-Speed with Mechanical Interlock



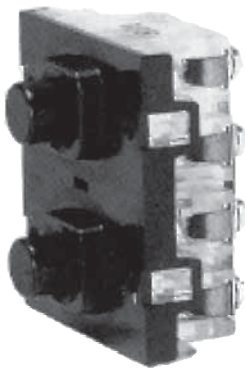
Part No.	No. of Wires*	Contact Configuration
34294	2	
34295	2	

Momentary Single Button



Part No.	No. of Wires*	Contact Configuration
34305	1	
34306	1	
34307	2	
37114	2	
37199	2	

Momentary 2-Speed with Mechanical Interlock

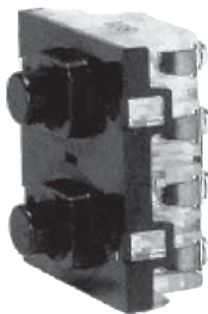


Part No.	No. of Wires*	Contact Configuration
34296	3	
34297	3	
34298	3	Same as 34297, but with delayed opening of contacts 7 & 8 "Break Before Make" contact arrangement

* Typical wiring - for general information only. Number of wires will vary depending on the wiring method used.

80 Series Pendant Switches

Momentary 3-speed with Mechanical and Electrical Interlock



Maintained Multi-Position Selector Switch 2 position and 3 position

Other configurations available - contact factory.



Part No.	No. of Wires *	Contact Configuration
34323	4	


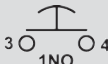
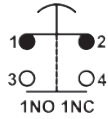
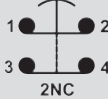
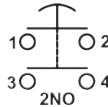
Part No.	No. of Wires*	Contact Configuration
37107	1	
37108	1	
34317	2	
34318	2	
34319	2	
34320	2	
37109	2	
37110	2	

* Typical wiring - for general information only. Number of wires will vary depending on the wiring method used.

80 Series Pendant Switches


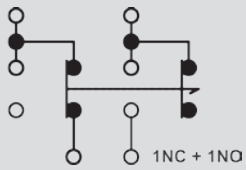
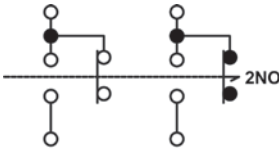
Push Lock Twist-Release Mushroom Switch



Part No.	No. of Wires*	Contact Configuration
34313	1	
37122	1	
37123	2	
37124	2	
37125	2	

Alternating Push Button Switch



Part No.	No. of Wires*	Contact Configuration
34299	1	
34300	1	
37126	2	

* Typical wiring - for general information only. Number of wires will vary depending on the wiring method used.

80 Series Pendant Switches

Toggle switch



Note: Deep back enclosure required.

Part Number	No. of Wires*	Contact Configuration
34301	1	
34302	2	
37127	2	

Variable Position Resistor



Max. Resistance (ohms)	Part No.	No. of Wires*	Contact Configuration
1,000	34314B	2	
2,000	34314D	2	
5,000	34314	2	
10,000	34314C	2	

Blank plate



Part No.
34304

* Typical wiring - for general information only. Number of wires will vary depending on the wiring method used.

80 Series Accessories, Spare Parts, and Jumpers

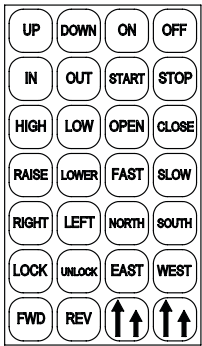


Item	Description	Part No.
Strain Relief Clamp	For Enclosures 34274 and 34275	34626
Strain Relief Clamp	For Enclosures 34276 through 34291	34627
"S" Hook Hanger	For Pendant Cables with Strain Relief Cable	34332
Bushing Collar, Small	For Pistol Grip and all 2 and 4 button pendants Cable O.D. - .30 - .77" (7.5 - 19.5 mm)	34333
Bushing Collar, Medium	For 6 and 8 Button Enclosures, with "Standard" inlet. Cable O.D.: 0.30" - 0.77" (7.5 - 19.5mm)	50920
Bushing Collar, Large	For 6, 8, 10, and 12 Button Enclosures with "Large" inlet. Cable O.D.: 0.76 - 1.16 (19.3 - 29.5mm)	34334
Switch Boot	Red	34328
Switch Boot	Black	34329
Switch Boot	Green	34330
Switch Boot Cover	Clear	34331
Deep Back Cover**	2 Button Enclosure	34864
Deep Back Cover**	4 Button Enclosure	34866
Deep Back Cover**	6 Button Enclosure	36029
Deep Back Cover**	8 Button Enclosure	36030
Deep Back Cover**	10 Button Enclosure	36032
Deep Back Cover**	12 Button Enclosure	36033

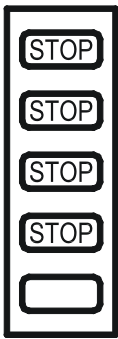
** Includes the back over piece only

Jumpers (Used On One Switch)	Jumpers (Used From Switch to Switch)	Part No.	Jumper Label
On switch 34294 and 34295 to connect terminals 1 and 5.	To connect common between standard back selector, keyed, and mushroom switches.	34759	J80-01
	To connect between 1-speed, 2-speed, 3-speed, and ON/OFF switches.	34760	J80-02
On all 2-speed switches to connect terminal 6 to 4 and 14 to 16.	For connecting common between 2-speed switches by connecting terminal 16 of one switch to terminal 6 of adjacent switch.	34761	J80-03
	On all 3-speed switches to connect terminal 18 of two adjacent 3-speed switches and to connect terminal 8 of two adjacent 3-speed switches.	35538	J80-04
	To connect common of a maintained ON/OFF switch to adjacent 1-speed, 2-speed, or 3-speed switch.	35000	J80-06
On 2-speed switches to connect terminal 5 to 15.		34992	J80-12

80 Series Legend Sheets

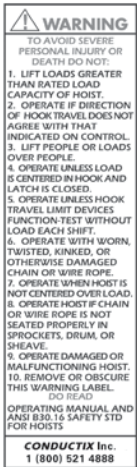


Button Legend - 34326

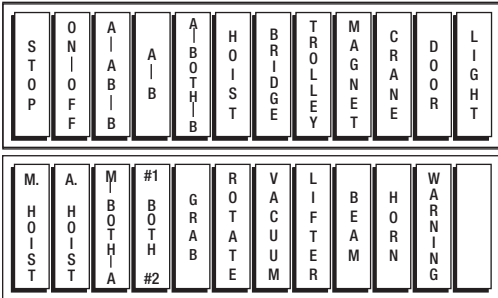


Mushroom Switch Legend - 35299

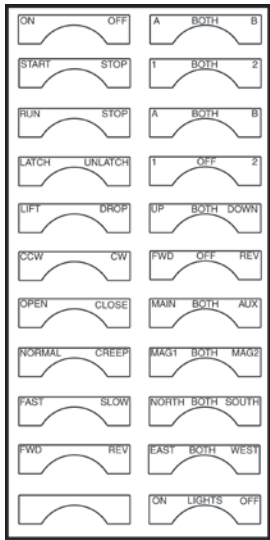
Legend/Sticker	Usage	Part No.
Button Legend	For push button marking. One sheet is automatically included with each pre-assembled pendant	34326
Mushroom Switch Legend	For mushroom switches	35299
Warning Sticker	n/a	35373
Vertical Legend	For case marking (Contact factory for legends sheets not listed.)	34327
Selector Switch Sheet #1	For case marking of selector switches	35300
Selector Switch Sheet #2	For case marking of selector switches	37228



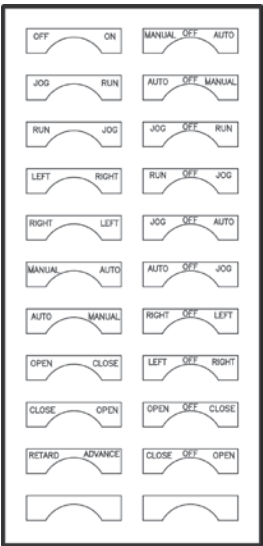
Warning Sticker - 35373



Vertical Legend - 34327



Selector Switch Legend #1 - 35300



Selector Switch Legend #2 - 37228

80 Series Pistol Grip

80 Series Pistol Grip



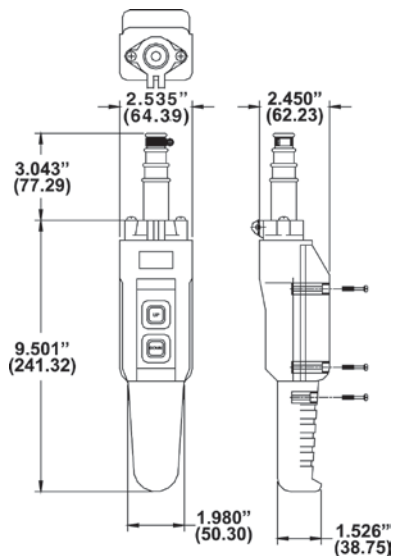
The Conductix-Wampfler 80 Series Pistol Grip Pendants feature a compact, ergonomic design with the operator's comfort in mind. They are available with 1, 2, or 3 speed buttons. It is equipped to accommodate either internal or external strain relief cable.

UL/cUL Listed for indoor use only 

Features:

- High impact, yellow ABS enclosure
- Multi-diameter cable bushing inlet
- Rated NEMA 4 (IP65); suitable for indoor or outdoor use

Speed	Part No.
1	COB81PB
2	COB81P
3	COB81PC



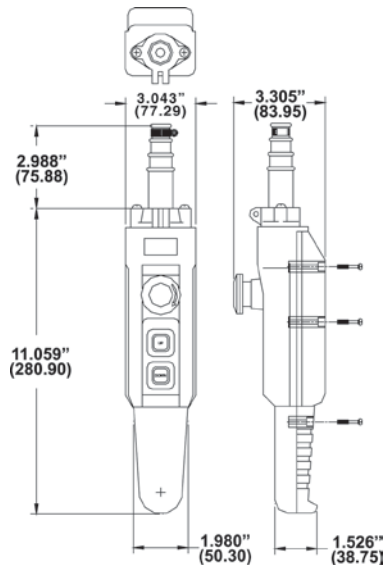
80 Series Pistol Grip, with 3 Button Holes



Same as the COB81, except that the top hole in the COB81.5P unit has an emergency stop button.

Speed	Part No.
1	COB81.5PB
2	COB81.5P
3	COB81.5PC

Note: E-Stop contact is 1NO & 1NC



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