

## SEALED TERMINAL AND WIRE LEAD OPTIONS OPTION -E AND -EW

### FEATURES

- Single Pole, Single Throw
- 1/4, 1/2, and 1 Amp
- Limit, Overtravel, or Panel Seal
- Butt or Wiping Contact
- Normally Open or Normally Closed
- Momentary or Push/Pull
- Series 23, 30, 39 and 46



Option -E  
Epoxy-Sealed  
Terminals



Option -EW,  
Potted Base & 6"  
Wire Leads

### SPECIFICATIONS

#### Rating Criteria

**Make and Break Current Rating:** See page for standard part number

**Contact Resistance:** 25 milliohms maximum on a new switch. Less than 4 milliohms per inch of wire for wire lead option styles.

**Insulation Resistance:** 1,000 megohms minimum between mutually insulated parts

**Voltage Breakdown:** 1,000 Vac minimum between mutually insulated parts

#### Materials and Finishes

**Potting Sleeve (Series 39):** Thermoset Plastic

**Wire Leads:** #26AWG, (.99mm diameter) insulated Teflon, Copper stranded wire, per MIL-W-16878, Type E. Ends are stripped 0.250" (6.35) and solder dipped. For other specifications, see Page References.

Standard Part Number Red Button	Standard Part Number Black Button	Choices of Suffix	Length Behind Panel In inches (and millimeters)	
			Standard Switch & Terminals	-EW Style Body
23-1	23-4	-E	0.665 (16,89)	—
30-1	30-3	-E, -EW	0.592 (15,04)	0.645 (16,38)
30-15	30-37	-E, -EW	0.679 (17,25)	0.728 (18,49)
30-17 RED	30-17 BLK	-E, -EW	0.958 (24,33)	1.007 (25,58)
30-16 RED	30-16 BLK	-E, -EW	0.958 (24,33)	1.007 (25,58)
30-251 RED	30-251 BLK	-E, -EW	0.632 (16,05)	0.685 (17,40)
30-252 RED	30-252 BLK	-E, -EW	0.645 (16,38)	0.700 (17,78)
30-32 RED	30-32 BLK	-E, -EW	0.867 (22,02)	0.896 (22,76)
30-6	30-2	-E, -EW	0.605 (15,37)	0.640 (16,26)
30-601 RED	30-601 BLK	-E, -EW	0.592 (15,04)	0.645 (16,38)
39-1*	39-3*	-EW**	0.315 (8,00)	0.440 (11,18)
39-12*	39-2	-E, -EW	0.490 (12,45)	0.575 (14,61)
39-101	39-24*	-EW**	0.455 (11,56)	0.575 (14,61)
39-351 RED	39-351 BLK	-EW**	0.650 (16,51)	0.775 (19,69)
39-352 RED*	39-352 BLK*	-E, -EW	0.350 (8,89)	0.450 (11,43)
39-601 RED	39-601 BLK	-E, -EW	0.529 (13,44)	0.630 (16,00)
39-701***	—	-EW*	0.315 (8,00)	0.440 (11,18)
39-702***	—	-EW**	0.800 (20,32)	0.925 (23,50)
46-101 RED	46-101 BLK	-E, -EW	0.510 (12,95)	0.750 (19,05)
46-102 RED	46-102 BLK	-E, -EW	0.890 (22,61)	0.957 (24,31)
46-110 RED	46-110 BLK	-E, -EW	0.890 (22,61)	0.957 (24,31)
46-111 RED	46-111 BLK	-E, -EW	0.890 (22,61)	0.957 (24,31)
46-150 RED	46-150 BLK	-E, -EW	0.890 (22,61)	0.957 (24,31)
46-151 RED	46-151 BLK	-E, -EW	0.957 (24,31)	1.024 (26,01)
46-200 RED	46-200 BLK	-E	0.957 (24,31)	1.024 (26,01)
46-201 RED	46-201 BLK	-E	0.921 (23,39)	—
46-270 RED	46-270 BLK	-E	0.921 (23,39)	—
46-271 RED	46-271 BLK	-E	0.957 (24,31)	—

\*Epoxy potting sleeve enlarges the diameter of the -EW style to 0.300 (7,62).

\*\*Sealed terminal (-E) option is not necessary; terminals have sealed construction.

\*\*\*Natural Color Button

†Adjustable from 1.214 (30,84) to 1.334 (33,88) dependent on button height, see switch pages.

## ORDERING INFORMATION

Use the Selector Charts at the beginning of the section to select a series. Use the pages listed there or referenced here to select a switch.

To order epoxy sealed terminals, add the suffix -E to the selected part number as allowed in the chart. **Example:** 30-1-E.

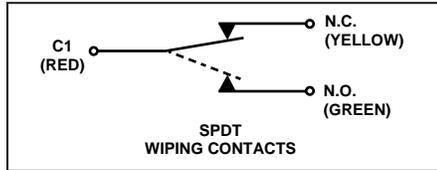
To order the epoxy-potted version with 6-inch wire leads, use the suffix -EW as allowed in the chart. **Example:** 39-1-EW

**Available From Your Local Grayhill Distributors.** For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

### Page References

Selection Chart	Page E-4
Series 23	Page E-30
Series 30	Pages E-17 to E-20, and E-22 to E-26
Series 39	Pages E-11
Series 46	Pages E-27

## CIRCUITRY: Series 46



Standard Part Number Choice of Button Color (see switch pages)	Standard Part Number Without Options Choice of Button Color (see switch pages)	Choices of Suffix	Length Behind Panel In inches (and millimeters)	
			Standard Switch & Terminals	-EW Style Body
30-001-A-XX	—	-E, -EW	1.119 (28,42)	1.172 (29,77)
30-002-A-XX	—	-E, -EW	1.132 (28,75)	1.167 (29,64)
30-015-A-XX	—	-E, -EW	1.204 (30,58)	1.253 (31,83)
30-017-A-XX	—	-E, -EW	Adjustable†	Adjustable†
30-1-1-50-XX	30-01-01-500-XX	-E, -EW	1.100 (27,94)	1.153 (29,29)
30-1-4-50-XX	30-01-04-500-XX	-E, -EW	1.257 (31,93)	1.310 (33,27)
30-5-1-52-XX	30-05-01-502-XX	-E, -EW	0.930 (23,62)	0.983 (24,97)
30-5-4-52-XX	30-05-04-502-XX	-E, -EW	1.130 (28,70)	1.183 (30,05)
30-601-A-XX	—	-E, -EW	1.119 (28,42)	1.172 (29,77)
46-1-5-50-XX	46-01-05-500-XX	-E, -EW	1.361 (34,57)	1.428 (36,27)
46-1-7-50-XX	46-01-07-500-XX	-E, -EW	1.451 (36,86)	1.518 (38,56)
46-1-8-50-XX	46-01-08-500-XX	-E	1.381 (35,08)	—
46-1-9-50-XX	46-01-09-500-XX	-E	1.381 (35,08)	—
46-5-5-52-XX	46-05-05-502-XX	-E, -EW	1.179 (29,95)	1.246 (31,65)
46-5-7-52-XX	46-05-07-502-XX	-E, -EW	1.465 (37,21)	1.532 (38,91)
46-5-8-52-XX	46-05-08-502-XX	-E	1.188 (30,18)	—
46-5-9-52-XX	46-05-09-502-XX	-E	1.317 (33,45)	—
46-102-A-XX	—	-E, -EW	1.417 (35,99)	1.484 (37,69)
46-111-A-XX	—	-E, -EW	1.417 (35,99)	1.484 (37,69)
46-200-A-XX	—	-E	1.448 (36,78)	—
46-201-A-XX	—	-E	1.448 (36,78)	—

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\*\*\*Natural Color Button

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