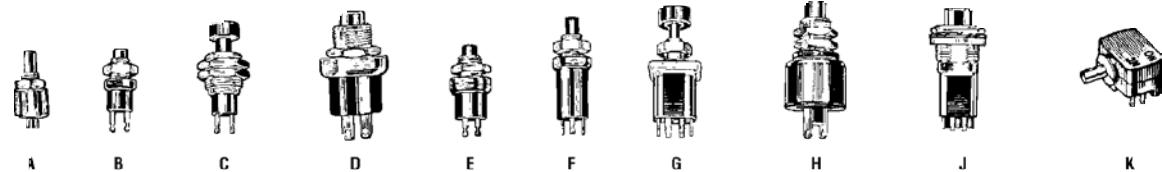


Pushbutton Switches and Hardware



But Contact Switches (A, B, C, K)

- Miniature and Economical SPST Switches
- Positive Feel (30-17), Overtravel (30-15), and SPDT PC Mount (M) Versions

Wiping Contact Types (D, E, F, G, I, J)

- Self-Cleaning, Reliable At Low Voltage
- SPDT and DPDT Circuitry
- Capped (46-102), and Decorative (I, J) Styles

Snap Action Contact Types (H)

- Rapid Make and Break For High Current

Accessories (for D, H)



- Decorative Bezel (7C) Replaces Mounting Nut
- Guard (10C) Prevents Accidental Actuation

Type 7C1040-1. Overall Diameter: 0.77".

948-0001 EACH 1.02

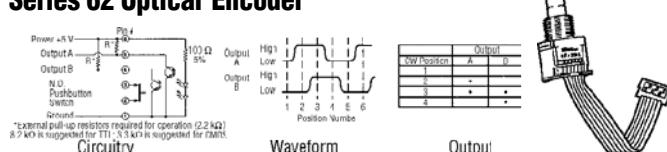
Type 10C1015-1. Overall Diameter: 0.89".

948-0002 EACH 1.27

| Stock No. | Mfr.'s Type | Fig. | Amps 115 VAC Res. | Circuitry | Button | Dimensions | | EACH | | | |
|-----------|-------------------|------|-------------------|-----------|--------|---------------|--------------|----------|-------|---------|---------|
| | | | | | | Mfg. Hole | Behind Panel | O.A. Ht. | 1-99 | 100-499 | 500-999 |
| 948-7190 | 39-1 | A | 1/2 | SPST-NO | Red | 11/64 | 0.315 | 0.615 | 3.38 | 3.11 | 2.88 |
| 948-7192 | 39-3 | A | 1/2 | SPST-NO | Black | 11/64 | 0.315 | 0.615 | 3.39 | 3.13 | 2.89 |
| 948-7193 | 30-1 | B | 1 | SPST-NO | Red | 17/64 | 0.592 | 0.992 | 2.21 | 2.01 | 1.84 |
| 948-7194 | 30-2 | B | 1 | SPST-NC | Black | 17/64 | 0.605 | 1.005 | 2.48 | 2.29 | 2.13 |
| 948-7195 | 30-3 | B | 1 | SPST-NO | Black | 17/64 | 0.592 | 0.992 | 2.21 | 2.01 | 1.84 |
| 948-7196 | 30-15 | B | 1 | SPST-NO | Red | 17/64 | 0.667 | 1.077 | 2.75 | 2.54 | 2.36 |
| 948-7197 | 30-17 Red | C | 1 | SPST-NO | Red | 31/64 | 0.958 | 1.350 | 5.43 | 5.02 | 4.67 |
| 948-7198 | 10-9 | D | 1 | SPST-NO | Black | 31/64 | 0.965 | 1.500 | 4.30 | 3.75 | 3.49 |
| 948-7199 | 4001 | D | 1 | SPST-NO | Red | 31/64 | 0.965 | 1.500 | 4.30 | 3.75 | 3.49 |
| 948-7200 | 4002 | D | 1 | SPST-NC | Black | 31/64 | 0.965 | 1.500 | 4.30 | 3.75 | 3.49 |
| 948-7201 | 23-1 | E | 1/4 | SPST-NO | Red | 21/64 | 0.663 | 1.059 | 5.60 | 5.18 | 4.81 |
| 948-7202 | 46-101 Red | F | 1/4 | SPDT-BBM | Red | 17/64 | 0.890 | 1.327 | 4.48 | 4.15 | 3.86 |
| 948-7204 | 46-102 Red | F | 1/4 | SPDT-BBM | Red | 17/64 | 0.890 | 1.327 | 4.50 | 4.16 | 3.86 |
| 948-7205 | 46-102 Black | F | 1/4 | SPDT-BBM | Black | 17/64 | 0.890 | 1.327 | 4.50 | 4.15 | 3.85 |
| 948-7207 | 46-200 Red | G | 1/4 | DPDT-BBM | Red | 17/64 | 0.921 | 1.560 | 8.63 | 7.98 | 7.42 |
| 948-7208 | 46-200 Black | G | 1/4 | DPDT-BBM | Black | 17/64 | 0.921 | 1.560 | 8.63 | 7.98 | 7.42 |
| 948-7210 | 2201 | H | 10 | SPST-NC | Red | 31/64 | 1.176 | 1.903 | 13.12 | 12.13 | 11.28 |
| 948-7211 | 2202 | H | 10 | SPST-NC | Black | 31/64 | 1.176 | 1.903 | 13.99 | 12.79 | 11.14 |
| 948-7213 | 46-05-05-502-0707 | J | 1/4 | SPDT-BBM | Black | 0.440 x 0.516 | 1.179 | 1.527 | 13.15 | 12.98 | 11.33 |
| 948-7214 | 46-05-05-502-0303 | J | 1/4 | SPDT-BBM | Red | 0.440 x 0.516 | 1.179 | 1.527 | 13.15 | 12.98 | 11.33 |
| 948-7215 | 46-05-05-502-0707 | J | 1/4 | SPDT-BBM | Black | 0.440 x 0.516 | 1.465 | 1.813 | 18.72 | 17.31 | 16.09 |
| 948-7217 | 46-05-08-502-0707 | J | 1/4 | DPDT-BBM | Black | 0.565 x 0.641 | 1.188 | 1.536 | 17.48 | 16.34 | 14.46 |
| 948-7218 | 46-05-08-502-0303 | J | 1/4 | DPDT-BBM | Red | 0.565 x 0.641 | 1.188 | 1.536 | 15.70 | 14.52 | 13.50 |
| 948-7221 | 30-05-04-502-0303 | J | 1 | SPST-NO | Red | 0.440 x 0.516 | 1.132 | 1.480 | 26.13 | 24.08 | 22.33 |
| 948-7222 | 39-251 Red | K | 1/4 | SPDT-BBM | Red | PC | — | 0.328 | 2.13 | 1.97 | 1.83 |

5

Series 62 Optical Encoder

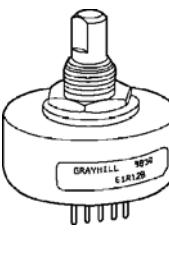


Series 62A is a compact, 1/2" package with proven reliability. Available with or without integrated pushbutton in 16, 24 and 32 detent positions, with maximum 24" cable with connector available in 1/2" increments (contact Allied or Grayhill for special lengths). Produces a standard quadrature two bit code illustrated above.

| Stock No. | Mfr.'s Type | Positions | Terminations | EACH | |
|-----------|---------------|-----------|--------------------|-------|-------|
| | | | | 1-24 | 25-99 |
| 948-8000 | 62A11-02-060C | 32 | 6" Cable/Connector | 37.23 | 34.42 |
| 948-8001 | 62A11-02-060S | 32 | 6" Stripped Cable | 37.23 | 34.42 |
| 948-8002 | 62A15-02-060C | 24 | 6" Cable/Connector | 37.23 | 34.42 |
| 948-8003 | 62A15-02-060S | 24 | 6" Stripped Cable | 37.23 | 34.42 |
| 948-8005 | 62A22-02-060C | 16 | 6" Cable/Connector | 37.23 | 34.42 |
| 948-8006 | 62A22-02-060S | 16 | 6" Stripped Cable | 37.23 | 34.42 |

**Series 61
High Resolution Optical Encoders**

Light passage is allowed or interrupted as switch is operated. Provides million-cycle life. Encoders produce a 2-bit, 4-state code. The code repeats every 4 positions. Number of changes and direction of rotation can be sensed. Switches include Schmitt Trigger outputs and are available in 25, 32, 50, 64, 100 and 256 cycles per revolution. All units require a 5 VDC external source. Panel mount versions require user-supplied pull-up resistors dependent on the type of logic that is used. **Switching Current: 30 mA max. Temperature Range: -40°C to +65°C.**



| Stock No. | Mfr.'s Type | Position | Termination | EACH | |
|-----------|-------------|----------|--------------------|-------|-------|
| | | | | 1-9 | 10-24 |
| 948-2027 | 61R64 | 64 | Switch pins | 64.13 | 51.31 |
| 948-2028 | 61R64-050 | 64 | 5" Cable/Connector | 69.72 | 55.81 |
| 948-2029 | 61R100 | 100 | Switch pins | 64.13 | 51.31 |
| 948-2031 | 61R128 | 128 | Switch pins | 64.13 | 51.31 |
| 948-2032 | 61R128-050 | 128 | 5" Cable/Connector | 69.72 | 55.81 |

2 Series Test Clips

29 Series Binding Posts



- Straight Skirt Binding Posts Rated Up To 15 A For 3/16" Panels (29-1)
- 20 A Push-Post™ Has Spring Pressure To Assure Positive Contact; In Standard (29-100), Capless (29-110), and Insulated (29-104) Versions

| Stock No. | Mfr.'s Type | Cap Color | Mounting Hole Dia. (in.) | EACH | | |
|-----------|-------------|-----------|--------------------------|------|--|--|
| | | | | | | |