



# Momentary Switches

**Push Button**

**Pull Actuated**

**Plasticized**

**Marine Construction**



## Heavy Duty Momentary Push Button Switches • For applications to 36 VDC

Off-On, normally Off • On with button depressed, spring return to Off

Silver contacts • Chrome plated button and face nut, except where noted.

### **No. 9095**

**Mounting stem:** 5/8"-32, 2 1/32"  
(16.66mm) long.

**Terminals:** two screw.



### **No. 90036-02**

Same as No. 9095 except with two blade terminals to fit Cole Hersee No. 30208 or Packard No. 2973407 two way connectors.

### **No. 9216**

Same as No. 9095 except with "O" ring seal in mounting stem for weatherproof protection.

### **No. 9216-03**

Same as No. 9216 except with protective cap and mounting nut assembly (No. 83280-03).



### **No. 9245**

Same as No. 9095 except with protective rubber cap (No. 407-03).



### **No. 9244**

Same as No. 9245 except two #10-32 stud terminals with hex nuts and lockwashers.



### **No. 9244-02**

Same as No. 9244 except with protective cap and mounting nut assembly (No.83280-03).

### **No. 9155**

**Terminals:** two screw with lock washers.

**Mounting stem:** 5/8"-32, 2 1/32"  
(16.66mm) long.

**Button:** large 1 5/16" diameter button.



**No. 9231** Recessed face nut to prevent accidental actuation.

**Terminals:** two screw.

**Mounting stem:** 5/8"-32, 2 1/32"  
(16.66mm) long.



### **No. 90000-01**

Same as No. 9231 except with-O ring seal in mounting stem for weatherproof protection.

### **No. 90030**

**Terminals:** two screw.

**Mounting stem:** 5/8"-32, 2 1/32"  
(16.66mm) long.

**Button:** plastic, with protective cap and mounting nut assembly (No. 83280-03).



### **No. 90030-01**

Same as No. 90030 except with special oil resistant cap (No. 83280-05).

### **No. 90030-04**

Same as No. 90030 except with red cap (No. 83280-02).

### **No. 90011**

**Terminals:** two male button head, accept Packard connector #2962679 or equivalent.

**Mounting stem:** 5/8"-32, 5/8"  
(15.87mm) long.

**Button:** plastic, 1 5/32" (11.90mm) diameter, accepts No. 83280 cap and mounting nut assembly.

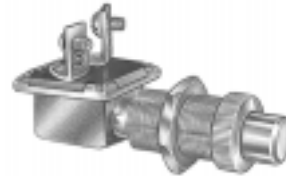


### **No. 9044**

**Terminals:** two screw.

**Mounting stem:** 5/8"-32, 1.06"  
(26.93mm) long.

**Sealing:** gasket seal in case.



### **No. 9044-02**

Same as No. 9044 except with protective cap and mounting nut assembly (No.83280-03).

**No. 9023** Heavy duty with copper alloy contacts.

**Terminals:** two screw.

**Mounting stem:** 5/8"-32, .87"  
(22.09mm) long.

### **No. 9023-A**

Same as No. 9023 except with silver contacts for applications up to 36 VDC.



### **No. 9023-09**

Same as No. 9023 except with protective cap and mounting nut assembly (No.83280-02).

### **No. 9238**

Same as No. 9023 except with blade terminals.

### **No. 9238-01**

Same as No. 9238 except with protective cap and mounting nut assembly (No.83280-03).

Available with protective caps for moisture and dirt protection. Please see page 62 for complete cap information.

Weatherproof/dustproof  
Cap & Mounting Nut Assembly.

No. 83280 gray, No. 83280-02 red,  
No. 83280-03 black, No. 83280-05 oil resistant.



Rubber caps

No. 407-01 gray, No. 407-03 black.  
Fit over special face nut supplied  
with switches.



Momentary Push Button Switches

On-Off, normally On • Off with button depressed, spring return to On.

Chrome plated button and face nut, except where noted.

**No. 9115**

**Terminals:** two screw with lockwashers.

**Mounting stem:** 5/8"-32, 7/8" (22.22mm) long.

⊖ **No. 90028**

Same as No. 9115 except with blade terminals.



**No. 90002**

Weatherproof and dustproof.

**Terminals:** two screw with lockwashers.

**Mounting stem:** 5/8"-32 thread, 1 1/16" (26.90mm) long.

**Sealing:** gasket sealed case, "O" ring in mounting stem.

⊖ **No. 90002-01**

Same as No. 90002 except with silver contacts for extra heavy duty applications up to 36 VDC.



**No. 91126**

**Terminations:** two plasticized wire leads 7" (177.80mm) long.

**Mounting stem:** 7/16"-20 thread, .44" (11.17mm) long.

**Sealing:** plasticized body for moisture and dirt protection.

**Button:** steel, .38" (9.65mm) diameter.



**No. 90043**

**Terminals:** two blade, mate with 2 pole Packard connector #2977647 or equivalent.

**Mounting stem:** 5/8"-32 thread, .625" long.

**Sealing:** gasket seal in case.

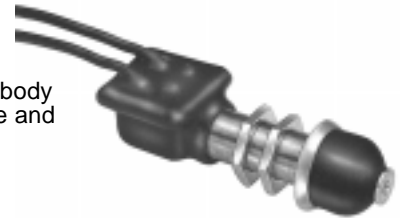
**Cap:** rubber, snaps into special groove and is secured to mounting stem by a deep threaded nut for positive seal.

**Plunger:** steel, protrudes through cap.



**No. 90043-07**

Same as No. 90043-01 except with plasticized body sealed against moisture and dirt and two 18 gauge plasticized wire leads 7" (177.80mm) long.



**No. 9212**

**Terminals:** two blade.

**Mounting stem:** 7/16"-20 thread, 1/2" (12.70mm) long.

**Plunger:** 1/2" (12.70mm) long with nylon cap.



Momentary Push Button Switches with Imprinted Actuator Buttons

Function permanently embossed in white on color coded buttons for easy identification.

**Terminals:** two screw with lockwashers.

**Mounting stem:** 7/8"-24 thread, keyed to prevent switch from turning, mount in panels .04" - .10" thick.

**Contacts:** silver.

**Button:** impact resistant molded plastic, repels oil, water, etc. Keyed to assure upright positioning of imprint.

**Housing:** die cast, with knurled aluminum face nut.

**Dimensions:** 2 7/32" L x 1 1/8" D.



**No. 90047**

Engine Start black button.



**No. 90048**

Engine Stop red button.



**Weatherproof for exposed areas**

With special face nut with built in lip-seal for weatherproof protection.

⊖ **No. 90047-01**

Engine Start, black button.

⊖ **No. 90048-01**

Engine Stop, red button.

Compact Design Momentary Switches • Push to On, spring return to Off

**No. 9011**

**Terminals:** two screw.

**Mounting stem:** 7/8"-20, 3/8" (9.52mm) long.

**Construction:** aluminum button and face plate.



**No. 9186**

**Terminals:** two female bullet.

**Mounting:** snaps into .90" (22.86mm) to .93" (23.62mm) diameter hole. Panel thickness .03" (.76mm) to .12" (3.05mm).

**Construction:** plastic plunger and body, chrome plated face plate.



**No. 9100**

Push switch for AC or DC.

**Terminals:** two screw.

**Mounting stem:** 15/32"-32, 9/16" (14.28mm) long.

**Construction:** plastic body, nickel plated plunger.

UL approved: 6 amps-125V, 3 amps-250V.



## Two Circuit Momentary Push Button Switches

Energize two circuits simultaneously,  
Off-On, normally Off.  
On with plunger depressed, spring return to Off.

### **No. 9165**

**Terminals:** three screw with lockwashers.  
**Mounting stem:** 5/8"-32 thread, .87" (22.09mm) long with two steel hex nuts and face nut.



### **No. 9276**

**Terminals:** three blade.  
**Mounting stem:** 5/8"-32 thread, 2 1/32" (16.66mm) long.  
Contacts: silver for extra heavy duty applications to 36 VDC.



### **No. 9276-09**

Same as No. 9276 except with three screw terminals and protective cap and nut assembly (No. 83280).



## Two Circuit Momentary Switch

On-Off, normally On  
Off with plunger depressed, spring return to On.

**No. 9211** Popular for school bus stepwell and door control.

**Terminals:** four blade.  
**Mounting stem:** 7/16"-20 thread.  
**Button:** .33" (8.38mm) diameter.



## Momentary Pull Switches

Normally Off • Pull to On, spring return to Off.

### **No. 9109**

**Terminals:** two screw with lockwashers.  
**Mounting stem:** 1/2"-20 thread, 5/8" (15.87mm) long.  
**Actuation:** 3/32" (2.38mm) hole through shaft for attaching cable or lever.



### **No. 9071**

Same as No. 9109 except OFF with shaft pulled out, spring return to ON

## Momentary Grounding Switches

Self grounding in metal panels.

Contacts normally open,  
Contacts close (terminal to ground) with plunger depressed, spring return to open.

### **No. 9035**

**Terminal:** one screw with lockwasher.  
**Mounting stem:** 5/8"-32 thread, 7/8" long.  
**Button:** chrome plated.



### **No. 90012**

Same as No. 9035 except with one blade terminal.

### **No. 9059**

**Terminal:** one bullet.  
**Mounting:** snaps into 15/16" (23.81mm) diameter hole.  
**Button:** chrome plated brass with chrome plated face plate.



### **No. 92118-06**

**Terminal:** one blade.  
**Mounting stem:** 3/8"-24 UNF-2A thread, 1/4" long.  
**Sealing:** gasket in case.



## Replacement Rubber Caps

**No. 407-01** Gray rubber cap. **No. 407-03** Black rubber cap.



## Weatherproof/Dustproof Caps

Fit Cole Hersee switches and all other momentary push button switches with 5/8"-32 thread mounting stem.

### **No. 83280**

Cap is permanently fastened to mounting nut by rolled brass bezel.  
Deep threaded 5/8"-32 aluminum mounting nut assures positive seal.  
Durable, resilient grey rubber cap.

### **No. 83280-02**

Same as No. 83280 except with red cap.

### **No. 83280-03**

Same as No. 83280 except with black cap.



### **No. 83280-05**

Oil resistant brown cap molded of special compound "Hydrin" which provides excellent resistance to fuel oils. For use on fuel oil tankers, delivery trucks and other equipment where fuel oil may be prevalent.

Marine Construction Momentary Push Button Switches • For to 6-36 VDC applications.

SPST • Normally Off • Off - Momentary On • On with button depressed, spring return to Off

Corrosion resistant brass case, plunger button, and mounting hardware • Moisture repellent insulators.

Chrome plated buttons and face nuts except where noted.

**Extra Heavy Duty Electrical Rating:** 35 amps at 12 VDC.



**No. M-490**

**Terminals:** two brass screw.

**Mounting stem:** brass, 5/8"-32, 1 3/8" (34.92mm) long, fits panels through 1" (25.40mm) thick.

**Contacts:** silver.

**Insulator:** moisture resistant molded plastic with protective barrier between terminals.



**No. M-626**

Same as No. M-490 except with No. 407-03 black moisture repellent rubber cap which snaps over face nut.



**No. M-626-02**

Same as No. M-490 except with protective black rubber cap and mounting nut assembly (No. 83280-03).



**No. M-612**

Same as No. M-490 except with recessed plunger button within oversized face nut to prevent accidental actuation.



**No. M-491**

Same as No. M-490 except with large 15/16" (23.81mm) diameter anodized aluminum button.

**Heavy Duty Electrical Rating:** 10 amps at 12 VDC.



**No. M-492**

**Terminals:** two brass screw.

**Mounting stem:** brass, 5/8"-32, 1 3/8" (34.92mm) long, fits panels through 1" (25.40mm) thick.

**Insulator:** moisture resistant molded plastic.

**⊖ No. M-492-01**

Same as No. M-492 except with blade terminals.



**No. M-485**

**Terminals:** two brass screw.

**Mounting stem:** brass, 5/8"-32, 1" (25.40mm) long, fits panels through 3/4" (19.05mm) thick.

**Sealing:** gasket sealed case.

**Insulator:** moisture resistant molded plastic.

**No. M-485-01**

Same as No. M-485 except with blade terminals.



**No. M-524**

Same as No. M-485 except with No. 407-03 black moisture repellent rubber cap which snaps over face nut.



**⊖ M-485-02**

Same as No. M-485 except with protective rubber cap and mounting nut assembly (No. 83280-03).

### Plasticized Marine Construction Momentary Switch • SPST • Normally Off

Off - Momentary On • On with button depressed, spring return to Off

Electrical Rating: 10 amps at 12 VDC.

**No. M-608**

**Terminations:** two 18 gauge wire leads, 12" (304.80mm) long.

**Mounting stem:** brass,  $\frac{5}{8}$ "-32,  $\frac{15}{16}$ " (23.81mm) long, fits panels through  $\frac{1}{2}$ " (12.70mm) thick.

**Sealing:** plasticized body sealed against moisture and dirt, No. M-407-03 black moisture repellent rubber cap snaps over face nut.



### Marine Construction Momentary Switches • SPST • Normally On

On - Momentary Off • Off with button depressed, spring return to On

Electrical Rating: 10 amps at 12 VDC.

**No. M-639**

**Terminals:** two brass screw.

**Mounting stem:** brass,  $\frac{5}{8}$ "-32, 1" (25.40mm) long, fits panels through  $\frac{3}{4}$ " (19.05mm) thick.

**Sealing:** gasket sealed case.



Electrical Rating: 10 amps at 12 VDC.

**No. M-914-01**

**Terminals:** two screw.

**Mounting stem:** brass,  $\frac{3}{8}$ "-32, 1" (25.40mm) long, fits panels through  $\frac{3}{4}$ " (19.05mm) thick.

**Sealing:** gasket sealed case.

**Plunger:** has nylon cap.



### Momentary Windlass Switch • For 6-36 VDC systems

Off-On, normally Off • On with button depressed, spring return to Off • Brass case and mounting hardware.

**No. 9250**

**Terminals:** two brass screw.

**Mounting:** brass stem,  $\frac{5}{8}$ "-32 thread,  $\frac{7}{16}$ " (11.11mm) long, fits mounting plate up through  $\frac{3}{16}$ " (4.76mm) thick. Normally mounted vertically, typical mounting plate and rubber cover shown in phantom (not supplied).

**Button:** Anodized aluminum  $\frac{15}{16}$ " (23.81mm) diameter. Plunger button loose, must be held in place with rubber cover.

**Contacts:** silver.

**Insulators:** moisture repellent with protective barrier between terminals.



### Momentary Pull Switch • For 6-36 VDC systems • Brass case and mounting hardware

Pull to On, spring return to Off

**No. M-486**

**Terminals:** two brass screw.

**Mounting stem:** brass,  $\frac{3}{8}$ "-32, 1  $\frac{1}{4}$ " (31.75mm) long, fits panels through  $\frac{7}{8}$ " (22.22mm) thick.

**Knob:** chrome plated brass embossed "PULL", knob face diameter  $\frac{7}{8}$ " (22.22mm).

**Insulator:** moisture repellent.



### Horn Buttons

**No. 96100**

**Terminals:** two screw.

**Mounting:** mounts on steering columns up to 1  $\frac{1}{2}$ " (38.10mm) diameter or on a flat surface.

**Button:** black plastic,  $\frac{13}{16}$ " (20.63mm) diameter.



**No. 96101**

Same as No. 96100 except with integral bracket for panel mounting.



**No. 96102**

**Terminals:** two screw.

**Mounting:** mounts on steering columns up to 1  $\frac{1}{2}$ " (38.10mm) diameter.

**Button:** ivory plastic, 1  $\frac{3}{4}$ " (44.45mm) diameter.

