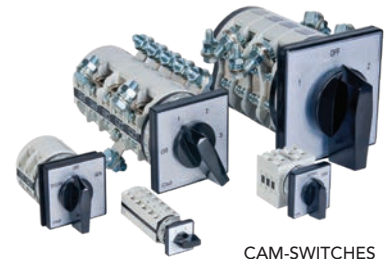




- Front mount
- Base mount adapter
- EN/IEC 60947-1, EN/IEC 60204-1 approved, CSA 22.2No14
- CE Marked, and UL 508 approved
- Short circuit rated
- Can be used as: ON-OFF, changeover, Multi-step, code, gang, instrument, and motor switches
- 30, 45, 60, or 90 degree angles with a maximum of 12 switching positions



CAM-SWITCHES

Item Number	Action	Poles	Positions	Price
<b>Refer to page 231 for wiring diagrams.</b>				
<b>20 Amp</b>				
N20-61325	Off-1-2-3, 90°	1	3 + off (L1, L2, L3)	\$99.00
N20-61026-09s	1-Off-2, 60°	2	2 + off	\$123.75
N20-61080-09S	Off-1-2-3, 60°	2	3 + off	\$172.84
N20-61081-09S	Off-1-2-3-4, 60°	2	4 + off	\$215.19
N20-61313-10	L3L1-L2L3-L1L2-Off-L1N-L2N-L3N	2	6 + off (LL/LN)	\$88.00
N20-61101-09S	Off-1-2-3-4, 60°	3	4 + off	\$297.00
N20-61100-09S	Off-1-2-3, 60°	3	3 + off	\$250.25
N20-61028-09S	1-Off-2, 60°	4	2 + off	\$206.25
N20-61131-09S	Off-1-2-3, 60°	4	3 + off	\$297.00
N20-61132-09S	Off-1-2-3-4, 60°	4	4 + off	\$394.53
<b>30 Amp</b>				
N25-61026-00S	1-Off-2, 60°	2	2 + off	\$85.22
N25-61038-00S	1-2, 60°	2	2 & no off	\$85.22
N25-61080-00S	Off-1-2-3, 60°	2	3 + off	\$114.18
N25-61039-00S	1-2, 60°	3	2 & no off	\$114.18
N25-61100-00S	Off-1-2-3, 60°	3	3 + off	\$172.01
<b>50 Amp</b>				
N40-61026-06S	1-Off-2, 60°	2	2 + off	\$147.18
N40-61080-00S	Off-1-2-3, 60°	2	3 + off	\$196.52
N40-61027-06S	1-Off-2, 60°	3	2 + off	\$196.52
<b>60 Amp</b>				
N63-61026-06S	1-Off-2, 60°	2	2 + off	\$190.99
N63-61038	1-2, 60°	2	2 & no off	\$190.99
N63-61080-00S	Off-1-2-3, 60°	2	3 + off	\$175.56
N63-61069-00S	1-2-3, 60°	2	3 & no off	\$175.56
N63-61027-06S	1-Off-2, 60°	3	2 + off	\$263.34
N63-61081-00S	Off-1-2-3-4, 60°	2	4 + off	\$335.69
N63-61100-15	Off-1-2-3, 60°	3	3 & no off	\$408.05
N63-61028-06S	1-Off-2, 60°	4	2 + off	\$324.50
N63-61131	Off-1-2-3, 60°	4	3 + off	\$408.48

Images are representative of products listed and may not be actual product.

# Switches

## ROTARY

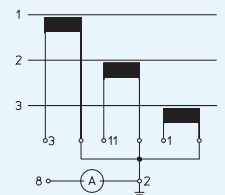
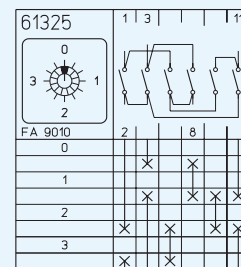
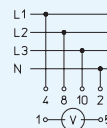
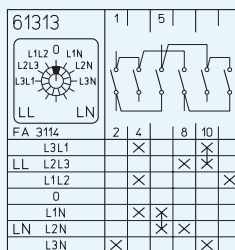
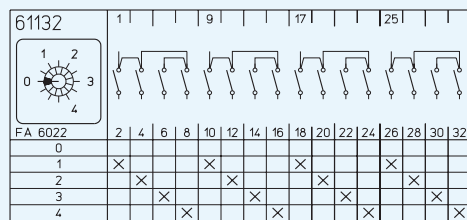
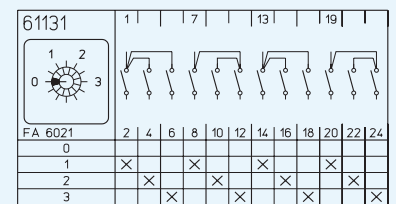
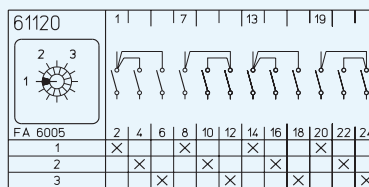
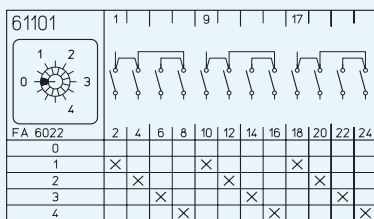
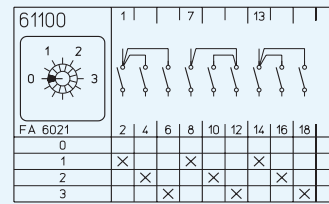
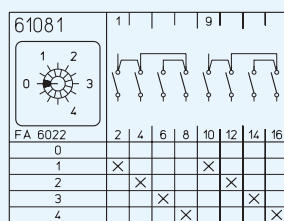
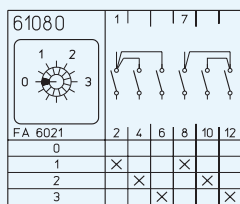
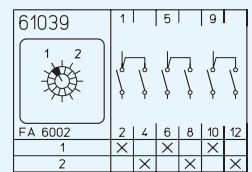
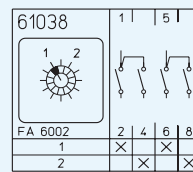
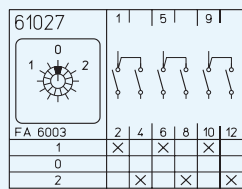
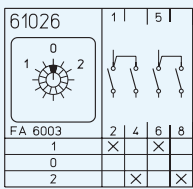
### CSii (Continued)

Item Number	Action	Poles	Positions	Price
<b>85 Amp</b>				
N80-61026-07S	1-Off-2, 60°	2	2 + off	\$398.75
N80-61027-07S	1-Off-2, 60°	3	2 + off	\$541.50
N80-61101	Off-1-2-3-4, 60°	3	4 + off	\$962.50
<b>130 Amp</b>				
N125-61026-07S	1-Off-2, 60°	2	2 + off	\$400.95
N125-61038-02S	1-2, 60°	2	2 & no off	\$400.95
N125-61080	Off-1-2-3, 60°	2	3 + off	\$547.31
N125-61081-02S	Off-1-2-3-4, 60°	2	4 + off	\$547.01
N125-61027-07S	1-Off-2, 60°	3	2 + off	\$561.96
N125-61100-13	Off-1-2-3, 60°	3	3 + off	\$839.99
N125-61101-02S	Off-1-2-3-4, 60°	3	4 + off	\$1,001.11
N125-61028-07S	1-Off-2, 60°	4	2 + off	\$723.01
N125-61131	Off-1-2-3, 60°	4	3 + off	\$1,015.69
<b>200 Amp</b>				
A200-61026-07S	1-Off-2, 60°	2	2 + off	\$833.09
A200-61038	1-2, 60°	2	2 & no off	\$753.70
A200-61080	Off-1-2-3, 60°	2	3 + off	\$1,135.20
A200-61081-02S	Off-1-2-3-4, 60°	2	4 + off	\$1,437.40
A200-61027-07S	1-Off-2, 60°	3	2 + off	\$1,175.93
A200-61100	Off-1-2-3, 60°	3	3 + off	\$1,799.69
A200-61101-02s	Off-1-2-3-4, 60°	3	4 + off	\$2,142.61
<b>240 Amp</b>				
Z315-61080-02S	Off-1-2-3, 60°	2	3 + off	\$1,866.73
Z315-61081	Off-1-2-3-4, 60°	2	4 + off	\$2,484.49
Z315-61027-02S	1-Off-2, 60°	3	2 + off	\$1,866.73
Z315-61101-02S	Off-1-2-3-4, 60°	3	4 + off	\$3,525.56

List pricing in catalog is subject to change without notice.

## CSii Switching Diagram

Wiring diagram for rotary switches on pages 229 and 230.



# Switches

## ROTARY

# Kraus and Naimer

- Finger proof terminals
- Can be used as control switches, instrumentation switches, or motor control switches
- Supplied with open terminals to facilitate wiring
- VDE 0106, part 100(VBG 04) protected
- IEC 60947-3 and VDE 0660 part 107 approved
- Gold terminals (CA4 Series Only)
- Available in 30, 45, 60, and 90 degrees
- CA and C style switches are designed for universal application. They are recommended for instrument, isolator, double throw, and motor controls
- CH switches are ideally suited for control and instrumentation applications they are finger proof and conveniently accessible for wiring and delivered open



KRAUS AND NAIMER

Item Number	Action	Poles	Positions	Price
<b>10 Amp</b>				
<b>Meter switch with off</b>				
CA4-1-A260	Off-1-2, 60°	2	2 + off	\$64.58
CA4-1-A261	Off-1-2-3, 45°	2	3 + off	\$83.75
CA4-1-WAA262	Off-1-2-3-4, 30°	2	4 + off	\$101.54
CA4-1-WAA480	Off-1-2, 60°	4	2 + off	\$101.54
CA4-1-WAA481	Off-1-2-3, 45°	4	3 + off	\$138.26
CA4-1-WAA482	Off-1-2-3-4, 30°	4	4 + off	\$174.90
<b>25 Amp</b>				
CH16-A200-720E	Off-1, 60°	1	1 + off	\$66.20
CH16-A201-720E	Off-1, 60°	2	1 + off	\$75.84
CH16-A202-720E	Off-1, 60°	3	1 + off	\$97.51
<b>30 Amp</b>				
CA25-A211	1-Off-2, 60°	2	2 + off	\$157.70
CA25-A261	Off-1-2-3, 45°	2	3 + off	\$202.23
CA25-WAA262	Off-1-2-3-4, 30°	2	4 + off	\$246.65
CA25-A212	1-Off-2, 60°	3	2 + off	\$202.23
CA25-A281	Off-1-2-3, 45°	3	3 + off	\$278.07
<b>35 Amp</b>				
C26-A211	1-Off-2, 60°	2	2 + off	\$170.53
C26-A261	Off-1-2-3, 45°	2	3 + off	\$216.96
C26-A212	1-Off-2, 60°	3	2 + off	\$216.96

List pricing in catalog is subject to change without notice.

## Kraus and Naimer (Continued)

Item Number	Action	Poles	Positions	Price
<b>65 Amp</b>				
C42-A211	1-Off-2, 60°	2	2 + off	\$282.55
C42-A261	Off-1-2-3, 45°	2	3 + off	\$363.28
C42-A212	1-Off-2, 60°	3	2 + off	\$363.28
C42-A281	Off-1-2-3, 45°	3	3 + off	\$498.50
C42-WAA282	Off-1-2-3-4, 30°	3	4 + off	\$604.80
C42-A213	1-Off-2, 60°	4	2 + off	\$444.01
C42-US20200	Off-S1-S1&S2-Gen	4	3 + off	\$545.22
C42-US20060-700	Sh1-Sh1&2-Gen	4	3 without off	\$554.07
<b>100 Amp</b>				
C80-A211	1-Off-2, 60°	2	2 + off	\$507.58
C80-A261	Off-1-2-3, 45°	2	3 + off	\$680.14
C80-WAA262	Off-1-2-3-4, 30°	2	4 + off	\$852.23
C80-A212	1-Off-2, 60°	3	2 + off	\$687.71
C80-A281	Off-1-2-3, 45°	3	3 + off	\$966.73
C80-WAA282	Off-1-2-3-4, 30°	3	4 + off	\$1,204.93
C80-A213	1-Off-2, 60°	4	2 + off	\$867.84
<b>150 Amp</b>				
C125-A211	1-Off-2, 60°	2	2 + off	\$867.84
C125-A261	Off-1-2-3, 45°	2	3 + off	\$1,150.40
C125-WAA262	Off-1-2-3-4, 30°	2	4 + off	\$1,433.02
C125-A212	1-Off-2, 60°	3	2 + off	\$1,180.67
C125-A281	Off-1-2-3, 45°	3	3 + off	\$1,622.66
C125-WAA282	Off-1-2-3-4, 30°	3	4 + off	\$2,009.32

# Switches

## ROCKER

### Carling Technologies

- Traditional rocker style
- Appropriate for use in those applications not requiring more stringent sealing protection
- Contact 10 amp-250 volt AC, 15 amp-125 volt AC, 15 amp, 12-30 volt DC
- UL and CSA Approved



TIG SERIES

Item Number	Terminal	Action	Pole	Price
TIGO5S	Screw	Reversing	2	\$37.80

### Blue Sea Systems Sub-Miniature

- Ideal for applications with back panel size constraints
- Temperature 32°F(0°C) to 185°F(85°C)
- Single pole has .187"(4.8mm) quick connect tabs
- Double pole has 6"(152mm) wire leads



OFF-ON



ON-ON



(ON)-OFF-(ON)

Item Number	Pole	Action	Amps @ 12VDC	Amps @ 24VDC	Amps @ 125VAC	Amps @ 250VDC	Price
<b>( ) Denotes Momentary Action</b>							
7480B	SP	OFF-ON	10	10	10	10	\$2.73
7481B	SP	OFF-(ON)	10	10	12	6	\$3.89
7482B	SP	ON-OFF-ON	10	8	8	8	\$3.89
7483B	SP	(ON)-OFF-ON	10	8	8	8	\$3.89
7484B	SP	(ON)-OFF-(ON)	10	8	8	8	\$3.89
7490B	DP	OFF-ON	5	5	8	4	\$4.59
7492B	DP	ON-OFF-ON	5	5	8	4	\$4.59
7493B	DP	ON-(ON)	5	5	8	4	\$4.59
7494B	DP	(ON)-OFF-ON	5	5	8	4	\$4.59
7495B	DP	(ON)-OFF-(ON)	5	5	8	4	\$4.47

List pricing in catalog is subject to change without notice.

## Contura III Series

- Constructed of thermoplastic polycarbonate
- Actuator comes in hard nylon cover or soft touch
- Dimensions overall in "(mm): 1.95(49.53) x 1.479(37.57)
- Contact rating: 20 amp, 4-14 volt DC, 15 amp, 115-28 volt DC
- Incandescent light rated 10,000 hours
- Internal sealed switch (adding a panel gasket will meet IP 67 rating)
- Ignition protected UL 1500/ISO8846
- CSA Certified



CONTURA SERIES

Item Number	Action	Price
<b>Single Pole Illuminated</b>		
<b>( ) Denotes Momentary Action, 12 volts incandescent light *12(2)</b>		
V1D1B60B	ON- OFF	\$6.08
V2D1B60B	(ON)-OFF	\$7.54
V6D1D66B*	ON-OFF- ON	\$9.72
V7D1B60B	ON-OFF- (ON)	\$8.45
<b>Single Pole Non-Illuminated</b>		
<b>( ) Denotes Momentary Action</b>		
V1D1S00B	ON-OFF	\$4.52
V2D1S00B	(ON)-OFF	\$5.23
V6D1S00B	ON-OFF-ON	\$17.50
V8D1S00B	(ON)-OFF- (ON)	\$6.40
V351S00B	ON-(OFF)	\$14.82
<b>Double Pole Illuminated</b>		
<b>( ) Denotes Momentary Action 12 volts incandescent light unless noted *24volts **12(2)</b>		
VABAB80B*	ON-OFF	\$12.16
VJD1D66B	ON-OFF-ON	\$11.67
VLD1D66B**	(ON)-OFF-(ON)	\$11.99
VMD1A60B	OFF-ON-(ON)	\$15.05
VAD1B60B	ON-OFF	\$8.91
<b>Double Pole Non-Illuminated</b>		
<b>( ) Denotes Momentary Action</b>		
VAD1S00B	ON-OFF	\$6.99
VJD1S00B	ON-OFF-ON	\$8.39
VLD1S00B	(ON)-OFF-(ON)	\$8.71
VADASW0B-CZD00	ON-OFF [LOCKS OFF]	\$21.55
VADASW0B-CZL00	ON-OFF [LOCKS ON]	\$21.55
VBD1S00B	(ON)-OFF	\$7.83
VDD1S00B	ON-ON	\$15.41

# Switches

## ROCKER

### Contura Actuators

- Standard contura actuator will come in hard nylon except where noted soft touch
- Ward's Marine can now offer custom laser engraved Contura III actuator (VVPZC00-000 only)
- Customization is available up to three lines of text or choose from our directory of international symbols
- Please call for more information, scheduling, or pricing



ILLUMINATED ACTUATORS



NON ILLUMINATED (BLACK IS ENGRAVABLE)

Item Number	Body	Lens (Slit Amt.)	Price
<b>Illuminated</b>			
VVCMC00	Black	Red(1)	\$1.60
VVCMH00	Gray	Red(1)	\$1.60
VVCMY00	White	Red(1)	\$1.60
VVCNC00	Black	Red(2)	\$1.60
VVCNH00	Gray	Red(2)	\$1.60
VVCNY00	White	Red(2)	\$1.60
VVCGY00	White	Green(1)	\$1.60
VVCHY00	White	Green(2)	\$1.60
VVCTY00	White	Blue(1)	\$1.60
VVCUY00	White	Blue(2)	\$1.60
<b>Non-Illuminated</b>			
VVCZB00	Black (Soft Touch)	--	\$5.00
VVCZC00	Black	--	\$1.60
VVCZH00	Gray	--	\$1.60
VVCZY00	White	--	\$1.60
VVCZS00	Red	--	\$2.35
<b>Custom</b>			
VVPZC00-000	Black	Laser Engraving Available	\$3.82
VVPZE00-000	Pewter	Laser Engraving Available	\$6.98

List pricing in catalog is subject to change without notice.



## Contura Accessories



PANEL MOUNTS



PANEL SINGLE MOUNT



PANEL SEAL



PANEL TOOL

Item Number	Description	Price
<b>Panel Mount Parts</b>		
VME	Panel end	\$1.76
VMM	Panel middle mount	\$1.63
VMS	Panel single mount	\$2.15
VPS	Panel seal	\$1.11
VRT	Actuator removal tool	\$6.27

## Sealed Toggle

- Contacts rated 15 amp, 250 volt AC
- Completely sealed switching chamber
- NEMA 3, 3R, 4, & 13 recognized
- CSA Certified
- IP637/68 Rated
- CE Approved
- Meets UL E12252
- Operating temperature -40°-160°F
- Mil-S-3950



SEALED

Item Number	Action	Position	Pole	Price
<b>Micro Switch NT Series</b>				
<b>( ) Denotes Momentary Action</b>				
1NT1-1	ON-OFF-ON	3	SPST	\$21.80
1NT1-2	OFF-ON	2	SPST	\$24.42
1NT1-6	(ON)-OFF	2	SPST	\$15.84
1NT1-7	(ON)-OFF-(ON)	3	SPDT	\$32.68
1TL1-2D	OFF-ON [LOCKS OUT OF CENTER]	2	SPDT	\$61.70
2NT1-2	OFF-ON	2	DPST	\$33.46
2NT1-1	ON-OFF-ON	3	DPDT	\$33.46
2NT1-7	(ON)-OFF-(ON)	3	DPST	\$36.82
2TL1-2	OFF-ON	2	DPST	\$48.50

Images are representative of products listed and may not be actual product.

# Switches

## TOGGLE

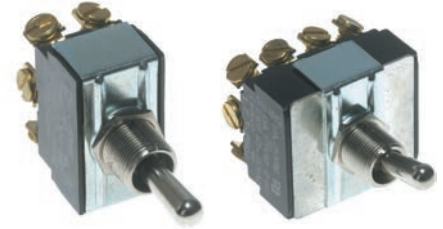
# Non-Illuminated

### F Series

- Single pole
- Ratings: 10 amp @ 250 volt AC; 15 amp @ 125 volt AC; 3/4HP @ 125-250 volt AC
- UL and CSA: 1000 volt life to dead metal parts
- 50k cycles maintained, 25k cycles momentary
- 0°F(-17.8°C) to 150°F(65.6°C)
- 1000 volt live to dead metal

### G Series

- Double pole
- Ratings: 10 amp @ 250 volt AC; 15 amp @ 125 volt AC; 3/4HP @ 125-250 volt AC
- 50k cycles maintained, 25k cycles momentary
- 32°F(0°C) to 185°F(85°C)
- UL/CSA: 1000 volt live to dead metal parts & opposite polarity
- VDE: 4000 volt live to dead metal parts, 1250 volt opposite polarity & open contacts



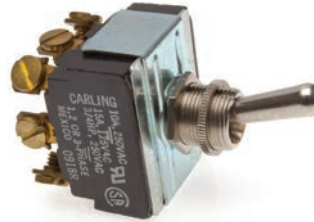
F AND G SERIES

Item Number	Action	Pole	Terminal	Price
<b>( ) Denotes Momentary Action</b>				
<b>F Series</b>				
2FAA04-78	ON-OFF	1P	Screw	\$9.07
2FA54-78	ON-OFF	1P	Screw	\$4.83
2FA53-78	ON-OFF	1P	.250 Tab	\$4.83
2FB53-73/TABS	ON-ON	1P	.250 Tab	\$7.35
2FC54-78	On-Off-On	1P	Screw	\$6.48
2FC53-78	On-Off-On	1P	.250 Tab	\$8.05
6FA54-78	(On)-Off	1P	Screw	\$8.44
6FB54-78	On-(On)	1P	Screw	\$17.15
6FC54-78	(ON)-OFF-(ON)	1P	Screw	\$8.93
6FC53-78	(ON)-OFF-(ON)	1P	.250 Tab	\$11.03
6FC58-78	ON-OFF-(ON)	1P	Screw	\$8.93
<b>G Series</b>				
2GE54-78	ON-ON-ON	1P	Screw	\$20.24
2GG54-78	ON-ON-OFF (Dual Circuit)		Screw	\$27.97
2GK51-78	ON-OFF	2P	.250 Tab	\$22.26

## Non-Illuminated (continued)

### H & I Series

- H Series 3 Pole, I Series 4 Pole
- Ratings: 10 amp @ 250 volt AC; 15 amp @ 125 volt AC; 3/4HP @ 125-250 volt AC, 1|2|3 phase
- 50k cycles maintained, 25k cycles momentary
- 32°F(0°C) to 185°F(85°C)



H AND I SERIES



G SERIES

Item Number	Action	Pole	Terminal	Price
<b>( ) Denotes Momentary Action</b>				
<b>G Series</b>				
2GK54-78	ON-OFF	2P	Screw	\$12.92
2GL54-78	ON-ON	2P	Screw	\$10.29
2GM51-78	ON-OFF-ON	2P	.250 Tab	\$8.47
2GM54-78	ON-OFF-ON	2P	Screw	\$10.33
2GO54-78	ON-OFF-ON (Reversing)	2P	Screw	\$19.54
6GO5S-78	(ON)-OFF-(ON) (Reversing)	2P	Screw	\$28.40
6GG5E-78	(ON)-ON-OFF (Dual Circuit)	2P	Screw	\$11.83
6GK5E-78	ON (ON)-OFF	2P	Screw	\$19.99
6GM5E-78	ON-OFF-(ON)	2P	Screw	\$19.92
6GM5M-78	(ON)-OFF-(ON)	2P	.250 Tab	\$21.07
6GM5S-78	(ON)-OFF-(ON)	2P	Screw	\$16.14
<b>H &amp; I Series</b>				
HL254-78	ON-ON	3P	Screw	\$33.30
HM254-78	ON-OFF-ON	3P	Screw	\$33.30
IL254-73	ON-ON	4P	Screw	\$31.71
IM254-78	ON-OFF-ON	4P	Screw	\$34.65

# Switches

## TOGGLE

# Illuminated

### LT Series

- Contains neoprene bushing seals for dust and moisture protection
- .250 Tab terminal connection
- Ratings: 10 amp @ 250 volt AC; 15 amp @125 volt AC; 3/4HP @ 125-250 volt AC, 15 amp @ 15-28 volt DC
- Single pole housed in a double pole base
- 1000 volt live to dead metal parts
- 32° F to 185° F (0° to 850°C)



LT SERIES

Item Number	Action	Pole	Actuator/Light	Price
<b>( ) Denotes Momentary Action</b>				
<b>LT Series</b>				
LT-1511-610-012	ON-OFF	1P	Satin/Red	\$12.53
LT-1511-620-012	ON-OFF	1P	Satin/Amber	\$12.53
LT-1511-630-012	ON-OFF	1P	Satin/Green	\$12.53
LT-1511-710-012	ON-OFF	1P	Black/ Red	\$12.53
LT-2561-701-012	ON-OFF-ON	2P	Black/Red	\$16.87
LT-1531-610-012	(ON)-OFF	1P	Satin/Red	\$33.74
LT-1581-601-012	(ON)-OFF-(ON)	1P	Satin/Red	\$20.48
LT-2561-601-012	ON-OFF-ON	1P	Satin/Red	\$44.80

# Accessories

### Boots

- Hexseal toggle switch boots are molded from a high tear strength silicone rubber bonded to a mounting nut
- Forms a watertight and dust tight seal against the front panel surface
- Resistant to: salt spray, sunlight, ozone, fungus, and most acid & lubricating oils

### Switch Guards

- For use with 2 or 3 position switches
- MS approved and QPL'd per MIL-G-7703
- Spring loaded to either close or lock in open position



HALF COVER

PIN HOLE GUARD

BOOTS

HINGED END GUARD

Item Number	Color	Price		
<b>Boots</b>				
81255	Black half cover	\$8.04		
C1131BK	Black	\$4.80		
C1131GY	Gray	\$5.08		
C1131WH	White	\$5.70		
Item Number	Color	Switch Positions	Keyway Tab Location	Price
<b>Switch Guards</b>				
8492K1	Black	2 or 3	Opposite pin hole	\$11.57
8497K1	Red	2	Opposite hinged end	\$19.46
8498K6	Red	2 or 3	Opposite hinged end	\$41.26

List pricing in catalog is subject to change without notice.

## Micro

- Reinforced mounting holes totally contained in case to provide maximum distance to mounting hardware
- Choice of U.S. #4 screw or metric 3mm screw
- Flame retardant, UL94V-0 self extinguishing case and cover
- Long life stainless steel spring mechanism
- NO/NC terminals, SPDT contacts
- Arc resistant case has internal barriers 4mm minimum between live parts and external hardware
- Single or double throw either N.O or N.C



BUTTON



LEVER



ROLLER



ROLLER LEVER 20AMP

Item Number	Actuator	Price
<b>Micro</b>		
D449-R1AA-G2	Button	\$13.60
D449-R1LD-G2	Lever	\$11.60
D449-R1RA-G2	Roller	\$12.65
<b>20 Amp</b>		
<b>Contact SPDT, 20A @ 480VAC and 20A @ 14VDC</b>		
A-20GV2-B7-K	Black Roller Lever	\$33.17

## EAO

- Stainless steel SUS 304
- Stainless steel chrome colored
- Soldering/ plug in terminals 2.8 x 0.5 mm or screw terminal
- Switching element: snap action
- NO/NC contact (changeover)
- IEC 60512-3 certified
- Voltage: 17VAC-240V
- Current: 50mA AC/DC- 3A
- Power: 1W(1VA)-720W(720VA)



82 SERIES

Item Number	Color	LED Voltage	Current Rating	Action	Price
82-5151-1113	Red	12	5A	Momentary	\$26.74
82-5151-1114	Red	24	5A	Momentary	\$26.74
82-5151-1123	Blue	12		Momentary	\$26.74
82-5151-1124	Blue	24	5A	Momentary	\$26.74
82-5151-2113	Red	12	5A	Maintained	\$26.74
82-5151-2114	Red	24	5A	Maintained	\$26.74
82-5151-2123	Blue	12	5A	Maintained	\$26.74
82-5151-2124	Blue	24	5A	Maintained	\$26.74

Images are representative of products listed and may not be actual product.

# Switches

## PILOT DUTY

# 16mm Illuminated

- IP65 and NEMA 4, 4X and 13
- LED light included
- Complete Units with quick connectors/solder tabs
- Plastic bezels designed for applications where the surface area is restricted
- CE, UL, CSA, and CCC Approved
- Flush mount



PUSHBUTTON



PILOT LIGHT

Item Number	Contacts	Lens Color	Price
<b>12/24 Volt LED Pushbutton</b>			
<b>( ) Denotes Momentary Action</b>			
XB6AF3B1B	NO	Green	\$39.81
XB6AF4B2B	NC	Red	\$39.81
XB6AF4B5B	NO/NC	Red	\$46.99
XB6AW3B1B	(NO)	Green	\$39.81
XB6AW4B2B	(NC)	Red	\$39.81
XB6AW5B1B	(NO)	Yellow	\$39.81
XB6AW6B1B	(NO)	Blue	\$39.81
<b>120 Volt LED Pushbutton</b>			
<b>( ) Denotes Momentary Action</b>			
XB6AF3G1B	NO	Green	\$39.81
XB6AF4G2B	NC	Red	\$39.81
XB6AF5G1B	NO	Yellow	\$39.81
XB6AW3G1B	(NO)	Green	\$39.81
XB6AW4G2B	(NC)	Red	\$39.81
XB6AW5G1B	(NO)	Yellow	\$39.81
XB6AW6G1B	(NO)	Blue	\$39.81
Item Number	Lens Color	Price	
<b>12/24 AC/DC Volt LED Pilot Light</b>			
XB6AV3BB	Green	\$24.48	
XB6AV4BB	Red	\$24.47	
XB6AV5BB	Yellow	\$24.47	
XB6AV6BB	Blue	\$24.47	
<b>120 Volt LED Pilot Light</b>			
XB6AV3GB	Green	\$24.47	
XB6AV4GB	Red	\$24.47	
XB6AV5GB	Yellow	\$24.47	
XB6AV6GB	Blue	\$24.47	

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## 16mm Non-Illuminated

- Pushbutton includes five or six colored caps: White, Green, Red, Yellow, Black and Blue
- Rotary selector switch positions maintained 60°, spring return 45°
- Both switches must be combined with complete bodies and contact blocks
- Specifically designed for applications with restricted surface area
- IP65 protection
- CE, UL, CSA, and CCC certified
- Flush mount

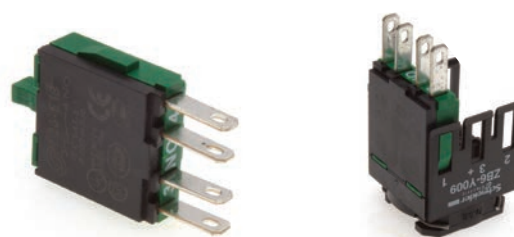


PUSHBUTTON

ROTARY

Item Number	Color/Shape	Action	Price
<b>Pushbutton</b>			
<b>( ) Denotes Momentary Action *Can be illuminated must order LED light module</b>			
ZB6AA9	6 Color caps including black	(ON)	\$18.74
ZB6AF9*	5 Color caps w/o Black	ON	\$18.74
<b>Rotary (Head Only)</b>			
ZB6AD23	Black/Round	3 Positions maintained	\$18.74
ZB6AD28	Black/Round	2 Positions maintained	\$18.74
Item Number	Description		Price
<b>Accessories</b>			
ZB6YA001	Circular and square head pushbutton and switch protective cover		\$17.68

## 16mm Contact Blocks



CONTACT BLOCK

CONTACT ASSEMBLY

Item Number	Contact	Contact Material	Price
<b>Contact Block Only</b>			
<b>Maximum three contacts per mounting base</b>			
ZB6E1B	NO	Silver Alloy	\$7.67
ZB6E2B	NC	Silver Alloy	\$7.67
ZB6E2E	NC	Gold Flashed	\$10.43
ZB6E1E	NO	Gold Flashed	\$10.43
<b>Complete Contact Assembly</b>			
<b>Assembly includes mounting base, quick connect solder tabs for push and selector switches</b>			
ZB6Z1B	NO		\$10.01
ZB6Z2B	NC		\$10.01

Images are representative of products listed and may not be actual product.

# Switches

## PILOT DUTY

# 22mm Illuminated

- Combine ease of installation with robustness
- Plastic bezels resistant to chemicals
- UL, CSA, and CE listed & certified
- IP 65
- NEMA: 1,2,3,4,12,13



Item Number	Color	Action	Price
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### Pushbutton

#### Use only with LED light module, ( ) Denotes Momentary Action

ZB5AW333	Green	(ON)	\$19.81
ZB5AW343	Red	(ON)	\$19.81
ZB5AH033	Green	ON/OFF	\$26.41
ZB5AH043	Red	ON/OFF	\$26.41
ZB5AH063	Blue	ON/OFF	\$26.54

#### Use only with incandescent, neon, or LED light module ( ) Denotes Momentary Action

ZB5AW31	White	(ON)	\$19.81
ZB5AW33	Green	(ON)	\$19.81
ZB5AW34	Red	(ON)	\$19.81

Item Number	Color	Positions	Action	Price
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### Rotary

#### Use only LED light module

ZB5AK1233	Green	2	Maintained	\$37.28
ZB5AK1243	Red	2	Maintained	\$37.28
ZB5AK1343	Red	3	Maintained	\$37.28
ZB5AK1333	Green	3	Maintained	\$37.28
ZB5AK1533	Green	3	Momentary: to center	\$54.32
ZB5AK1543	Red	3	Momentary: to center	\$54.32

Item Number	Color	Light Type	Price
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### Pilot Light

#### Corrosion resistant plastic body

ZB5AV03	Green	BA9 incandescent, Neon or LED	\$8.09
ZB5AV033	Green	Protected LED ONLY	\$8.09
ZB5AV043	Red	Protected LED ONLY	\$8.09
ZB5ZAV05	Yellow	BA9 incandescent, Neon or LED	\$8.09
ZB5AV063	Blue	Protected LED ONLY	\$8.09
ZB5AV07	Clear	BA9 incandescent, Neon or LED	\$8.09
ZB5AV013	White	Protected LED ONLY	\$8.09
ZB5AV04	Red	BA9 incandescent, Neon or LED	\$8.09
ZB5AV053	Yellow	Protected LED ONLY	\$8.09

List pricing in catalog is subject to change without notice.



## 22mm Non-Illuminated

- Combines ease of installation with robustness
- Plastic bezels resistant to chemicals
- UL, CSA, and CE Listed & Certified
- IP 65, IP 66 when booted
- NEMA: 1,2,3,4,12,13



TRADITIONAL METAL BODY PUSHBUTTON



BLACK PUSHBUTTON



WHITE PUSHBUTTON



MUSHROOM



ROTARY



JOYSTICK

Item Number	Color	Action	Price
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### Pushbutton

#### Corrosion resistant plastic body, ( ) Denotes Momentary action

ZB5AA9	6 Color caps	(ON)	\$14.40
ZB5AH02	Black	ON/OFF	\$18.74
ZB5AH03	Green	ON/OFF	\$18.74
ZB5AH04	Red	ON/OFF	\$18.74
ZB5AA7340	Green/Red	(ON)/(OFF)	\$37.81
ZB5AS834	Mushroom/Red	Twist to release	\$98.51

#### Traditional metal body, ( ) Denotes Momentary action

ZB4BA9	6 Color caps	(ON)	\$13.85
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Item Number	Positions	Action	Price
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### Rotary

#### Corrosion resistant plastic body

ZB5AD2	2	Maintained	\$19.72
ZB5AD3	3	Maintained	\$19.72
ZB5AD5	3	Momentary to center	\$31.31

#### Traditional metal body, ( ) Denotes Momentary action

ZB4BD2	2	Maintained	\$25.56
ZB4BD3	3	Maintained	\$25.56

Item Number	Directions	Description	Action	Price
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### Joystick

XD5PA22	2	1 step, NO per direction	Momentary	\$205.55
XD5PA24	4	1 step, NO per direction	Momentary	\$259.81

# Switches

PILOT DUTY

## 22mm Components



CONTACT BLOCK



COLLAR



INCANDESCENT LIGHT MODULE



LED LIGHT MODULE

Item Number	Contact	Price
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### Contact Blocks with Collar

#### Corrosion resistant plastic body

ZB5AZ101	NO	\$23.43
ZB5AZ105	NO/NC	\$40.68

### Contact Blocks

ZBE101	NO	\$13.48
ZBE102	NC	\$13.48
ZBE203	NO/NO	\$27.31
ZBE204	NC/NC	\$27.31

### Collar

ZB5AZ009		\$5.75
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Item Number	Contact Block	Bulb	Supply	Voltage	Price
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### Incandescent Light Module

#### Corrosion resistant plastic body

ZB5AW061	NO	Not included	Direct supply	≤ 250 VAC/VDC	\$58.58
ZB5AW041	NO	Included	Transformer	230-240 VAC, 50/60 Hz.	\$88.25
ZB5AV6	N/A	Not included	Direct supply	<250 VAC	\$41.11

Item Number	Supply Volts	Color	Price
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### LED Light Module

ZBVJ3	12 VAC/ VDC	Green	\$55.38
ZBVJ4	12 VAC/VDC	Red	\$55.38
ZBVB1	24 VAC/ VDC	White	\$55.38
ZBVBG1	24-120VAC/ VDC	White	\$55.38
ZBVBG3	24-120 VAC/ VDC	Green	\$55.38
ZBVBG4	24-120 VAC/ VDC	Red	\$55.38
ZBVBG5	24-120 VAC/ VDC	Yellow	\$55.38
ZBVBG6	24-120 VAC/ VDC	Blue	\$55.38
ZBVM1	230-240 VAC	White	\$55.38
ZBVM3	230-240 VAC	Green	\$55.38
ZBVM4	230-240 VAC	Red	\$55.38
ZBVM5	230-240 VAC	Yellow	\$55.38
ZBVM6	230-240 VAC	Blue	\$55.38

List pricing in catalog is subject to change without notice.

## 22mm Components (Continued)

Item Number	Description	Price
<b>Accessories</b>		
ZBPO	Clear boot for pushbutton	\$10.18

## Cole Hersee

- Push-pull switches
- Corrosion resistant brass case
- 10 amp @ 12 volt DC, 6-36 volt DC
- Copper alloy contacts
- SPST
- Chrome plated knob



M-482-BP



M-606-BP

Item Number	Case Type	Contacts	Price
M-482-BP	Gasket sealed	Off-On, normally off	\$26.00
M-606-BP	Plasticized	Off-On, normally off	\$28.15

## Cole Hersee

### Normally Off:

- SPST Off-Momentary On
- On with button depressed, spring return to off
- Corrosion resistant brass case, button and mounting hardware
- Moisture repellent insulators

### Normally On:

- SPST On-Momentary Off
- Off with button depressed spring return to on
- Corrosion resistant brass case and mounting hardware
- Gasket sealed case



M-608-BP



M-639



M-490



M-626BP



M-485



BOOTS

Item Number	Description	Size	Amps @ VDC	Button	Price
<b>Normally Off</b>					
M-490	Extra heavy duty with two brass screw terminals, fits panels up to 1" thick	5/8"-32, 1-3/8"	35@12, 20@24, 10@36	Chrome	\$24.80
M-626-BP	Same as M-490 but with black rubber cap	5/8"-32, 1-3/8"	35@12, 20@24, 10@36	Black cap	\$26.55
M-485	Heavy duty with 1" and gasket fits panels upto 3/4" thick	5/8"-32, 1"	10@12 5@24V	Chrome	\$21.93
M-608-BP	PVC coated body, two 12" 18AWG leads and black rubber cap fits panels up to 1/2" thick	5/8"-32, 15/16"	10@12 5@24V	Black cap	\$29.35
<b>Normally On</b>					
M-639	Chrome plated brass plunger, two brass screw terminals fits panels upto 3/4" thick	5/8"-32, 1"	10@12 5@24V	Chrome plunger	\$23.40
<b>Boots</b>					
83280	Red (02), Black (03), Gray				\$3.13

Images are representative of products listed and may not be actual product.

# Switches

PUSHBUTTON + KEY AND ACCESSORIES

## Hubbell

- 15/32 long nickel plated brass mounting stem
- Terminals .250" spade
- Rating: 12v 5amp



HORN

Item Number	Description	Price
<b>Horn Switch</b>		
<b>( ) Denotes Momentary Action</b>		
MH11	Single Pole, (NO)	\$11.96
MHB11	Black Boot for MH11	\$11.96

## Ignition

- 12 volt DC: 10 amp ignition, 5 amp start
- Key is removable in the OFF position
- Chrome plated brass facenut
- Mounting stem 13/16"-24, 1-7/32"(31mm) long, fits panels up to 1"(25.4mm) thick



KEY IGNITION



BOOT

Item Number	Positions	Amps @ 12VDC	Price
<b>Key</b>			
M-550	OFF-IGN-START	10	\$50.21
M-489-BP	OFF-ON	10	\$50.38
Item Number	Description	Price	
<b>Boots</b>			
83288	Chrome Plated Brass, 13/16"-24 thread	\$11.86	

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