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Cherry Electrical Products Corp. (Corporate Headquarters) USA 3600 Sunset Avenue, Waukegan, Illinois 60085
Cherry Semiconductor Corp. (Integrated Circuits)
Cherry Mikroschalter GmbH
Cherry Electrical Products Ltd
Hirose Cherry Precision Co., Ltd
Cherco Brasil Industria E Comercio LtdaBrazi Rua Laurea, 63, Santo Amaro, Sao Paulo CEP 04688

All Cherry products are designed and manufactured under the technical guidance of an experienced staff of mechanical, electrical, tool, industrial and manufacturing engineers. Personnel trained in many skills operate advanced assembly and fabrication machinery to provide our customers with the highest quality at prices that are truly competitive.

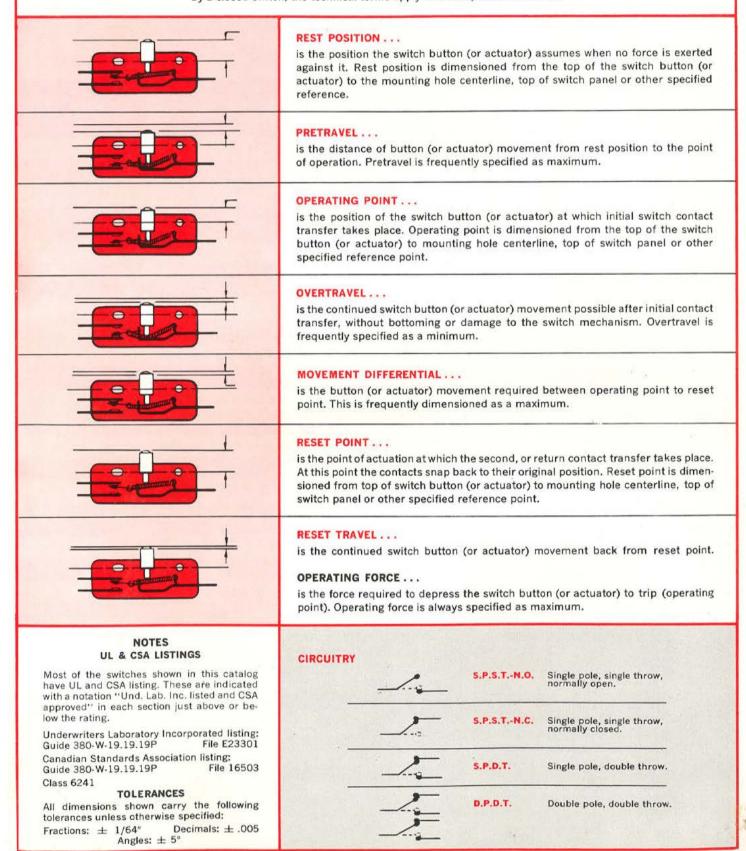
Cherry's product line includes:

- Custom Digital and Linear Integrated Circuits
- Lighted Pushbutton Switches
- Plasmalux Gas Discharge Display Panels
- Alphanumeric Display Systems
- Precision Snap Action Switches
- Line Interrupt Switches
- Low Energy Gold Crosspoint Contact Switches
- Keyboards and Keyboard Switches
- Matrix Selector Switches
- Thumbwheel, Leverwheel and Pushwheel Switches

For additional information on these other Cherry product lines, see page 30.

snap-action switch terms

Throughout this catalog various terms are used to describe each switch. Illustrated by a closed switch, the technical terms apply to all snap-action switches.



snap-action switch selector

SWITCH RATING*		Switch Switch Switch							
Elec	Electrical		Horsepower Operating Forcet Differ tall Available Switch Switch Operating Forcet Differ tall Available Type			Switch Series	Located on Page		
125 V AC	250 V AC	125 VAC	250 VAC	rorce	Differ tiai	Available		Number	Number
0.1 Amp.		_	_		Gold Crosspoint Contacts For Low Energy Circuits			26-27	
3 Amp	3 Amp	_	-	75 Grams	.010	S.P.D.T. and S.P.S.T.	Miniature	E22	10-11
3 Amp	3 Amp	-	-	15 Grams	.010	S.P.D.T. and S.P.S.T.	Light Force Miniature	E22 "X"	12-13
5 Amp	5 Amp	_	_	90 Grams	.004	S.P.D.T. and S.P.S.T.	Subminiature	E61	8-9
5 Amp	5 Amp	:	-	90 Grams	.004	S.P.D.T and S.P.S.T	Solid Base Subminiature	E91	6-7
5 Amp	5 Amp	-	- (4.0 inch gramstorque	3° Min.	S.P.D.T. and S.P.S.T.	Low torque	E51	18-19
5 Amp	-	-	-	3 Ozs.	.070	S.P.D.T. and S.P.S.T.	Light Force Open	S23	24
5 Amp	5 Amp	1/4	1/4	45 Grams	.010	S.P.D.T. and S.P.S.T.	Light Force Miniature	E23 "X"	12-13
5 Amp	5 Amp	1/4	1/4	6 Ozs.	.016	S.P.D.T. and S.P.S.T.	Miniature	E23	10-11
10 Amp	5 Amp	1/6	1/6	7½ Ozs.	.085	S.P.D.T. and S.P.S.T.	Miniature Open	S30	25
10 Amp	5 Amp	1/4	1/4	9½ Ozs.	.070	S.P.D.T. and S.P.S.T.	Basic Open	S25	24
10 Amp	10 Amp	1/3	1/3	15 Ozs.	.045	S.P.D.T. and S.P.S.T.	Panel Mount Pushbutton	E69	14-15
10 Amp	10 Amp	1/3	1/3	24 Ozs.	.075	D.P.D.T. and D.P.S.T.	Panel Mount Pushbutton	E79	16-17
10 Amp	10 Amp	1/2	1/2	75 Grams	.010	S.P.D.T. and S.P.S.T.	Light Force Miniature	E33 "X"	12-13
10 Amp	10 Amp	1/2	1/2	10 Ozs.	.016	S.P.D.T. and S.P.S.T.	Miniature	E33	10-11
10.1 Amp	10.1 Amp	1/4	-	212 Grams	.004	S.P.D.T. and S.P.S.T.	Subminiature	E62	8-9
10.1 Amp	10.1 Amp	1/4	1/4	300 Grams	.004	S.P.D.T.	Water Resistant	E72	25
11 Amp	11 Amp	1/4	28	212 Grams	.004	S.P.D.T. and S.P.S.T.	Solid Base Subminiature	E92	6-7
15 Amp	15 Amp	1/2	1/2	100 Grams	.010	S.P.D.T. and S.P.S.T.	Light Force Miniature	E34 "X"	12-13
15 Amp	15 Amp	1/2	1/2	14 Ozs.	.016	S.P.D.T. and S.P.S.T.	Miniature	E34	10-11
15 Amp	15 Amp	3/4	1.1/2	15 Ozs.	.015	S.P.D.T. and S.P.S.T.	Single Pole General Purpose	E13	20-21
15 Amp	15 Amp	3/4	1-1/2	30 Ozs.	.015	D.P.D.T. and D.P.S.T.	Double Pole General Purpose	E19	22-23
20 Amp	20 Amp	1	2	45 Ozs.	.015	D.P.D.T. and D.P.S.T.	Double Pole General Purpose	E20	22-23
25 Amp	25 Amp	1	2	30 Ozs.	.015	S.P.D.T. and S.P.S.T.	Single Pole General Purpose	E14	20-21

^{*} All snap-action switches are Underwriters Laboratory Inc. Inspected and Canadian Standard Assn. Approved.

To convert millimeters into inches multiply by 0.03937

[†] Movement Differential and Operating Forces shown are maximums (except as indicated for E51) for basic types and are measured at switch button.

To convert ounces into grams multiply by 28.349527

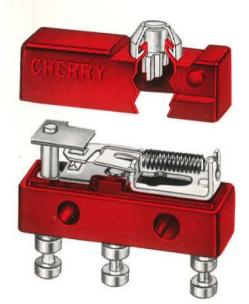
To convert grams into ounces multiply by 0.03527.

To convert inches into millimeters multiply by 25.40

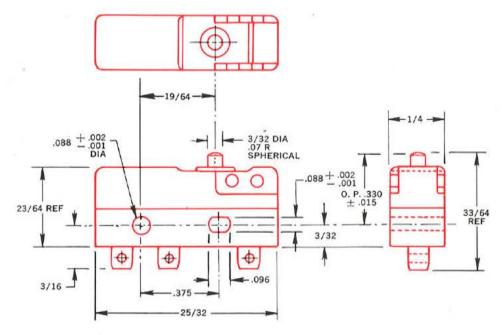
SNAP-ACTION SWITCHES

PAGE
Snap-Action Switch Terms
Snap-Action Switch Selector Guide 4
Subminiature/Solid Base
Subminiature
Miniature/Standard Force
Miniature/Light Force
Panel Mount Pushbutton/Single Pole
Panel Mount Pushbutton/Double Pole
Low Torque
General Purpose/Single Pole
General Purpose/Double Pole
Open
Weatherproof
Gold Crosspoint
LINE INTERRUPT SWITCHES 28
र्गा त्वर्ष
OTHER CHERRY PRODUCT LINES

subminiature/solid base



SERIES E91—LIGHT FORCE
SERIES E92—STANDARD FORCE
SERIES E93—LIGHT FORCE, GOLD CROSSPOINT



RATING: E91—5 Amps., 125/250 VAC RATING: E92—11 Amps., 125/250 VAC 1/4 H.P., 125/250 VAC		Button			****	Flat	Leaf				
RATING: E93—0.1 Amps., 125/250 VAC		AA ard ratio		LB rd ratio		-MB h ratio		LD ard ratio		-MD n ratio	
Und. Lab. Inc. listed, and CSA approved.	un- sealed	sealed	un- sealed	sealed	un- sealed	sealed	un- sealed	sealed	un- sealed	sealed	
OPERATING FORCE E91 SERIES (Maximum Grams) **	90	125	28	39	16	23	21	28	12	17	
OPERATING FORCE E92 SERIES (Maximum Grams)	212	_	65	_	38	_	48	_	28	_	
OPERATING FORCE E93 SERIES (Maximum Grams)	90	125	28	39	16	23	21	28	12	17	
PRETRAVEL (Maximum inches)	.030	.030	.120	.120	.205	.205	.162	.162	.276	.276	
OPERATING POINT* (in inches)	.330 ±.015	.330 ±.015	.345 ±.060	.345 ±.060	.345 ±.100	.345 ±.100	.345 ±.080	.345 ±.080	.345 ±.130	.345 ±.130	
OVERTRAVEL (Minimum inches)	.035	.010	.050	.035	.060	.060	.070	.045	.080	.080	
MOVEMENT DIFFERENTIAL (Maximum inches)	.004	.004	.020	.020	.035	.035	.035	.035	.055	.055	
ACTUATOR LENGTH (Tolerance of ± 1/32")		-	.28	35	.4:	10	.5	75	.70	00	

REMARKS: *Measured above reference line

NOTE: Nominal button rest height is .353" \pm .015"

**NOTE: Gold Crosspoint configuration also available on most other snap-action switches in this catalog. See pages 26-27.

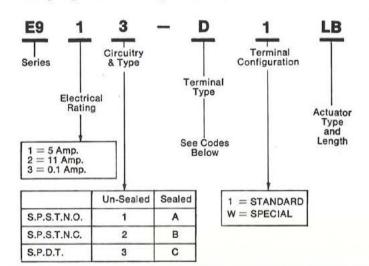
TOLERANCES: Fractions: ± 1/64"

Decimals: ± .010 Angles: ±5°

- Long Life Coil Spring Mechanism
- Large Overtravel
- Rock Wipe Contact Action
- External Hinged Actuator
- **Insert Molded Terminals**
- Small Compact Size
- **Custom Designs**
- Sealed or Un-Sealed

ORDERING INFORMATION

The example calls out a Series E9 solid base subminiature switch with 5 Amps., 125/250VAC electrical rating; S.P.D.T. circuitry, unsealed type; double turret terminal type; standard terminal configuration; with a flat leaf actuator in the standard ratio position giving an actuator length of .285".



.110 D

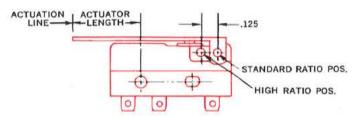
DOUBLE TURRET (Code D)

(CROSS DRILLED)

SOLDER (Code C)

TERMINALS — Choice of Solder/Cross Drilled (Code C), Double Turret (Code D), *.058" QC Pin (Code P), or Single Turret (Code S). Please specify code designation when ordering. (See below.)
*May be used with female QC on E91 and E93 only. On E92 to be used as solder terminal only.

ACTUATORS — Many special forms and lengths of actuators are available with tooling charge applying. Standard type external hinged lever and roller actuators are available in choice of 2 pivot positions (standard ratio and high ratio). Actuator lengths are dimensioned from centerline of switch mounting hole as shown.



CIRCUITRY & TYPE - Contact arrangement available in chocie of single pole double throw or single pole single throw, either normally open or normally closed.



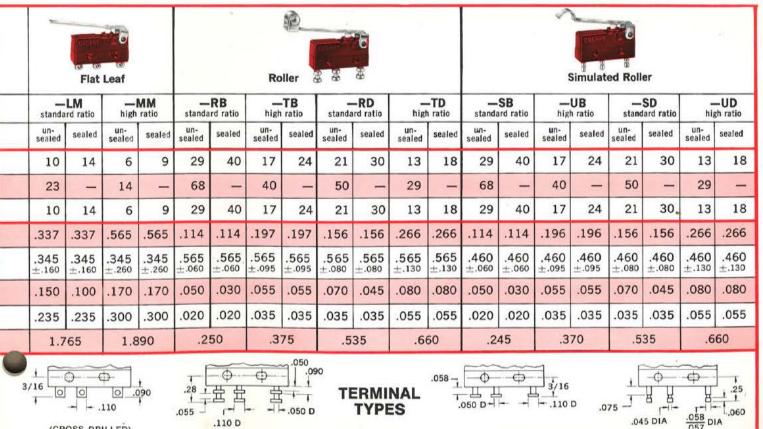
SINGLE TURRET (Code S)



UN-SEALED

Sealed or Un-Sealed - Sealed version has actuator button construction with moisture protection provided by elastomer boot. Sealed version of E92 switch not available.

MATERIALS				
PARTS	SERIES E91, SERIES E92 & SERIES E93			
Case	General purpose phenolic			
Actuating button	Acetal or similar			
Common terminal	Plated Copper Alloy			
NO and NC terminals	Plated Copper Alloy			
Moving blade	Copper Alloy			
Contacts	Silver (Series E91 and E92) or			
	WE Alloy No. 1 (Series E93)			
Spring	Stainless Steel			
Auxiliary Actuators	Stainless Steel			



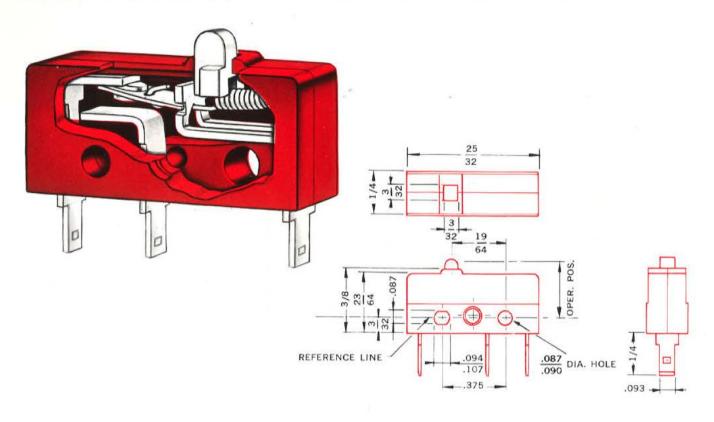
.045 DIA

.058 PIN

.057

(Code P)

SUBMINIATURE SERIES E61-LIGHT FORCE SERIES E62-STANDARD FORCE



RATING: E61—5 Amps., 125/250 VAC RATING: E62—10.1 Amps., 125/250 VAC—1/4.H.P., 125 VAC Und. Lab. Inc. listed, and CSA approved.	0 0
ond. Eab. Inc. listed, and CSA approved.	E61-00A/E62-00A
OPERATING FORCE E61 SERIES (Maximum Grams)	90
OPERATING FORCE E62 SERIES (Maximum Grams)	212
PRETRAVEL (Maximum inches)	.030
OPERATING POINT* (in inches)	.330 ± .015
OVERTRAVEL (Minimum inches)	.035
MOVEMENT DIFFERENTIAL (Maximum inches)	.004
ACTUATOR LENGTH (Tolerance of ± 1/32")	_
DEMARKS	

REMARKS: *Measured above reference line

NOTE: Nominal button rest height is .353" \pm .015"

Also available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27.

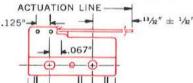
- Long Life Coil Spring Mechanism
- Large Overtravel
- Rock Wipe Contact Action
- Integral Hinged Actuator
- Small Compact Size
- Custom Designs

NOTE: .093" Quick Connect terminals are standard. To order solder terminals add 10 to suffix number. To order .110" Quick Connect terminals add 30 to suffix number. For example: The basic E61-00A becomes E61-10A for solder terminals and E61-30A for .110" QC terminals. See chart below.

TERMINAL TYPES	S.P.D.T.	S.P.S.T.N.O.	S.P.S.T.N.C.
.093" QC	E61-00A	E61-01A	E61-02A
SOLDER	E61-10A	E61-11A	E61-12A
.110" QC	E61-30A	E61-31A	E61-32A

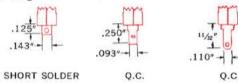
Also applies to E62 Series.

ACTUATORS—Many special forms and lengths of actuators are available with tooling charges applying. Standard type integral hinged lever and roller actuators are available in choice of 2 pivot positions. Actuator lengths are dimensioned from centerline of switch mounting hole as shown.



CIRCUITRY—Contact arrangement available in choice of single pole double throw or single pole single throw, either normally open or normally closed. In general normally open may be specified by changing suffix number from 00 to 01 and normally closed by changing suffix number to 02. Example: E61-00A is double throw, E61-01A is normally open, and E61-02A is normally closed. (Note: Ganged modules to provide 2, 3, 4, and 5 switches side by side are available).

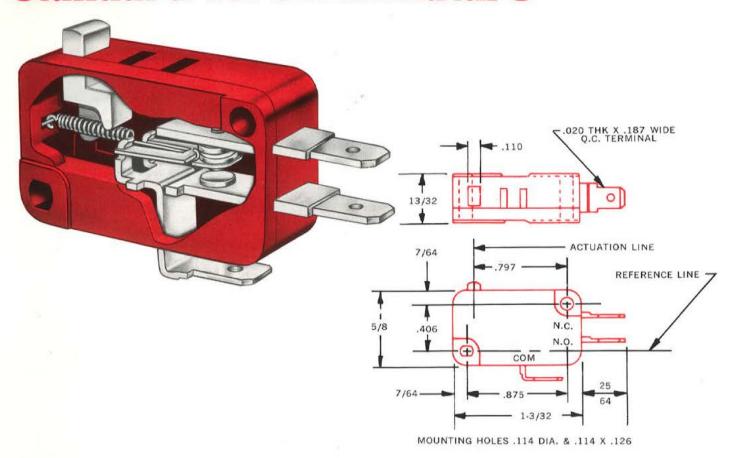
TERMINALS—Subminiature series is available with quick connect .093" wide (mates with AMP part no. 60432-1) and .110" wide (mates with AMP part no. 42399-2). Also available in short solder terminal .139" wide x .125" long.



	MATERIALS
PARTS	SERIES E61 & SERIES E62
Case	General purpose phenolic
Actuating button	Acetal
Common terminal	Plated Copper Alloy (.00002 to .00005 thick)
NO and NC terminals	(.00002 to .00005 thick)
Moving blade	Beryllium
Contacts	Silver
Spring	Stainless Steel
Auxiliary Actuators	Cold-Rolled Steel— White Nickel Plated (.00002 to .00005 thick)

E61-00H/E62-00H	E61-50H/E62-50H	E61-00K/E62-00K	E61-50K/E62-50K
24	8	26	9
56	20	65	22
5/32"	7/16"	9/64"	13/32"
.350 ± .030	.350 ± .030	.570 ± .030	.570 ± .030
.040	.050	.030	.040
.020	.050	.020	.050
9/32"	13/32"	13/64"	21/64"

Standard force/miniature series e22 series e33 series e23 series e34



RATING: E22— 3 Amps., 125/250 VAC RATING: E23— 5 Amps., ½ H.P., 125/250 VAC RATING: E33—10 Amps., ½ H.P., 125/250 VAC RATING: E34—15 Amps., ½ H.P., 125/250 VAC	20		
Und. Lab. Inc. listed, and CSA approved.	-00A	—оон	—50Н
OPERATING FORCE E22 (Max. Gms.)	75	75	35
OPERATING FORCE E23 (Max. Gms.)	170	170	86
OPERATING FORCE E33 (Max. Gms.)	285	285	144
OPERATING FORCE E34 (Max. Gms.)	400	400	200
PRETRAVEL (Max. inches)	.047	.062	.125
OPERATING POINT* (in inches)	.578 ± .020	$\textbf{.600} \pm \textbf{.020}$.600 ± .045
OVERTRAVEL (Minimum inches)	.050	.050	.090
MOVEMENT DIFFERENTIAL (Max. inches)	.010	.016	.030
ACTUATOR LENGTH (Tolerance of ± 1/32")	Y_4	27/32"	113/32"

REMARKS: •Measured above reference line

NOTE: Nominal button rest height is 3%4"

Also available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27.

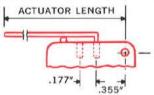
- Long Life Coil Spring Mechanism
- Large Overtravel
- Rock Wipe Contact Action
- Wide Rounded Wear Resistant Button
- Integral Hinged Actuators
- Custom Designs

NOTE: .187" Quick Connect terminals are standard. To order screw terminals add 10 to suffix number. To order solder terminals add 20 to suffix number. For example: The basic E23-00A becomes E23-10A for screw terminals and E23-20A for solder terminals. See chart below.

TERMINAL			1
TYPES	S.P.D.T.	S.P.S.T.N.O.	S.P.S.T.N.C.
QC	E23-00A	E23-01A	E23-02A
SCREW	E23-10A	E23-11A	E23-12A
SOLDER	E23-20A	E23-21A	E23-22A

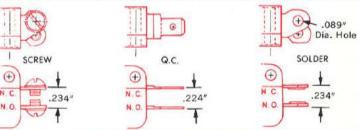
Also applies to E22, E33 and E34 Series.

ACTUATORS—Many special forms and lengths of actuators are available with tooling charges applying. Standard type integral hinged lever and roller actuators are available in choice of 2 pivot positions. Actuator lengths are dimensioned from centerline of switch mounting hole as shown here.



CIRCUITRY—Contact arrangement available in choice of single pole double throw or single pole single throw, either normally open or normally closed. In general normally open may be specified by changing suffix number from 00 to 01 and normally closed by changing suffix number to 02. Example: E34-00A is double throw, E34-01A is normally open and E34-02A is normally closed.

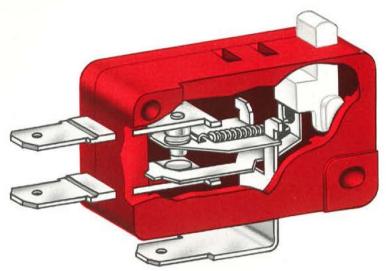
TERMINALS—Choice of Screw, Solder, or Quick Connect Terminals. Unless otherwise specified switches are furnished with QC terminals .187 wide x .020 thick. Also available are .250 wide x .032 QC terminals.



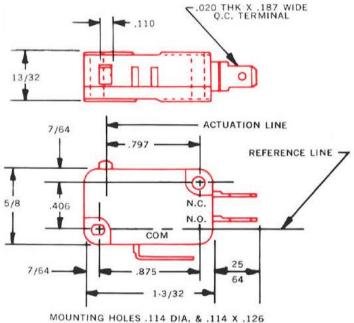
MATERIALS						
PARTS	SERIES E22	SERIES E23, E33	SERIES E34			
Case Actuating button Common terminal NO and NC terminals Moving blade Contacts Spring Auxiliary Actuators Roller	General purpose phenolic Acetal Resin Silver Plated Brass (,00002 to ,00005 thick) Brass (70% Copper, 30% Zinc) Spring Brass Fine Silver Stainless Steel Aluminum used on 2%* Long actuator	General purpose phenolic Acetal Resin Silver Plated Brass (.00002 to .00005 thick) Brass (70% Copper, 30% Zinc) E23 Spring Brass, E33 Silver Plated Beryllium Copper Silver Cadmium Oxidized Stainless Steel Cold Rolled Steel-White Nickel Plated (.0002 to .00005 thick) Sintered Stainless Steel	General purpose phenolic Acetal Resin Silver Plated Brass (,00002 to ,00005 thick Copper Silver Plated Beryllium Copper (,00002 to ,00005 thick) Silver-Cadmium Oxidized Stainless Steel Cold Rolled Steel-White Nickel Plated (,00002 to ,00005 thick) Sintered Stainless Steel			

	—50HL	—оок	—50K	—50KL	—50P
	15	75	35	15	35
	51	170	86	51	86
THE R	86	285	144	86	144
	120	400	200	120	200
	.200	.047	.125	.200	.125
	.600 ± .062	.806 ± .030	.806 ± .045	.806 ± .062	1.045 ± .045
	.140	.040	.085	.140	.085
	.050	.010	.030	.050	.030
	1%6"	13/16"	111/32"	11/2"	111/32"

ight force/miniature series e22-series e23 series e33-series e34



Added internal actuator increases leverage, reduces operating force while maintaining high contact pressure.



RATING: E22 Series—3 Amp., 125/250 VAC RATING: E23 Series—5 Amp., ¼ H.P., 125/250 VAC RATING: E33 Series—10 Amp., ½ H.P., 125/250 VAC		2.3
RATING: E34 Series—15 Amp., ½ H.P., 125/250 VAC Und. Lab. Inc. listed, and CSA approved.	-00AX	—50НХ
E22 OPERATING FORCE (Max. in grams)	15	8
E23 OPERATING FORCE (Max. in grams)	45	22
E33 OPERATING FORCE (Max. in grams)	75	37
E34 OPERATING FORCE (Max. in grams)	100	50
PRETRAVEL (Max. in inches)	.047	.125
OPERATING POINT * (in inches)	.578 ± .020	.600 ± .045
OVERTRAVEL (Minimum in inches)	.050	.090
MOVEMENT DIFFERENTIAL (Max. in inches)	.010	.030
ACTUATOR LENGTH (Tolerances of ± 1/32")	gx	113/32"

REMARKS: *Measured above reference line

NOTE: Nominal button rest height is 39%4"

Also available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27.

- Low Operating Force
- Long Life Coil Spring Mechanism
- Large Overtravel
- Rock Wipe Contact Action
- Integral Hinged Actuators
- Custom Designs

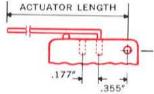
NOTE: .187" Quick Connect terminals are standard. Normally, to order screw terminals add 10 to suffix number. To order solder terminals add 20 to suffix number. For example: The basic E22-00AX becomes E22-10AX for screw terminals and E22-20AX for solder terminals. See chart below.

EXCEPTIONS: When ordering —55HX, —75HX, —75KX or —85HX switches, do **not** change suffix number. Simply state on order whether QC, screw or solder terminal types are desired.

TERMINAL TYPES	S.P.D.T.	S.P.S.T.N.O.	S.P.S.T.N.C.	
QC	E22-00AX	E22-01AX	E22-02AX	
SCREW	E22-10AX	E22-11AX	E22-12AX	
SOLDER	E22-20AX	E22-21AX	E22-22AX	

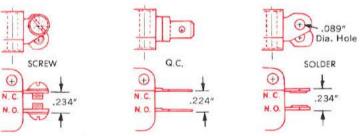
Also applies to E23, E33 and E34 Series.

ACTUATOR—Many special forms and lengths of actuators are available with tooling charges applying. Standard type integral hinged lever and roller actuators are available in choice of 2 pivot positions. Actuator lengths are dimensioned from centerline of switch mounting hole as shown here.



CIRCUITRY—Contact arrangement available in choice of single pole double throw or single pole single throw, either normally open or normally closed. In general normally open may be specified by changing suffix number from 00 to 01 and normally closed by changing suffix number to 02. Example: E22-00AX is double throw, E22-01AX is normally open and E22-02AX is normally closed.

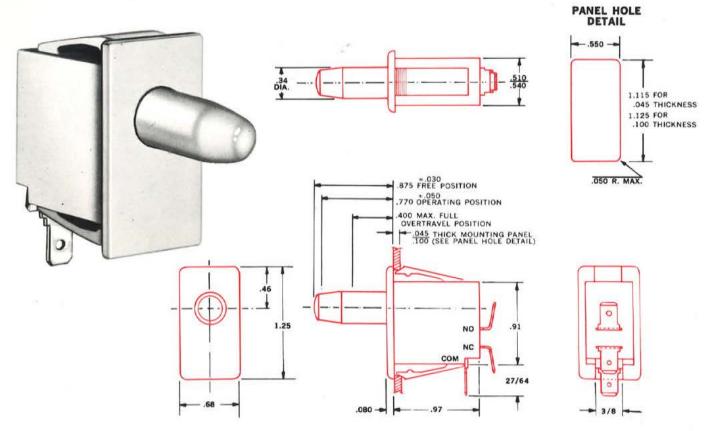
TERMINALS—Choice of Screw, Solder, or Quick Connect Terminals. Unless otherwise specified switches are furnished with QC terminals .187 wide x .020 thick. Also available are .250 wide x .032 QC terminals.



MATERIALS					
PARTS	SERIES E22	SERIES E23, E33	SERIES E34		
Case	General purpose phenolic	General purpose phenolic	General purpose phenolic		
Actuating button	Acetal Resin	Acetal Resin	Acetal Resin		
Common terminal	Silver Plated Brass (.00002 to .00005 thick)	Silver Plated Brass (,00002 to .00005 thick)	Silver Plated Brass (.00002 to .00005 thick)		
NO and NC terminals	Brass (70% Copper, 30% Zinc)	Brass (70% Copper, 30% Zinc)	Copper		
Moving blade	Spring Brass	E23 Spring Brass, E33 Silver Plated Beryllium Copper	Silver Plated Beryllium Copper (,00002 to ,00005 thick)		
Contacts	Fine Silver	Silver Cadmium Oxidized	Silver-Cadmium Oxidized		
Spring	Stainless Steel	Stainless Steel	Stainless Steel		
Auxiliary Actuators	Aluminum used on 23/4" Long actuator	Cold Rolled Steel-White Nickel Plated (.00002 to .00005 thick)	Cold Rolled Steel-White Nickel Plated (.00002 to .00005 thick)		
Roller		Sintered Stainless Steel	Sintered Stainless Steel		

	—75HX	—50KX	—75KX	—55HX	—85НХ
	5	_	-	31/2	2
	14	22	14	10	6
	22	37	22	17	10
	30	50	30	22	13
	.200	.125	.200	.300	.500
	.600 ± .062	.806 ± .045	.806 ± .062	.600 ± .078	.600 ± .125
	.140	.090	.140	.187	.312
•	.050	.030	.050	.065	.100
	19/16"	111/32"	11/2"	23/4"	2.932"

panel mount pushbutton/single pole



RATING: 10 amp,125/250 VAC 1/3 H.P. 125/250 VAC Und. Lab. Inc. listed, and CSA approved.	Basic Momentary Action	E69-40A Short Button Momentary	
REST POSITION	.845 — .905	.420 — .480	
PRETRAVEL Max. (in inches)	.125	.125	
OPERATING POINT*	.720 — .820	.300 — .400	
OVERTRAVEL Min. (in inches)	.375	.175	
MOVEMENT DIFFERENTIAL Max.	.045	.045	
OPERATING FORCE Max.	15 oz.	15 oz.	
FULL OVERTRAVEL POSITION Max. (in inches) "A" Dimension	.400	.125	
REMARKS: *Measured above reference line. Also available with Gold Crosspoint Contacts for low energy switching applications see pages 26 and 27. BUSHING DETAIL A 311	BUTTO	ON DETAIL	

-.055/.060

BUTTON RECEIVING SLOT

SIDE VIEW

MOMENTARY-PUSH-PULL (RESET)-"CHEAT" INTERLOCK-PUSH-PUSH

- Rock-Wipe Contact Action
- Custom Designs
- Snap-in Panel Mounting
- Large Overtravel
- Long-Life Coil Spring Snap-Action Mechanism

ALSO AVAILABLE WITH GOLD CROSSPOINT CONTACTS

Gold alloy contact prisms welded to contact brackets, at right angles to each other, make low energy switching possible without the necessity of redesigning. Metallurgically bonded contacts contribute to reliable performance in applications from 5 to 100 milliamperes at 4 to 30 volts. Initial insertion resistance far below 50 milliohms.

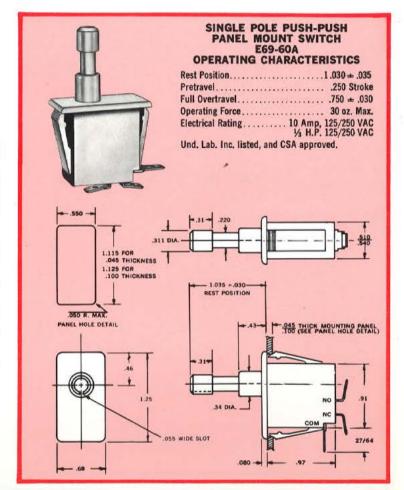
CIRCUITRY— Available in single pole double throw or single pole single throw. Double pole panel mount switches also available. (See pages 16-17 for complete information.)

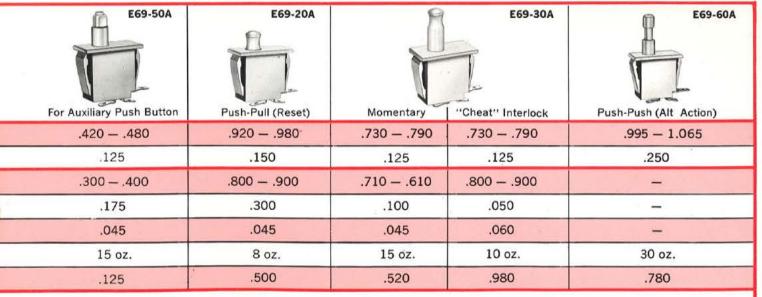
TERMINALS—This switch series has quick connect terminals $.187'' \times .020''$.

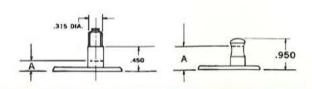
APPLICATIONS—Door and drawer light/interlock switch; test function switch; EDP and business machine start switch; photocopy machines and other equipment requiring either manual or mechanical actuation and panel mounting.

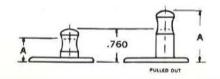
Switch E69-50A has button with special shaft to accept auxiliary push buttons for manual actuation.

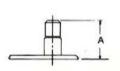
MATERIALS					
Case	White Nylon				
Actuating Button	White Acetal				
Terminals	Brass				
Moving Blade	Beryllium Copper				
Contacts	Silver Cadmium Oxidized				
Spring	Stainless Steel				



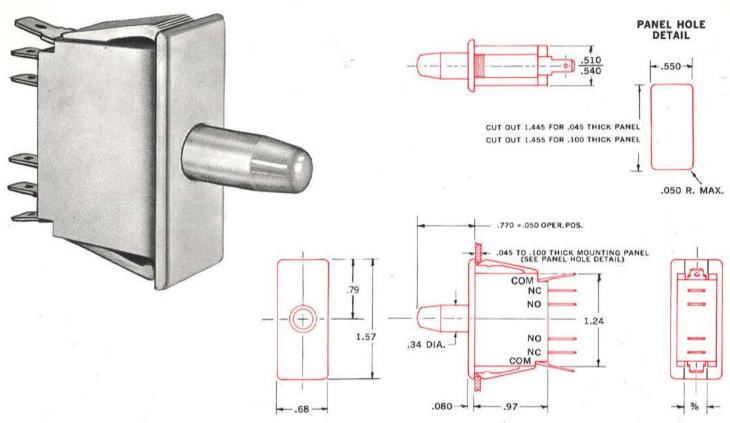


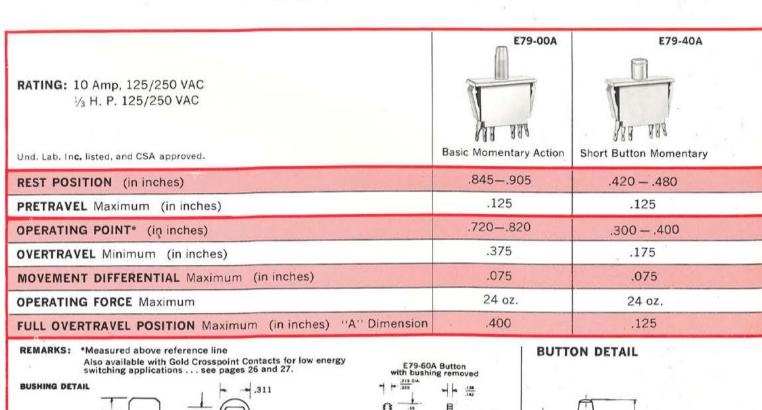






panel mount pushbutton/double pole





-.055/.060

BUTTON RECEIVING SLOT

.875

MOMENTARY-PUSH-PULL (RESET)-"CHEAT" INTERLOCK-"PUSH-PUSH"

- Rock-Wipe Contact Action
- Custom Designs
- Snap in Panel Mounting
- Large Overtravel
- Long Life Coil Spring Snap-Action Mechanism

ALSO AVAILABLE WITH GOLD CROSSPOINT CONTACTS

Gold alloy contact prisms welded to contact brackets, at right angles to each other, make low energy switching possible without the necessity of redesigning. Metallurgically bonded contacts contribute to reliable performance in applications from 5 to 100 milliamperes at 4 to 30 volts. Initial insertion resistance far below 50 milliohms.

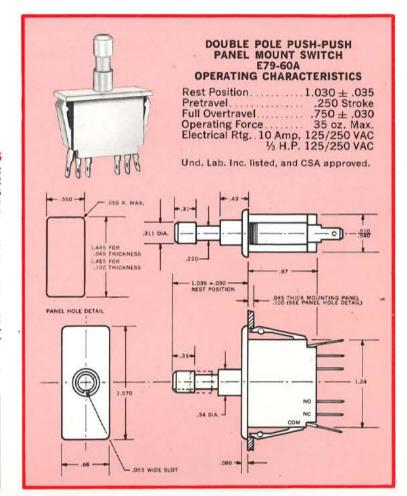
CIRCUITRY—Available in double pole double throw or double pole single throw. Single pole panel mount switches also available. (See pages 14-15 for complete information.)

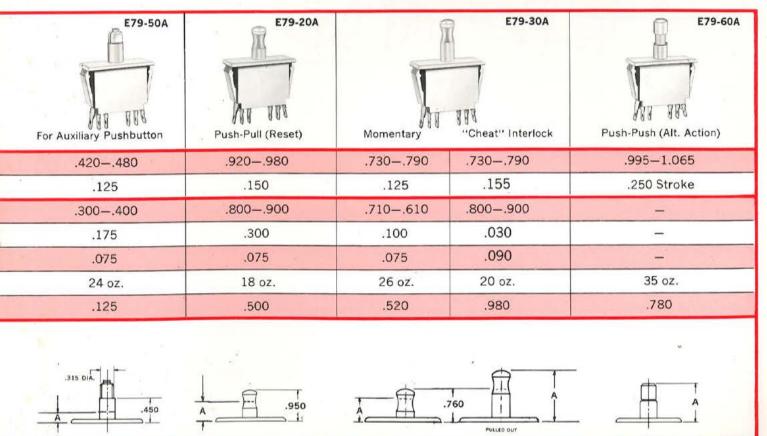
TERMINALS—This switch series has quick connect terminals .187" x .020".

APPLICATIONS—Door and drawer light/interlock switch; test function switch; EDP and business machine start switch; photocopy machines and other equipment requiring either manual or mechanical actuation and panel mounting.

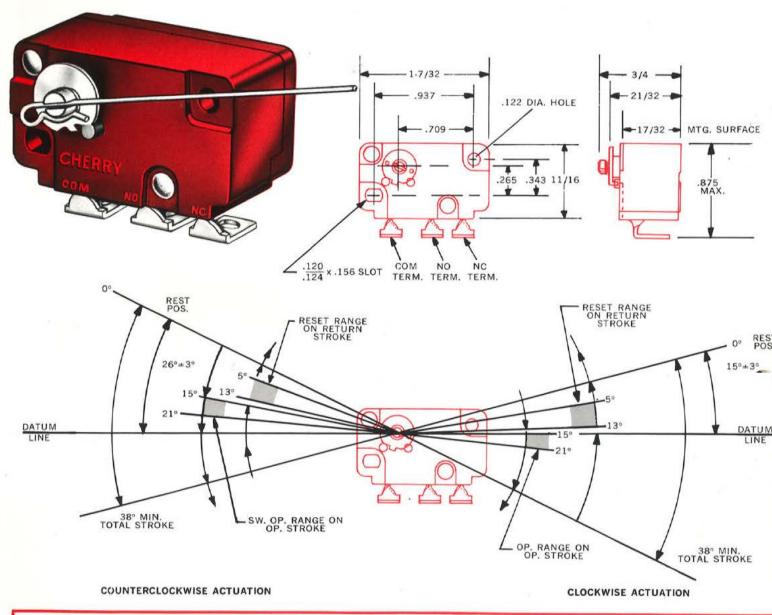
Switch E79-50A has button with special shaft to accept auxiliary push buttons for manual actuation.

MAT	MATERIALS					
Case Actuating Button Terminals Moving Blade	White Nylon White Acetal Brass Beryllium Copper					
Contacts Spring	Silver Cadmium Oxidized Stainless Steel					





low torque switches SERIES E51



RATING: E51—5 amps., 125/250 VAC Und. Lab. Inc. listed, and CSA approved.					596
*	E51-00B	E51-00R	E51-00E	E5 1-00T	
DIRECTION OF ACTUATOR	Clockwise	Clockwise	Counter Clockwise	Counter Clockwise	
TERMINALS	Standard Parallel .205"	Standard Parallel .187"	Standard Parallel .205"	Standard Parallel .187"	

REMARKS:

Also available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27:

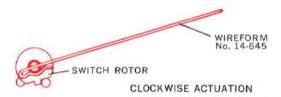
- Long Life Coil Spring Mechanism
- Low Torque Rotary Actuation
- Clockwise or Counter Clockwise
- Rock Wipe Contact Action
- Combination Quick Connect & Solder Terminals
- Double Rivet Sturdy Case Construction

ALL E51 SERIES SWITCHES HAVE THESE CHARACTERISTICS:

OPER. TORQUE MAX.	4.0 inch grams
OVERTRAVEL	15° Min.
MOVEMENT DIFF.	3° Min.

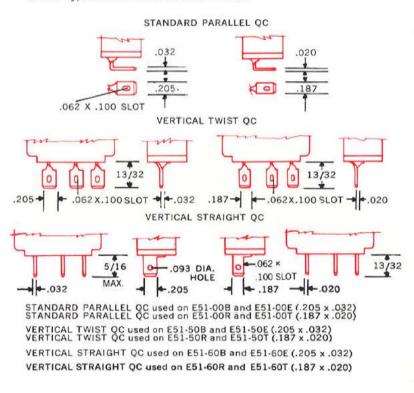
MATERIAL						
PARTS E51 SERIES						
Case	General purpose phenolic					
Common terminal	Silver Plated Brass (.00002 to .00005 thick.).					
NO and NC terminals	Silver Plated Brass (.00002 to .00005 thick).					
Moving blade	Spring Brass					
Contacts	Gold Flashed (.00003 to .00004 thick.) Silver-Cadmium Oxidized.					
Spring	Stainless Steel					

ACTUATORS— Wireform actuators are supplied unassembled for each E51 switch. Wireforms may be readily assembled to switch rotor as illustrated below.



CIRCUITRY—E51 series is available in single pole double throw and single pole single throw either normally open or normally closed. In general normally open may be specified by adding 01 to suffix numbers, and normally closed by adding 02. For example E51-00B is double throw, E51-01B is normally open and E51-02B is normally closed.

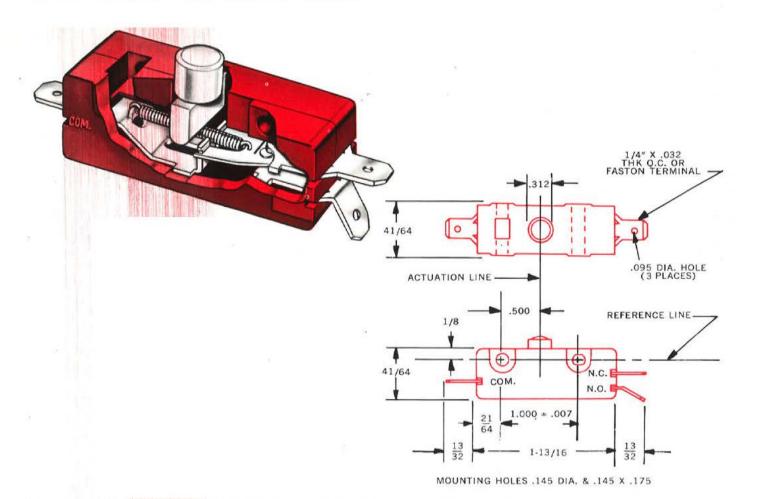
TERMINALS— All terminals are combination quick connect and solder. Several types are available as shown below.



	E51-50B	E51-50R	E51-50E	E51-50T	E51-60B	E51-60R	E51-60E	E51-60T
	Clockwise	Clockwise	Counter Clockwise	Counter Clockwise	Clockwise	Clockwise	Counter Clockwise	Counter Clockwise
•	Vertical Twist .205"	Vertical Twist .187"	Vertical Twist .205"	Vertical Twist .187"	Vertical Straight .205"	Vertical Straight .187"	Vertical Straight .205"	Vertical Straight .187"

general purpose

SERIES E13-STANDARD SERIES E14-HIGH CAPACITY



RATING: E13—15 amps 125/250 VAC 3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC RATING: E14—25 amps 125/250 VAC 1 H.P., 125 VAC—2 H.P., 250 VAC				
Und. Lab. Inc. listed, and CSA approved.	E13-00E	E14-00A	E13-00R	E13-00J
OPERATING FORCE (Max. in ozs.)	15	30	11	15
PRETRAVEL (Max. inches)	.050	.100	.080	.050
OPERATING POINT* (in inches)	.285±.020	.248±.020	.269±.030	.670±.030
OVERTRAVEL (Min. inches)	.100	.050	.032	.100
MOVEMENT DIFFERENTIAL (Max. inches)	.015	.015	_	.015
Reset Button Pretravel (Max. inches)	_	-	.040	=
Reset Button Operating Point	-	-	.670±.030	_
ACTUATOR LENGTH (Tolerance ± 1/32")	_		_	

REMARKS:

*Measured above reference line.

NOTE: Nominal button rest height is 21/4"

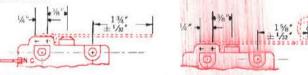
Also available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27.

NOTE: Reset button 1/64" diameter

NOTE: Ferrule on "J" and "M" type is %"- 32 NEF thread with .312" flats .406" high

- Long Life Coil Spring Mechanism
- Large Overtravel
- Rock Wipe Contact Action
- Wear Resistant Nylon Button
- Integral Hinged Actuators
- Custom Designs

ACTUATORS—Many special forms and lengths of actuators are available with tooling charges applying. Standard type integral hinged lever and roller actuators are available in choice of 2 pivot positions. Actuator lengths are dimensioned from centerline of switch mounting hole as shown here.



CIRCUITRY—Contact arrangement available in choice of single pole double throw or single pole single throw, either normally open or normally closed. In general normally open may be specified by changing suffix number from 00 to 01 and normally closed by changing suffix number to 02. Example: E13-00E is double throw, E13-01E is normally open, and E13-02E is normally closed.

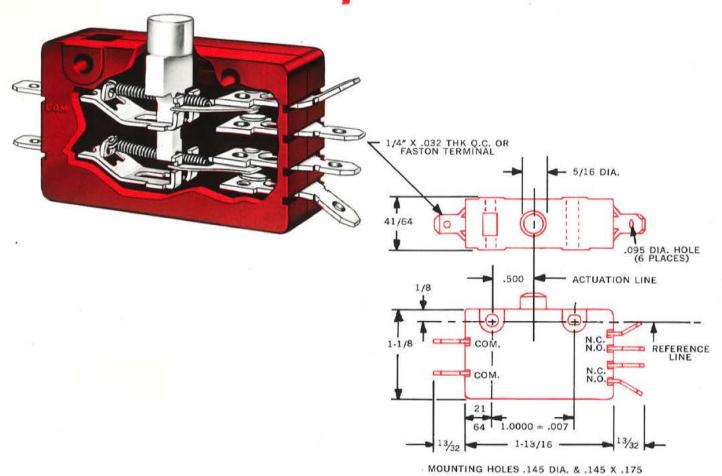
TERMINALS—Standard ¼ inch QC terminals can be furnished with angle formed up or down on common as well as open or closed terminal. Forms include straight, 30, 45, 85 degrees up or down. Other forms can be provided at nominal extra charge.

BUTTON VARIATIONS—Several button lengths are available without extra charge. Special button lengths, forms and colors may be had with nominal set-up and/cr tooling charge.

MATERIALS						
PARTS	SERIES E13	SERIES E14				
Case	General purpose phenolic	General purpose phenolic				
Actuating button	Nylon	Nylon				
Common terminal	Brass (70% Copper, 30% Zinc)	Silver Plated Brass (.00002 to .00005 thick)				
NO and NC terminals	Brass (70% Copper, 30% Zinc)	Copper				
Moving Blade	Spring Brass	Silver Plated Berylco (.00002 to .00005 thick)				
Contacts	Silver-Cadmium Oxidized	Silver-Cadmium Oxidized				
Spring	Stainless steel	Stainless steel				
Aux. Actuators	Cold-Rolled Steel—White Nickel Plated (.00002 to .00005 thick)	Cold-Rolled Steel—White Nickel Plated (.00002 to .00005 thick)				
Roller	Sintered Stainless Steel	Sintered Stainless Steel				

					35	S. Carlo	S		
	E13-00M	E13-00H	E14-00H	E13-50H	E14-50H	E13-00K	E14-00K	E13-50K	E14-50K
	15	31/2	10	21/4	6	31/2	10	21/4	6
	.050	.250	.312	.343	.525	.250	.291	.343	.483
	.812±.030	.312±.062	.468±.062	.281±.062	.437±.062	.718±.062	.860±.062	.687±.062	.828±.062
	.218	.187	.150	.187	.234	.187	.130	.187	.218
	.015	.093	.050	.140	.080	.093	.045	.140	.073
	_	<u></u>	-	-	-	-	- 111		1-14
	-	_	-	_	-	-	- 1		
		11/2"	27/32"	13/4"	1 3/32"	13/8"	11/16"	15/8"	15/16"

GENERAL PUPPOSE / double series E19-STANDARD POLE SERIES E20-HIGH CAPACITY



RATING: E19—15 amps 125/250 VAC ³ ⁄ ₄ H.P., 125 VAC—1½ H.P., 250 VAC RATING: E20—20 amps 125/250 VAC 1 H.P., 125 VAC—2 H.P., 250 VAC					TO THE PARTY OF TH
Und. Lab. Inc. listed, and CSA approved.	E19-00A	E20-00A	E19-00R	E19-00H	E20-00H
OPERATING FORCE (Max. in ozs.)	30	45	22	7	15
PRETRAVEL (Max. in inches)	.050	.100	.080	.275	.330
OPERATING POINT (in inches)	.285±.030	.248±.030	.269±.030	.312±.062	.468±.062
OVERTRAVEL (Min. in inches)	.080	.050	.032 (either direction)	.187	.156
MOVEMENT DIFFERENTIAL (Max. in., ea. pole)	.015	.015	-	.093	.050
Reset Button Pretravel (Max. in inches)	-	_	.080	=	_
Reset Button Operating Point (in inches)	_	_	1.156±.030		-
ACTUATOR LENGTH (Tolerance ± 1/32")	_	-		11/2"	27/32"

REMARKS: •Measured above reference line

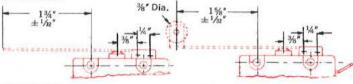
NOTE: Nominal button rest height is 21/64"

Also available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27.

NOTE: Reset button 1/8" diameter

- Double Circuit Control
- Long Life Coil Spring Mechanism
- Rock Wipe Contact Action
- Wear Resistant Nylon Button
- Integral Hinged Actuators
- Custom Designs

ACTUATORS—Many special forms and lengths of actuators are available with tooling charges applying. Standard type integral hinged lever and roller actuators are available in choice of 2 pivot positions. Actuator lengths are dimensioned from centerline of switch mounting hole as shown here.



CIRCUITRY—Contact arrangement available in choice of double pole double throw or double pole single throw either normally open or normally closed. In general normally open may be specified by changing suffix number from 00 to 01 and normally closed by changing suffix number to 02. Example: E19-00J is double throw, E19-01J is normally open, and E19-02J is normally closed.

TERMINALS—Standard ¼ inch QC terminals can be furnished with angle formed up or down on common as well as open or closed terminal. Forms include straight, 30, 45, 85 degrees up or down. Other forms can be provided at nominal extra charge.

BUTTON VARIATIONS—Several button lengths are available without extra charge. Special button lengths, forms and colors may be had with nominal set-up and/or tooling charge.

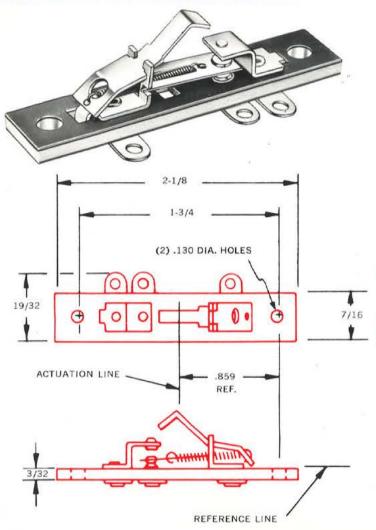
MATERIALS						
PARTS	SERIES E19	SERIES E20				
Case	General purpose phenolic	General purpose phenolic				
Actuating button	Nylon	Nylon				
Common terminal	Brass (70% Copper, 30% Zinc)	Silver Plated Brass (.00002 to .00005 thick)				
NO and NC terminals	Brass (70% Copper, 30% Zinc)	Copper				
Moving Blade	Spring Brass	Silver Plated Berylco (.00002 to .00005 thick				
Contacts	Silver-Cadmium Oxidized	Silver-Cadmium Oxidized				
Spring	Stainless steel	Stainless steel				
Aux. Actuators	Cold-Rolled Steel—White Nickel Plated (.00002 to .00005 thick)	Cold-Rolled Steel—White Nickel Plated (.00002 to .00005 thick)				
Roller	Sintered Stainless Steel	Sintered Stainless Steel				

		E Comment	5						
E19-50H	E20-50H	E19-00K	E20-00K	E19-50K	E20-50K	E19-00J	E20-00J	E19-00M	
41/2	10	7	15	41/2	11	30	45	30	
.400	.600	.250	.312	.312	.525	.050	.100	.050	
.281±.062	.437±.062	.718±.062	.860±.062	.687±.062	.828±.062	.670±.030	.630±.030	.812±.030	
.187	.156	.187	.156	.187	.146	.080	.050	.218	
.140	.080	.093	.045	.140	.075	.015	.015	.015	
- 1	_	-	-	_	-	- 01		_	
-	<u></u>	_	(-	=	5 —	-	_	
13/4"	1 3/32"	13/8"	11/16"	15/8"	15/16"	-	-		

NOTE: Ferrule on "J" and "M" type is %"-32 NEF thread with .312" flats .406" high

open switches

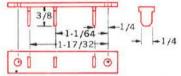
SERIES S23 LIGHT FORCE TYPE SERIES S25 STANDARD BASIC TYPE

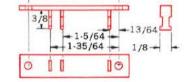


ACTUATORS—In addition to the standard actuators shown here many other actuator forms are available at no extra cost. Special forms can be supplied with partial tooling charge.

CIRCUITRY—Choice of single pole, double throw or single throw, either normally open or normally closed. In general, single throw may be specified by changing suffix number by 01 for normally open and 02 for normally closed. For example S25-60T is double throw, normally open is S25-61T and normally closed is S25-62T. Applies to S23 Series.

TERMINALS—Three standard terminal types include flat solder, integral solder and Ouick Connect as shown here.





QUICK CONNECT

INTEGRAL SOLDER

NOTE:

To specify quick connect terminals change suffix "T" to "Z". To specify integral solder terminals change suffix "T" to "W".

NOTE:

To specify flat solder terminals change suffix "W" to "T". To specify quick connect terminals change suffix "W" to "Z".

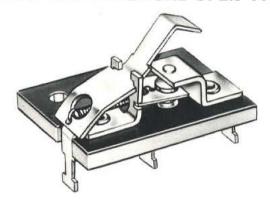
RATING: S23 5 Amps., 125 VAC RATING: S25 10 Amps., 125 VAC—5 Amps., 250 VAC ¼ HP, 125/250 VAC RATING: S30 10 Amps., 125 VAC—5 Amps., 250 VAC		
1/6 HP, 125/250 VAC Und. Lab. Inc. listed, and CSA approved.	\$23-00T/\$25-00T	S23-60T/S25-60T
OPERATING FORCE SERIES S23 (Maximum in Ounces)	3	1
OPERATING FORCE SERIES S25 & S30 (Maximum in Ounces)	91/2	3
REST* (Maximum in inches)	.504	.525
OPERATING POINT* (Minimum in inches)	.353	.300
OVERTRAVEL (Minimum in inches)	.045	.040
MOVEMENT DIFFERENTIAL (Maximum in inches)	070	.150

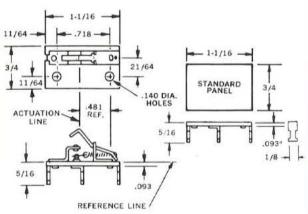
REMARKS: *Measured above reference line.

- NOTES: 1. The S23 and S25 series switch actuator is electrically "live" and must be operated by a non-conductive part or insulated by means of nylon insulators. These are applicable to a limited number of actuator designs. (Of the types shown here only the -20T and -40T will accept insulator.)
 - 2. Operating point is measured from top of panel to top of actuator.
 - 3. Actuator arms shown are 1/8" wide, except-60T which is 1/4" wide.
 - 4. Operating force is measured at highest point on actuator.

Series S30 available with Gold Crosspoint Contacts for low energy switching applications . . . see pages 26 and 27.

SERIES S30 MINIATURE OPEN TYPE





MATERIALS				
PARTS	SERIES S-23 & S-25			
Panel	XP Bakelite			
Movable Blade	Spring Brass			
Coil Spring	Stainless Steel			
Actuator Arm	Brass			
Flat Solder Terminals	Tin Plated Brass			
Integral Solder Terminals	Cadmium Plated Brass			
Quick Connect Terminals	Brass			
Contacts	Silver Cadmium Oxidized			

\$30-00W	\$30-20W
7½ ozs.	7½ ozs.
.533"	.526"
.378"	.382"
.045"	.080″
.085″	.085″

weatherproof

SERIES E72

Cherry put a switch inside a switch...
so it's watertight and weatherproof!



Cherry's basic E72-40A is one of a series of sealed, snap-action switches so remarkably well protected on the outside, that they're moisture resistant. The sealed enclosure houses one of Cherry's E62 subminiature switches, proven reliable over many years in the most demanding applications.

A very compact, functional size, it comes with insulated, 10 inch, 16 gauge leads attached. The E72-40A is rated at 10.1 Amps., ¹/₄ HP and 125/250 VAC. Listed by Underwriters' Laboratories, Inc., and has been approved by CSA for AC use.

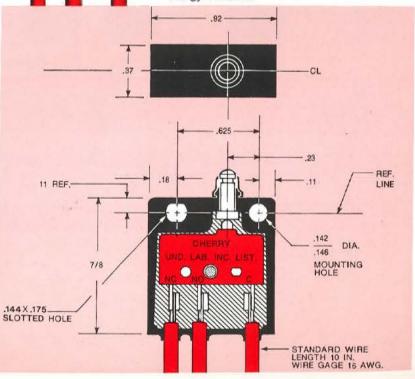
The E72 series is also available with hinged external actuators, Cherry part number E72-40H.

OPERATING CHARACTERISTICS AT BUTTON

AT DOLLON	
• REST	Max390"
• PRETRAVEL	Max040,
OPERATING POINT	310—.350″
OVERTRAVEL	Min035"
MOVEMENT DIFFERENTIA	L Max004"
OPERATING FORCE	Max. 300 Gms.

NOTE

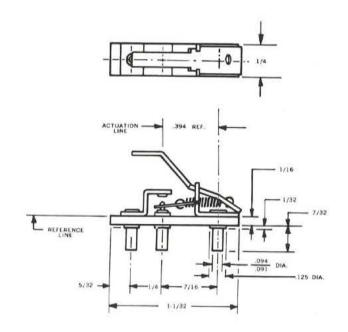
For low energy switching applications, the E73 Series of this switch is available with Gold Crosspoint Contacts. See pages 26 and 27 for general information on Cherry's low energy switches.



Engineers can now take a completely new approach to switching of low energy circuits. The Gold "Crosspoint" Contact switch design provides reed switch reliability, with snap action switch precision and utility. No need for magnets and installation adjustments. The result is much lower installed cost.

Positive Snap-Action Switching of Low Energy Solid State Circuits

- High reliability in low level switching applications from 4 to 100 milliamperes at 4 to 30 volts
- Long Life . . . measured in millions of operations
- Initial insertion resistance far below 50 milliohms (lower than reed switches)
- Very high force per unit area (contact pressures)
- Reduced susceptibility to contact closure interference from foreign particles
- Reed switch reliability with snap-action switch precision and utility



RATING: 0.1 Amp, 125 VAC Und. Lab. Inc. listed, and CSA approved	E21-00A	E21-50H	E21-50K	E68-00A	E78-00A
OPERATING FORCE Maximum	75 grams	35 grams	35 grams	15 ozs.	24 ozs.
REST POSITION* Maximum	.635"	_	-	.845"905"	.845" — .905"
PRETRAVEL* Maximum	.047"	.125"	.125"	.125"	.125"
OPERATING POINT*	.578" ± .020"	.600" ± .045"	.806" ± .045"	.720"820"	.720" — .820"
OVERTRAVEL Minimum	.050"	.090"	.085"	.375"	.375″
MOVEMENT DIFFERENTIAL	.010"	.030"	.030"	.045"	.075"

REMARKS: *Measured above reference line.

Except for contacts and ratings:

E21-00A is similar to E22-00A shown on pages 12-13 E21-50H is similar to E22-50H shown on pages 12-13 E21-50K is similar to E22-50K shown on pages 12-13 E68-00A is similar to E69-00A shown on pages 14-15 E78-00A is similar to E79-00A shown on pages 16-17

(Note: Gold Crosspoint Contacts are also available on all other configurations of the E22 series, E69 series, E79 series shown in this catalog.)

(Note: See also series E93 Sold Base Subminiature on pages 6-7.)

^{**}Materials as well as other specifications, operating characteristics and engineering drawings on Gold "Crosspoint" Contact Switches are to be found elsewhere in this catalog as follows:

switches for low energy circuits

VERSATILITY IN APPLICATION

Cherry Gold "Crosspoint" Contact switches are available in a wide variety of switch types, sizes, and mountings for a broad range of electronic applications. In addition to the switches shown on these two pages, many other configurations are available with gold crosspoint contacts. These are indicated by notation under "REMARKS" at the bottom of pages 6 thru 25 and 28-29.

CONTACT CROSS SECTION



The contacts in these switches are W/E Alloy #1 . . . 69% Gold, 25% Silver, 6% Platinum

"CROSSPOINT" CONTACTS



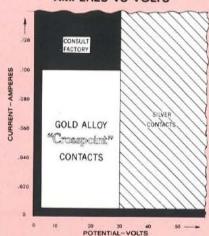
The gold contact prisms are welded at right angles to each other, providing maximum contact pressure and mini-mum hazard of contact closure interference.

CONVENTIONAL CONTACTS



Ordinary contacts provide far less actual contact pressure and are sus-ceptible to contact closure interference caused by foreign matter.

AMPERES VS VOLTS



This chart is intended only as a general guide. Application of information with respect to electrical and mechanical life requirements and type of actuation may require deviation from suggested contact materials.

G13-00E	S31-20P	E53-00B	E63-00A	E63-00H	E63-00K
15 ozs.	7½ ozs.	4.0" gms. Torque	90 grams	24 grams	26 grams
	.533"	18° Max.	.375"		/
.050"	_	_	.030"	5/32"	9/64"
.285" ± .020"	.378" Min.	21° Max. from Rest	.330" ± .015"	.350" ± .030"	.570" ± .030"
.100″	.080″	15° Min.	.035″	.040"	.030"
.015" Max.	.085" Max.	3° Min.	.004" Max.	.020" Max.	.020" Max.

REMARKS: *Measured above reference line

Materials as well as other specifications, operating characteristics and engineering drawings on Gold "Crosspoint" Contact Switches are to be found elsewhere in this catalog as follows:

Except for contacts and ratings:

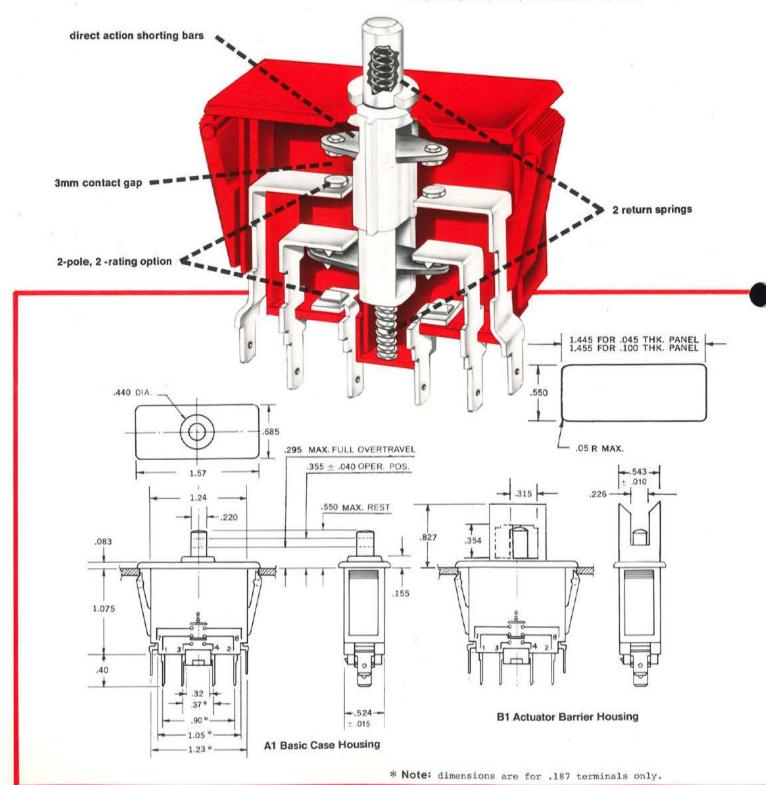
E3-00E is similar to E1300E shown on pages 20-21 E53-00B is similar to E51-00B shown on pages 18-19 E63-00A is similar to E61-00A shown on pages 8-9 E63-00H is similar to E61-00H shown on pages 8-9 E63-00K is similar to E61-00K shown on pages 8-9

(Note: Gold Crosspoint Contacts are also available on all other configurations of the E13 series, E51 series, E61 series shown in this catalog.)
(Note: See also series E93 Solid Base Subminiature on pages 6-7.)

line-interrupt switches put safety first

Specifically engineered for personnel safety while performing routine maintenance and repairs on electrical equipment. When actuator button is released, power circuit is immediately broken, allowing a serviceman to work in safety. Also give protection when an access hatch or safety barrier is inadvertently removed.

Designed to meet worldwide safety specifications, these switches incorporate direct action, double make/double break shorting bars and a minimum of 3mm contact gap. Two parallel return springs, either of which could safely break the circuit alone, give added protection. UL listed and CSA approved. Designed to meet international requirements of VDE, BSI, CEE, JETL, SEV, OVE, DEMKO and NEMKO.



OVER 200 MODELS AVAILABLE

Cherry Line-Interrupt Switches are offered in over 200 variations of contact ratings, cases and circuitry, described below. Model numbers for ordering may be easily determined as explained here. In general, the first 3 characters describe the contact rating. Contact arrangement is coded by the letter following. The next two describe the case style, and the final letter the terminals.

For example:

F82 (A) (A1) (10)
contact contact case and terminals
rating arrangement button style

describes a 16 amp switch in a basic case (without barrier) having 2 SPST double break normally open circuits. (form "X")

CONTACT RATINGS

F81: rated 10 amps at 125 or 250VAC ($\frac{34}{2}$ hp at 125VAC, $\frac{1}{2}$ hp at 250VAC).

F82: rated 16 amps at 125 or 250VAC (¾ hp at 125VAC, 1½ hp at 250VAC).

F83: gold crosspoint contacts for low energy switching. Rated 0.1 amp at 125 or 250VAC.

F84: combines two different ratings in a single switch.

CONTACT ARRANGEMENT

(A) 2 circuit SPST NO DB (2 form "X" contacts)

(J) SPST NO DB (form "X" contact) plus SPDT DB (form "Z" contact)

(D) SPST NO DB (form "X" contact) plus SPST NC DB (form "Y" contact)

(X) SPST NO DB (form "X" contact)

(Y) SPST NC DB (form "Y" contact)

(Z) SPDT DB (form "Z" contact)

note: SPST = single pole single throw SPDT = single pole double throw

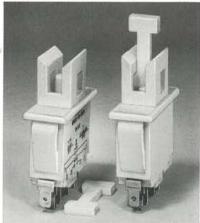
> NO = normally open NC = normally closed DB = double break

Form	Description	Symbol
Х	SPST NO DB	0110
Υ	SPST NC DB	0++0
z	SPDT DB	0

CASE STYLES



A1 CASE is the basic style.



B1 CASE incorporates barriers around the actuator button.

TERMINALS

Either $\frac{1}{16}$ " (10) or $\frac{1}{4}$ " (20) male push-on terminals are standard. Others can be tooled. In most cases terminal sizes may be mixed on a switch to help minimize wiring errors.

MATERIAL SPECIFICATIONS

Case		VI.			4	i	.U.L. 94V-O Thermoplastic
Actuator Button	e c			-	×		.U.L. 94V-O Thermoplastic
Contacts: Standard							. Silver Alloy
Gold Crosspoint							. Gold Alloy
Terminals							. Copper Bearing Alloy
							. Copper Bearing Alloy
Springs							Music Wire
							.U.L. 94V-2 Thermoplastic

Call CHURRY for...



KEYBOARDS & KEYBOARD SWITCHES

Solid state or hard contact? Cherry provides a broad range of custom designed keyboards in your choice of either technology. Plus, numerous standard keyboards available off-the-shelf . . . including the versatile, modifiable 67-key PRO. Many keycap colors, shapes, sizes and legends to choose from. Keyboard switches, too.

Phone: 312/689-7612



INTEGRATED CIRCUITS

Need a custom bipolar IC? Take your pick of linear or I²L digital . . . or a combination of both on the same chip. Cherry designed tooling or your own. Semi-custom and standard ICs, too.

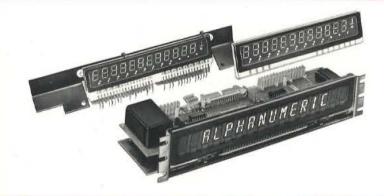
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PRECISION SWITCHES

Whatever you make . . . you can make it better with a Cherry switch. Cherry snap-action switches are designed with a unique coil spring mechanism for longer mechanical life. Vast choice of sizes, operating forces, mountings, termination and actuators with electrical ratings from 1 through 25 amps. Gold crosspoint contact switches for low energy circuits, too.

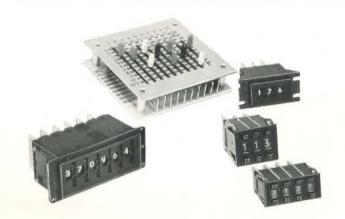
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DISPLAY PRODUCTS

Cherry gas discharge display technology offers you choices of 7 segment numeric or 14 segment alphanumeric displays — and complete display systems including all drive electronics completely packaged, ready to plug in . . . and use!

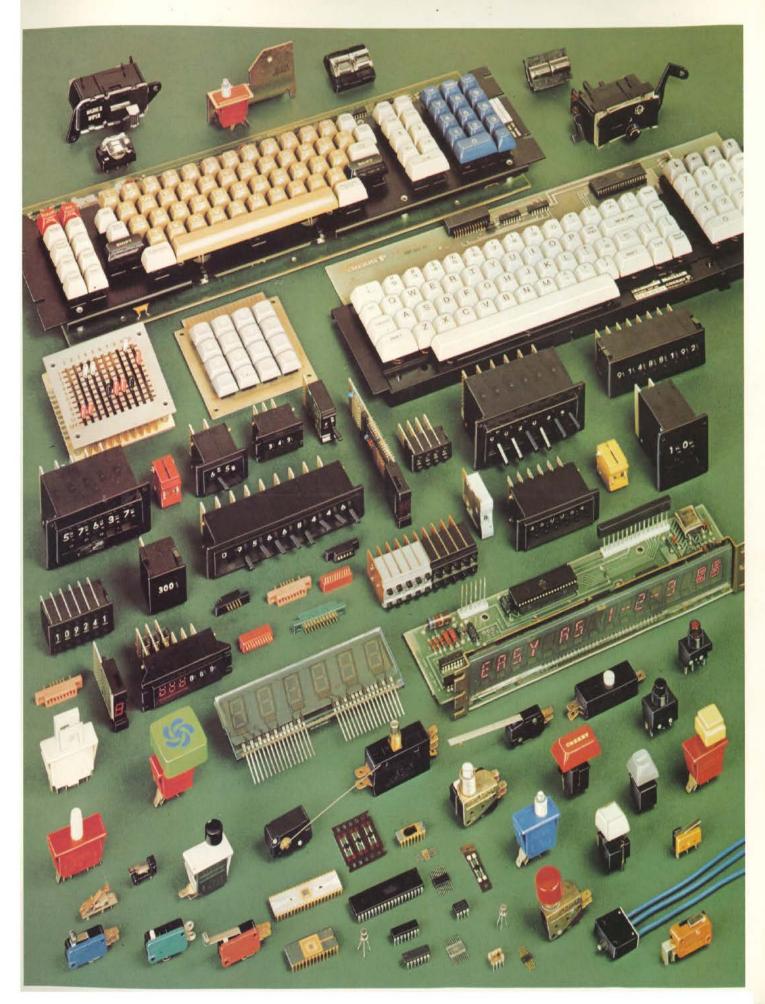
Phone: 312/689-7731



SELECTOR SWITCHES

When you need a switch to count . . . count on Cherry. For thumbwheel, leverwheel and pushwheel switches in a full range of alphanumeric readouts and output codes. Full range of sizes, too. And, for matrix selector switches with up to 2784 crosspoints . . . standard and stocked.

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3600 Sunset Avenue, Waukegan, IL 60085—312/689-7700—TWX 910/235-1572

WEATHERPROOF LINE INTERRUPT LOW TORQUE GENERAL PURPOSE

