



SF012S01



SR021S01



SF174B00

Easy Build-A-Switch

Below is a complete listing of available options for SF/SR SERIES THUMBWHEEL SWITCHES. Build-A-Switch allows you to mix and match options to create the switch you need—simply select desired option from each category. All available options are described on pages F-30 thru F-38. When building a part number, dashes, hyphens or spaces in the part number are not significant and are shown for clarity only. Complete HOW TO ORDER information is at the end of this section, page F-38. Use CONFIGURATION FORM, page F-39, for special instructions. Hardware is available separately, see section K.

MOUNTING STYLE	FUNCTION CODE	TERMINATIONS	COLOR/MARKING/STOPS/SEAL	NUMBER OF SECTIONS
Front Mount	Decimal 1 Pole		Black w/ White Markings	One

Special Switch No. Assigned By C&K

SF	012	160	9	J	0
SR	013	161	A	0	1
	014	163	B	9	2
	017	164	C		3
	018	165	D		4
	019	166	E		5
	020	167	F		6
	021	168	N		7
	022	169	R		8
	023	170	S		9
	047	171	T		
	048	172			
	050	173			
	052	174			
	053	176			
	054	177			
	055	178			
	056	179			
	057	180			
	060	181			
	061	182			
	066	183			
	072	184			
	074	185			
	091	187			
	092				
	099				

Configuration form required, see page F-39.

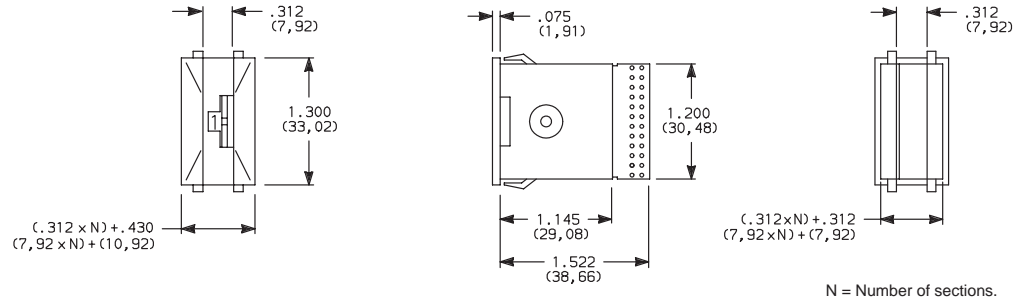


SF/SR Series

Thumbwheel Switches

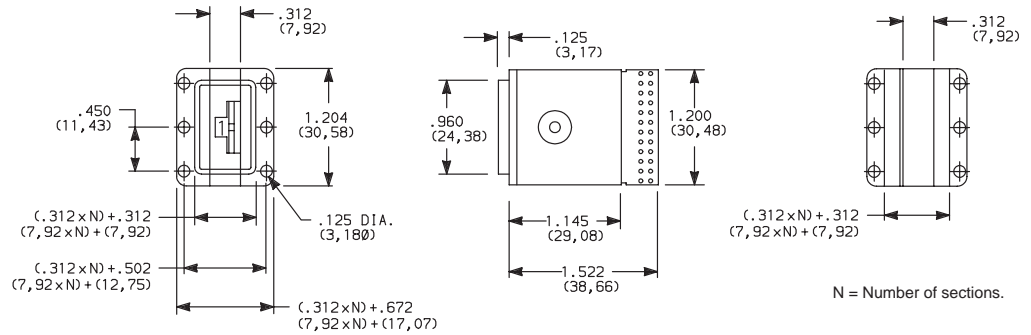
MOUNTING STYLE

SF SNAP-IN FRONT MOUNTING



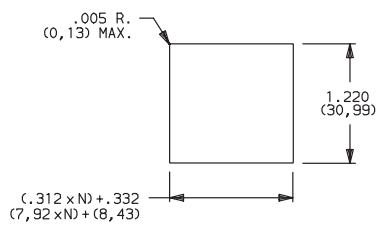
Part No. Shown: SF021S01

SR REAR MOUNTING (8MM FLANGE)

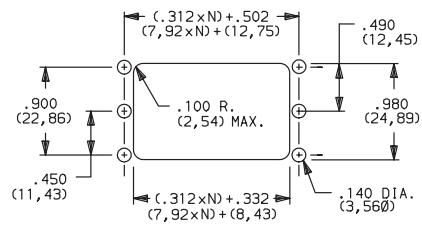


Part No. Shown: SR021S01

PANEL MOUNTING



SF



SR

N = Number of sections.

Recommended Panel Thickness: .046 - .125 (1,16 - 3,18)

FUNCTION CODE

012 DECIMAL—1 POLE, 10 POSITION

014 DECIMAL—1 POLE, 10 POSITION, MAKE BEFORE BREAK

W H E E L	SIGNALS CONNECTED TO COMMON SIGNAL C										
	0	1	2	3	4	5	6	7	8	9	C
0	●										●
1		●									●
2			●								●
3				●							●
4					●						●
5						●					●
6							●				●
7								●			●
8									●		●
9										●	●
	11	10	9	8	7	6	5	4	3	2	1
	TERM. LOCATION										

Available Terminations 012 Models: A, B, C, E, N, R, S, T

Available Terminations 014 Models: C, S

Configuration Form Required For B And R Terminations, See Page F-39.

013 DECIMAL—2 POLE, 10 POSITION, SEPARATE COMMONS

W H E E L	COMMON (C) CONN. TO TERMS. INDICATED										COMMON (C') CONN. TO TERMS. INDICATED											
	C	0	1	2	3	4	5	6	7	8	9	C'	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'
0	●											●										
1		●											●									
2			●											●								
3				●											●							
4					●											●						
5						●											●					
6							●											●				
7								●											●			
8									●											●		
9										●											●	
	FOR TERMINAL LOCATIONS CONSULT C & K.																					

Available Terminations: D, E

017 BCD W/ EXCESS 3 NOTATION; 1-2-4-8, 10 POSITION

W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0	●				●
1		●			●
2			●		●
3				●	●
4					●
5					●
6					●
7					●
8					●
9					●
	10	2	8	4	6
	TERM. LOCATION				

Available Terminations: A, B, C, S

Configuration Form Required For B Terminations, See Page F-39.

018 COMPLEMENT OF BCD; 1-2-4-8, 10 POSITION

W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0	●	●	●	●	●
1		●	●	●	●
2			●	●	●
3				●	●
4					●
5					●
6					●
7					●
8					●
9					●
	10	4	2	8	6
	TERM. LOCATION				

Available Terminations: A, B, C, N, R, S

Configuration Form Required For B and R Terminations, See Page F-39.

019 BCD W/ ODD BIT PARITY, 1-2-4-8, 10 POSITION

W H E E L	SIGNALS CONNECTED TO COMMON SIGNAL C					
	1	2	4	8	P	C
0						●
1		●				●
2			●			●
3				●		●
4					●	●
5						●
6						●
7						●
8						●
9						●
	12	10	8	4	2	6
	TERM. LOCATION					

Available Terminations: A, B, C, S

Configuration Form Required For B Terminations, See Page F-39.

020 BCD W/ 10 AT 0; 1-2-4-8, 10 POSITION

W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0	●				●
1		●			●
2			●		●
3				●	●
4					●
5					●
6					●
7					●
8					●
9					●
	2	10	8	4	6
	TERM. LOCATION				

Available Terminations: A, B, N, R

Configuration Form Required For B and R Terminations, See Page F-39.

021 BCD 0-9; 1-2-4-8, 10 POSITION

W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0					●
1		●			●
2			●		●
3				●	●
4					●
5					●
6					●
7					●
8					●
9					●
	10	8	6	2	4
	TERM. LOCATION				

Available Terminations: A, B, C, E, N, R, S, T

Configuration Form Required For B Terminations, See Page F-39.

022 BCD W/ COMPLEMENT 0-9; 1-2-4-8, 10 POSITION

W H E E L	SIGNALS CONNECTED TO COMMON SIGNAL C									
	1	2	4	8	1	2	4	8	C	
0					●	●	●	●	●	
1		●				●	●	●	●	
2			●				●	●	●	
3				●				●	●	
4					●			●	●	
5						●		●	●	
6							●	●	●	
7								●	●	
8									●	
9									●	
	3	4	5	6	10	9	8	7	2	
	TERM. LOCATION									

Available Terminations: A, B, C, N, R, S

Configuration Form Required For B and R Terminations, See Page F-39.

NOTE: For terminal location diagram, see fig. 1, page F-37.

FUNCTION CODE

023 AIKEN CODE 1-2-4-2; 10 POSITION

WHEEL	SIGNALS COMM. TO COMMON SIG. C	SIGNALS				
		1	2	4	2'	C
0						
1		●				●
2			●			●
3		●				●
4				●		●
5		●	●			●
6					●	●
7		●	●	●	●	●
8		●	●	●	●	●
9		●	●	●	●	●
		10	7, 8, 4, 5	2	12	
		TERM. LOCATION				

Available Terminations: A, B, C, E, N, R, S, T
 Configuration Form Required For B and R Terminations, See Page F-39.

047 DECIMAL—1 POLE; 11 POSITION; 0-10

048 DECIMAL—1 POLE; 11 POSITION; 0-9, -

047 WHEEL	048 WHEEL	SIGNALS COMM. TO COMMON SIG. C											
		0	1	2	3	4	5	6	7	8	9	10	C
0	0	●											●
1	1		●										●
2	2			●									●
3	3				●								●
4	4					●							●
5	5						●						●
6	6							●					●
7	7								●				●
8	8									●			●
9	9										●		●
-	10											●	●
		12	11	10	9	8	7	6	5	4	3	2	1
		TERM. LOCATION											

Available Terminations: C, S

052 DECIMAL—1 POLE, 16 POSITION 0-9, A-F

055 DECIMAL—1 POLE; 16 POSITION 0-15

052 WHEEL	055 WHEEL	SIGNALS COMM. TO COMMON SIG. C																
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C
0	0	●																●
1	1		●															●
2	2			●														●
3	3				●													●
4	4					●												●
5	5						●											●
6	6							●										●
7	7								●									●
8	8									●								●
9	9										●							●
A	10											●						●
B	11												●					●
C	12													●				●
D	13														●			●
E	14															●		●
F	15																●	●
		FOR TERMINAL LOCATIONS CONSULT C & K.																

Available Terminations: F

053 HEXADECIMAL COMPLEMENT; 1 POLE, 16 POSITION 0-9, A-F

056 HEXADECIMAL COMPLEMENT; 1 POLE, 16 POSITION 0-15

053 WHEEL	056 WHEEL	SIGNALS COMM. TO COMMON SIG. C				
		1	2	4	8	C
0	0	●	●	●	●	●
1	1		●	●	●	●
2	2			●	●	●
3	3				●	●
4	4	●	●		●	●
5	5		●		●	●
6	6	●			●	●
7	7			●	●	●
8	8	●	●		●	●
9	9		●		●	●
A	10	●			●	●
B	11		●		●	●
C	12	●	●		●	●
D	13			●	●	●
E	14	●			●	●
F	15			●	●	●
		10	8	6	2	4
		TERM. LOCATION				

Available Terminations: A, B, C, N, R, S
 Configuration Form Required For B and R Terminations, See Page F-39.

054 BINARY CODED HEXADECIMAL; 1 POLE, 16 POSITION, 0-9, A-F

057 BINARY CODED HEXADECIMAL; 1 POLE, 16 POSITION, 0-15

054 WHEEL	057 WHEEL	SIGNALS COMM. TO COMMON SIG. C				
		1	2	4	8	C
0	0					●
1	1	●				●
2	2		●			●
3	3	●	●			●
4	4			●		●
5	5	●			●	●
6	6	●	●			●
7	7	●	●	●		●
8	8				●	●
9	9	●			●	●
A	10	●	●			●
B	11	●	●			●
C	12			●	●	●
D	13	●			●	●
E	14	●	●			●
F	15	●	●			●
		10	8	6	2	4
		TERM. LOCATION				

Available Terminations: A, B, C, E, N, R, S, T
 Configuration Form Required For B and R Terminations, See Page F-39.

091 BLANK SECTION (INACTIVE)

Available Terminations: 9

092 BLANK SECTION W/ RIBBED CENTER (INACTIVE)

Available Terminations: 9

099 INTERMIXED SECTIONS

Specify on CONFIGURATION FORM, page F-39, and consult factory.

NOTE: For terminal location diagram, see fig. 1, page F-37.

FUNCTION CODE

061



KELVIN-VARLEY VOLTAGE DIVIDER

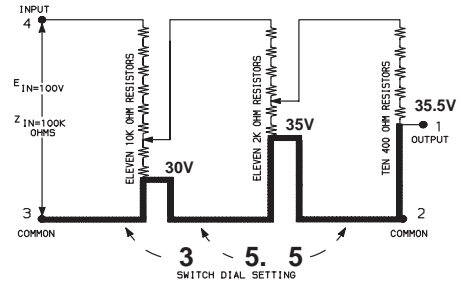
The Kelvin-Varley Voltage Divider contains the lowest component count in the industry to assure maximum reliability and long life. These dividers use a cascade arrangement of resistors to accurately divide voltages.

The accuracy and the resolution is not solely dependent on the accuracy of the resistors used, but mainly in the number of decades used. For example: a 100 volt signal can be divided in 10 volt steps with a 10 volt resolution with only one decade; or 1 volt steps with a 1 volt resolution with 2 decades; or the same 100 volt signal can be divided in 1mV steps with 1mV resolution using a 5 decade bank. All this is accomplished while the input impedance of the divider remains constant.

In each decade, all the resistors have the same values. The accuracy of these dividers is always defined as a percentage of "full scale voltage", not of "setting". For instance, an accuracy of 0.01% of full scale of a 100V signal input is +/- 10mV at any setting.

A value must be supplied for Input Resistance and Accuracy (%) Full Scale Voltage. A configuration form must be completed (see page F-39).

W H E E L	PINS 1 AND 2 CONNECTED ACROSS RESISTORS INDICATED										TERM. LOCATION				
	R0	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	1	2	3	4
0	●	●													
1		●	●												
2			●	●											
3				●	●										
4					●	●									
5						●	●								
6							●	●							
7								●	●						
8									●	●					
9										●	●				
											8, 10	4, 6	12	1, 2	



Available Terminations: B, R

Configuration Form Required For B and R Terminations, See Page F-39.

Typical three decade connection (rear view).

INPUT RESISTANCE — 1K to 100K ohms.

ACCURACY (%) FULL SCALE VOLTAGE — 0.1, 0.5 and 1.0.

066 9'S COMPLEMENT OF BCD; 10 POSITION

W H E E L	SIGNALS CONN. TO COMM. SIG. C					TERM. LOCATION				
	1	2	4	8	C	6	8	2	4	10
0	●				●					
1		●			●					
2	●	●	●		●					
3		●	●		●					
4	●		●		●					
5		●	●		●					
6	●	●			●					
7		●			●					
8	●				●					
9					●					

Available Terminations: A, B, C, N, R, S

074 RESISTANCE DECADE; 1-2-3-6 CODE; 10 POSITION (W/O COMPONENTS)

W H E E L	RESISTORS IN CIRCUIT						TERM. LOCATION	
	R1	R2	R3	R6	A	B	10	2
0					●	●		
1	●							
2		●						
3			●					
4	●							
5		●						
6	●	●						
7	●							
8		●						
9			●					

Available Terminations: A, B, N, R

Configuration Form Required For B and R Terminations, See Page F-39.

NOTE: For terminal location diagram, see fig. 1, page F-37.

FUNCTION CODE

072, 160, 161, 163, 164, 165

CAPACITANCE DECADE



This switch uses a 1-2-3-4 code specifically for low component count and high reliability. All capacitors are of high quality type (consult factory for capacitor specifications), and are fully tested before and after assembly. For best results, paralleling the commons of all the switches will obtain a high accuracy and resolution as shown in the schematic.

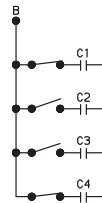
FUNCTION CODE	CAPACITANCE RANGE	MAXIMUM VOLTAGE
072	WITHOUT COMPONENTS	
160	10 to 90.0 μ f	10 V DC
161	1 to 9.0 μ f	15 V DC
163	0.1 to 0.9 μ f	25 V DC
164	0.01 to 0.09 μ f	50 V DC
165	0.001 to 0.009 μ f	100 V DC

Available Terminations 160, 161, 163, 164, 165 Models: B
Available Terminations 072 Models: A, B

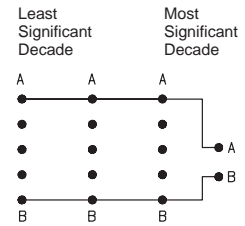
Other capacitors available, consult factory.

Configuration form required for 072 models when ordered with B terminations, see page F-39.

W H E E L	CAPACITORS IN CIRCUIT				A	B
	C1	C2	C3	C4		
0						
1	●					
2		●				
3			●			
4				●		
5	●					
6		●				
7			●			
8	●					
9		●				
	10	7	4	2	12	
	TERM. LOCATION					



Schematic



Typical three decade connection (rear view).

NOTE: For terminal location diagram, see fig. 1, page F-37.

F **060, 166, 167, 168, 169, 170, 171, 172** 1, 2, 2, 2, 2 CODE

RESISTANCE DECADE



The Resistance Decade Switch is a precision built switch which includes high quality built-in resistors. This switch converts the number displayed at the window of the switch to its decimal equivalent in resistance. Resistance decade switches are fully assembled and tested with C&K's high quality precision components and equipment. A variety of resistance decades are available in a range from 0 ohms to 1M ohms, see below for specific ranges.

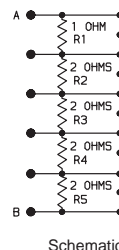
FUNCTION CODE	RESISTANCE RANGE
060	WITHOUT COMPONENTS
166	0 to 9M ohms in 1M ohm steps
167	0 to 900K ohms in 100K ohm steps
168	0 to 90K ohms in 10K ohm steps
169	0 to 9K ohms in 1K ohm steps
170	0 to 900 ohms in 100 ohm steps
171	0 to 90 ohms in 10 ohm steps
172	0 to 9 ohms in 1 ohm steps

All resistors except for those used with section type 172 are 1% metal film rated at 1/8 watt @ 25°C type m 55, other resistors are available depending on application, consult factory.

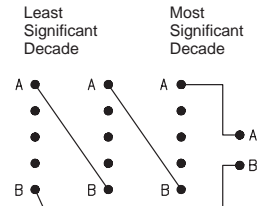
Available Terminations 166, 167, 168, 169, 170, 171, 172 Models: B, R

Available Terminations 060 Models: A, N

W H E E L	RESISTORS IN CIRCUIT BETWEEN A & B					A	B
	R1	R2	R3	R4	R5		
0							
1	●						
2		●					
3			●				
4				●			
5	●						
6		●					
7			●				
8	●						
9		●					
	2, 4	4, 6, 8	8, 10, 12	2	12		
	TERM. LOCATION						



Schematic



Typical three decade connection (rear view).

NOTE: For terminal location diagram, see fig. 1, page F-37.

FUNCTION CODE

173, 174, 176, 177



Available Terminations 174, 176, 177 Models: B, R
Available Terminations 173 Models: A, N

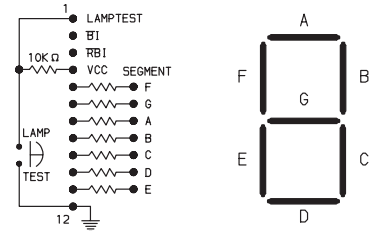
SEVEN SEGMENT DRIVER

This Seven Segment Driver has a built-in decoder driver. The decimal number displayed is converted to BCD and supplied to the decoder's BCD inputs. The Seven Segment (A thru G) lines are available at the PC board terminals in addition to the V_{CC}, ground, ripple blanking input and lamp test. This switch features active low outputs designed for driving common-anode LED's or incandescent indicators directly.

FUNCTION CODE	LOGIC TYPE	I.C. TYPE	OPERATING VOLTAGE	CURRENT SINK/SOURCE	MAXIMUM VOLTAGE
173	WITHOUT COMPONENTS				
174	CMOS	14511B	10 V DC +/- 5 V DC	20 mA source	20 V
176	TTL	7446	5 V DC +/- 5%	40 mA sink	30 V
177	TTL	7447	5 V DC +/- 5%	40 mA sink	15 V

Other I.C.'s available, consult factory.

W H E E L	● DENOTES SEGMENT "ON" DIAL											
	A	B	C	D	E	F	G	V _{CC}	B ₁	B ₀	LAMPTEST	GND
0	●	●	●	●	●	●						
1	●	●										
2	●	●	●	●								
3	●	●	●	●	●							
4	●	●	●		●	●						
5	●	●			●	●						
6	●	●	●	●	●							
7	●	●										
8	●	●	●	●	●	●						
9	●	●	●	●	●	●						
	7	8	9	10	11	5	6	4	3	2	1	12
	TERM. LOCATION											



Typical connection for section types 176 and 177; or other connections, consult factory.

For typical application, the blanking inputs are not connected but may be used for special applications. External resistors must be used to limit the LED current at outputs A thru G.

NOTE: For terminal location diagram, see fig. 1, page F-37.

050, 178, 179



Available Terminations 178, 179 Models: B, R
Available Terminations 050 Models: A, N

COUNTER/TIMER DECADE

When the BCD of the counter is equal to the BCD equivalent of the decimal number displayed by the switch, an "Equal" signal at the common of the switch is generated. Blocking diodes are connected between the counter's BCD output and the switch's coded input to assure proper decoding. The "Equal" output has provisions for a "Pull-up" (Rp) resistor for cascading purposes. Carry out, count input, reset, 9's preset, equal output, in addition to power inputs are available at the PC board terminals.

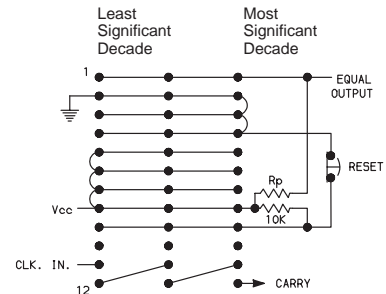
APPLICATION

Pulses applied at the count input of the LSD switch are counted and converted to BCD; the "BCD 8" output of the LSD, and so forth; when the accumulated count in the decade counter equals the number displayed by the switches, an "Equal" signal is generated at the "Equal" output.

FUNCTION CODE	LOGIC TYPE	I.C. TYPE	OPERATING VOLTAGE	R _p
050	WITHOUT COMPONENTS			
178	TTL	7490A	5 V DC +/- 5%	510 ohms
179	CMOS	74C90	3 to 15 V DC	47K ohms

Other I.C.'s available, consult factory.

TERM. NO.	FUNCTION
1	EQUAL OUTPUT OUT
2	GROUND
3	GROUND
4	9 COMPLEMENT
5	V _{CC}
6	V _{CC}
7	V _{CC}
8	V _{CC}
9	RESET
10	N.O.
11	CLOCK INPUT IN
12	CLOCK OUTPUT OUT



Typical three decade connection (rear view). For typical application, C&K suggests terminal #4 be grounded.

Only one "Pull-up" (Rp) resistor is recommended per system, other resistors of different values may be used for specific applications, consult factory.

NOTE: For terminal location diagram, see fig. 1, page F-37.



FUNCTION CODE

**180, 181, 182, 183, 184, 185,
187**



Available Terminations 180, 181, 182, 183, 184, 185
Models: B, R

Available Terminations 187 Models: A, N

DIGITAL COMPARATOR

These switches have a BCD decade comparator. The switch converts the decimal number displayed by the switch into a BCD (1,2,4,8) format which is presented as Word "B" to the comparator IC. Word "A" is presented at the PC board terminals in addition to the "High", "Equal" and "Low" carry inputs. "High", "Equal" and "Low" carry outputs are also available at the PC board to enable cascading of more than one decade to form multidecade digital comparators. "Pull-up" resistors are provided at the switch end for greater noise immunity.

APPLICATION

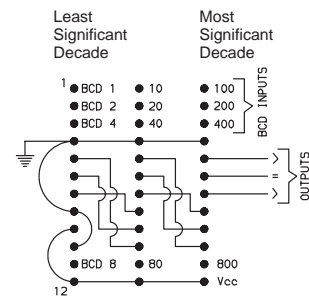
1. Unused input should be connected to ground.
2. Unused decades: BCD inputs should be connected to ground and corresponding switch set to zero.
3. Unused polarity inputs: (+) is Low and (-) is High. If it is not to be used, connect the (+) input to V_{CC} through 1K ohm resistor and set switch on "-"; if the switch is to be placed on "+", ground the (+) input.

FUNCTION CODE	LOGIC TYPE	I.C. TYPE	NO. OF POSITIONS	WHEEL MARKING	OPERATING VOLTAGE
180	TTL	7485	10	0-9	5 V DC +/- 5%
181	CMOS	4063B	10	0-9	6 to 15 V DC
182	TTL	7485	2	0/1 stopped	5 V DC +/- 5%
183	CMOS	4063B	2	0/1 stopped	6 to 15 V DC
184	TTL	7485	2	+/- stopped	5 V DC +/- 5%
185	CMOS	4063B	2	+/- stopped	6 to 15 V DC
187	WITHOUT COMPONENTS				

Other I.C.'s available, consult factory.

F

TERM NO.	FUNCTION
1	BCD 1 IN
2	BCD 2 IN
3	BCD 4 IN
4	GROUND
5	LESS THAN OUT
6	EQUAL TO OUT
7	GREATER THAN OUT
8	GREATER THAN IN
9	EQUAL TO IN
10	LESS THAN IN
11	BCD 4 IN
12	V _{cc}

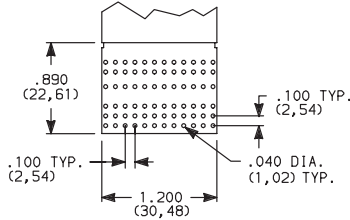


Typical three decade connection (rear view).

NOTE: For terminal location diagram, see fig. 1, page F-37.

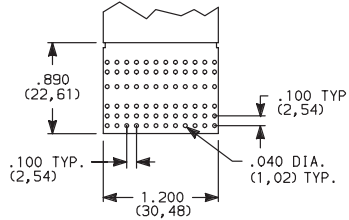
TERMINATIONS

A EXTENDED BOARD W/ PROVISIONS FOR COMPONENTS

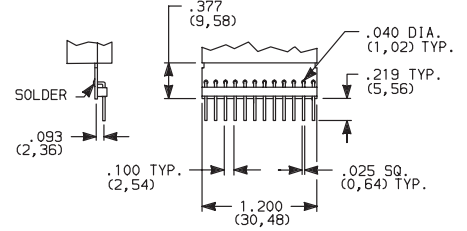


Signal traces cut except for common(s).

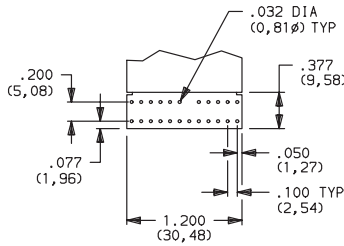
B EXTENDED BOARD W/ COMPONENTS MOUNTED



C TYPE S W/ SOLDER PINS (HEADER)

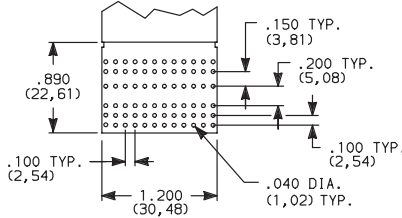


D FOR 013 CODE ONLY

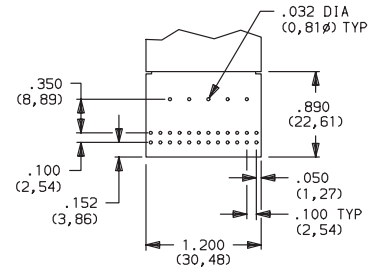


For terminal locations, consult factory.

E EXTENDED BOARD

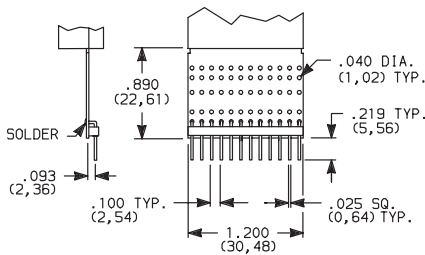


F FOR 052, 055 CODES ONLY



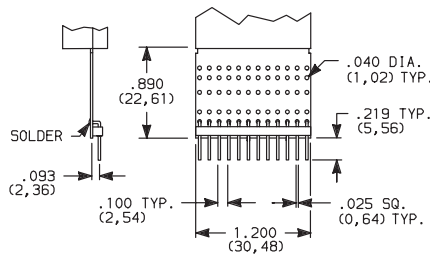
For terminal locations, consult factory.

N TYPE A W/ SOLDER PINS (HEADER) AND PROVISION FOR COMPONENTS



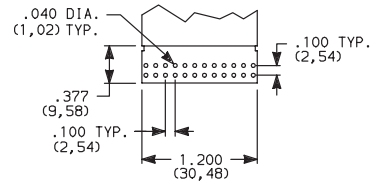
Signal traces cut except for common(s).

R TYPE B W/ SOLDER PINS (HEADER) AND COMPONENTS MOUNTED

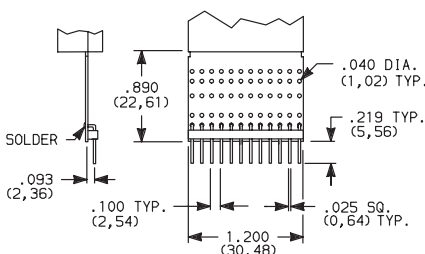


Signal traces cut except for common(s).

S (STD.)



T TYPE E W/ SOLDER PINS (HEADER)



9 ANY COMBINATION OF TERMINATION CONFIGURATION OR SPECIAL TERMINATIONS. ALSO SPECIFIED W/ FUNCTION CODES 091 AND 092.

Specify on configuration form, page F-39 and consult factory.

TERMINAL LOCATION NUMBERS

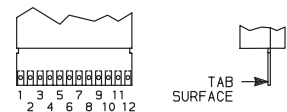


Fig. 1

See function codes, pages F-30 thru F-36, for signal locations.

NOTE: PC Board 1/32" (0,79) thick.

COLOR/MARKING/STOPS/SEAL

- J** DUST LENS (prevents the character fare of the wheel from abrasion and dust).
- 0** (STD.) MATTE BLACK HOUSING (Gloss black wheel with white characters, no stops.)
- 9** SPECIAL COLORS, MARKINGS FOR HOUSING OR WHEEL, STOPS (Specify on CONFIGURATION FORM, page F-39 and consult factory.)

NUMBER OF SECTIONS

- 0** Switch section only, no assembly (blank bodies are considered sections. Endplates are not sections).
- 1-8** Number of switch sections in assembly, includes endplates.
- 9** More than 8 switch sections, specify on CONFIGURATION FORM, page F-39 and consult factory.

NOTE: Endplates and blank sections available separately, see catalog section K.

HOW TO ORDER

All available SF/SR SERIES THUMBWHEEL SWITCH options are listed on page F-29, and are described on pages F-30 thru F-38. Dashes, hyphens or spaces in the part number are not significant and are shown for clarity only. Use CONFIGURATION FORM, page F-39, for special instructions. Endplates and blank sections are available separately, see section K.

SPECIFICATIONS

CONTACT RATING:
 CARRY: 2 AMPS continuous.
 SWITCH: 0.4 VA max., 50 mA max., 28 V DC or 120 V AC max.
OPERATING VOLTAGE: 50 mV to 28 V DC or 120 V AC.
CONTACT RESISTANCE: Below 100 milliohms typ. @ 2-4 V DC, 100 mA.
INSULATION RESISTANCE: 10⁹ ohms min. (dry).
DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between common terminal and any output.
OPERATING TEMPERATURE: -40°C to 70°C.

MATERIALS

HOUSING: ABS plastic (UL 94V-0).
THUMBWHEEL: ABS plastic (UL 94V-0).
ROTOR CONTACTS: Precious metal on copper alloy.
STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.

NOTE: Specifications and materials listed above are general specifications for switches with standard options. For information on specific and custom switches, consult factory.

F

Configuration Form

GRAY SHADED AREAS TO BE FILLED IN BY Datex.

Datex CATALOG PART NO.

S

Datex PART NUMBER

Datex PART NUMBER

COMPANY NAME _____

ADDRESS _____ TEL.# _____

CUSTOMER CONTACT _____ DATE _____

ORIGINATED BY _____ SALES REP. _____

CUSTOMER PRINT REVISION:

DETAILS:

THUMBWHEEL SECTIONS	NO. OF SEC.	FUNCTION CODE—TERMINATIONS— COLOR/MARKING/STOPS/SEAL	DESCRIBE IN APPROPRIATE ROW
	1	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	2	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	3	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	4	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	5	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	6	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	7	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	8	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	9	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	10	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	
	11	S - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> -	

ENTER OPTION CODES IN APPROPRIATE BOXES. FUNCTION CODES INCLUDE BLANK SECTIONS (SEE CATALOG PAGE F-24).

F

QUALITY CONTROL INSTRUCTIONS

PRODUCTION APPROVAL	DATE	
<input type="text"/>	<input type="text"/>	
Q.C. APPROVAL	DATE	
<input type="text"/>	<input type="text"/>	
REV.	INITIALS	DATE
<input type="text"/>	<input type="text"/>	<input type="text"/>

FOR SWITCHES WITH MORE THAN 11 SECTIONS, CONTINUE ON ADDITIONAL SHEETS.

SPECIAL INSTRUCTIONS OR SPECIFICATIONS: