c3controls 22mm IEC Pilot Devices



How to configure and buy c3controls 22mm selector switches.

c3controls' single cam design eliminates the need for multiple cam configurations and selector switch configuration nightmares, ensuring 100% cam selection configuration accuracy. c3controls' one cam does it all vs. our competitors who need up to fifteen cams to perform the same function.

To help you configure your c3controls 22mm selector switch on the web, choose from one of the scenarios below.

Scenario 1

I have a c3 part number and no description or an understanding of switch function:

If you have a c3controls part number and you do not have a product description or an understanding of how the switch functions, then click the button below for product configuration codes and descriptions.

CLICK HERE FOR SCENARIO 1 SUPPORT

Scenario 2

I do not have a c3 part number, but know how
I want the switch to perform:

If you do not have a c3controls part number or a product description, and you understand how the switch functions, then click the button below for instructions on how to select your circuit designation, contact block, and mounting position to build your c3controls part number.

CLICK HERE FOR SCENARIO 2 SUPPORT

Scenario 1

I have a c3controls part number and no description or an understanding of switch function.

Use the product configurator charts below to help you match your c3controls part number with the corresponding description

and part number CODE in each of the sections.

22mm IEC Selector Switches (Illuminated)

VIII* IX*

W22I + II + III + IV + V + VI + VIII + IX or W22ISRC-IHG-FM24LG-10

*NOTE: Contact block configurations are based on circuit designations (see charts below).

I. OPERATOR TYPE				
CODE	DESCRIPTION	LIST		
W22I	Illuminated Selector Switch	\$14.00		
II. OPERATOR FUNCTION				

II. UPERATUR FUNCTION				
CODE	POSITION/FUNCTION LIST			
S2	2/Maintained			
SRL	2/Spring Return, R to L	\$ 2.90		
S3	3/Maintained			
SLC	3/Spring Return, L to C	\$ 2.90		
SRC	3/Spring Return, R to C	\$ 2.90		
SAC	3/Spring Return, L & R to C	\$ 2.90		

III. BEZEL TYPE			
DESCRIPTION	LIST		
Black Polyester (Type 4X)			
Aluminum (Type 4)	\$ 3.00		
	DESCRIPTION Black Polyester (Type 4X)		

IV. HANDLE TYPE			
DESCRIPTION	LIST		
Illuminated Standard	\$ 7.00		
Illuminated Lever	\$ 7.00		
	DESCRIPTION Illuminated Standard		

V. HANDLE/INSERT COLOR				
CODE	HANDLE COLOR INSERT COLOR			
Α	Amber	White		
B C	Blue	White		
С	Clear	Black		
G	Green	White		
R	Red	White		
W	White	Black		
Υ	Yellow	Black		

VI. VOLTAGE				
CODE	DESCRIPTION	LIST		
	FULL VOLTAGE			
FM6	6V AC/DC	\$12.00		
FM12	12V AC/DC	\$12.00		
FM24	24V AC/DC	\$12.00		
FM120	120V AC/DC	\$12.00		
	TRANSFORMER (50/60 Hz)			
TM120	120V AC*	\$28.00		
TM240	240V AC*	\$28.00		
TM480	480V AC*	\$28.00		
RESISTOR				
RM120	120V AC/DC	\$15.00		
RM240	240V AC/DC*	\$15.00		
MULTI-V	/OLTAGE, NON-RELAMPABLE (LED	ONLY)		
MVD	20-277V AC or DC (Standard)	\$37.00		
MVF	20-277V AC or DC (Flashing)	\$58.00		
MULTI-VOLTAGE, RELAMPABLE (LED ONLY)				
RMVD	20-277V AC or DC (Standard)	\$40.00		
RMVF	20-277V AC or DC (Flashing)	\$61.00		
*NOTE: A 3-position operator function is not an option for TM120, TM240, TM480 and RM240.				

VII. LAMP TYPE/COLOR					
CODE	COLOR	LIST			
	LED				
LA	Amber	\$14.00			
LB	Blue	\$14.00			
LG	Green	\$14.00			
LR	Red	\$14.00			
LW	White	\$14.00			
LED MULTI-VOLTAGE, NON-RELAMPABLE					
LW	White				
	ED MULTI-VOLTAGE, RELAM	PABLE			
LA	Amber	\$ 8.00			
LB	Blue	\$ 8.00			
LG	Green	\$ 8.00			
LR	Red	\$ 8.00			
LT	Translucent White	\$ 8.00			
LW	White	\$ 8.00			
NL	No Lamp	-\$ 1.80			

VIII. C	UNTACT BLUCK CUNFIGUA (LEFT SIDE)	AIICI	
CODE	DESCRIPTION	LIST	
(Blank)	Operator without Contact Blocks	_	
10	1 Normally Open Contact Block	\$ 8.10	
01	1 Normally Closed Contact Block	\$ 8.10	
E	1 Early Make Contact Block	\$ 8.10	
D	1 Delayed Break Contact Block	\$ 8.10	
20	2 Normally Open Contact Blocks	\$16.20	
02	2 Normally Closed Contact Blocks	\$16.20	
11	1 Normally Open and 1 Normally Closed Contact Blocks	\$16.20	
NOTE: When using a 120V, 240V or 480V transformer light			

module or 240V resistor light module, you are limited to two contact blocks on one side (left side).

IX. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART VIII FROM ABOVE)

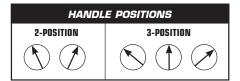


Circuit Designation Charts

O = OPEN X = CLOSED

CONTACT BLOCK SELECTION FOR 2-position selector switches				
CIRCUIT	HANDLE I	POSITION	BLOCK CATALOG	MOUNTING
DESIG.	LEFT	RIGHT	NUMBER	POSITION
Н	0	Χ	WN0	EITHER
G	Х	0	WNC	EITHER

CIRCUIT	HANDLE POSITION		BLOCK CATALOG	MOUNTING	
DESIG.	LEFT	CENTER	RIGHT	NUMBER	POSITION
A	Х	0	0	WN0	LEFT
В	0	Х	0	WNC	EITHER
С	0	0	Χ	WN0	RIGHT
D	0	Х	Χ	WDB	LEFT
E	Χ	0	Χ	WEM	EITHER
F	Х	Х	0	WDB	RIGHT





Scenario 1 (continued)

22mm IEC Selector Switches (Non-Illuminated)



Example: To build one of our most popular Selector Switches, the part number would be W22 + II + III + IV + V + VI + VII or W22S3-HW-10/10 *NOTE: Contact block configurations are based on circuit designations (see charts below).

I. OPERATOR TYPE			
CODE	DESCRIPTION	LIST	
W22	Selector Switch	\$10.00	
	Condition Connecting		

II. OPERATOR FUNCTION			
CODE POSITION/FUNCTION LIST			
2/Maintained	_		
2/Spring Return, R to L	\$ 2.90		
3/Maintained	_		
3/Spring Return, L to C	\$ 2.90		
3/Spring Return, R to C	\$ 2.90		
3/Spring Return, L & R to C	\$ 2.90		
	POSITION/FUNCTION 2/Maintained 2/Spring Return, R to L 3/Maintained 3/Spring Return, L to C 3/Spring Return, R to C		

	III. BEZEL TYPE	
CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	
Α	Aluminum (Type 4)	\$ 3.00

IV. HANDLE TYPE			
CODE	DESCRIPTION	LIST	
Н	Standard	\$ 5.10	
L	Lever	\$ 5.10	

V. HANDLE INSERT COLOR	
COLOR	
Blue	
Green	
Grey	
Red	
White	
Yellow	





VI. CC	ONTACT BLOCK CONF (LEFT SIDE)	IGURATION
CODE	DESCRIPTION	LICT

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
10	1 Normally Open Contact Block	\$ 8.10
01	1 Normally Closed Contact Block	\$ 8.10
E	1 Early Make Contact Block	\$ 8.10
D	1 Delayed Break Contact Block	\$ 8.10
20	2 Normally Open Contact Blocks	\$16.20
02	2 Normally Closed Contact Blocks	\$16.20
11	1 Normally Open and 1 Normally Closed Contact Blocks	\$16.20

VII. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART VI FROM ABOVE)

Each operating handle is black with a factory assembled color insert.

Circuit Designation Charts

O = OPEN X = CLOSED

CONTACT BLOCK SELECTION FOR 2-position selector switches					
CIRCUIT DESIG.	HANDLE POSITION LEFT RIGHT		BLOCK CATALOG NUMBER	MOUNTING POSITION	
Н	0	Х	WN0	EITHER	
G	Х	0	WNC	EITHER	

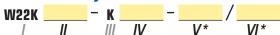
CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES					
CIRCUIT DESIG.	HANDLE POSITION LEFT CENTER RIGHT		BLOCK CATALOG NUMBER	MOUNTING POSITION	
A	Χ	0	0	WN0	LEFT
В	0	Х	0	WNC	EITHER
С	0	0	Χ	WN0	RIGHT
D	0	Х	Χ	WDB	LEFT
Е	Χ	0	Χ	WEM	EITHER
F	Χ	Χ	0	WDB	RIGHT

HANDLE POSITIONS			
2-POSITION	3-POSITION		



Scenario 1 (continued)

22mm IEC Keyed Selector Switches



Example: To build one of our most popular Keyed Selector Switches, the part number would be W22K + II + K + IV + V + VI or W22KS3-KRA-10/10 *NOTE: Contact block configurations are based on circuit designations (see charts below).

	I. OPERATOR TYPE	
CODE	DESCRIPTION	LIST
W22K	Keyed Selector Switch	\$22.00

	II. OPERATOR F	UNCTION	
CODE	POS./FUNCTION	AVAIL. KEY REMOVAL POSITION(S)	LIST
S2	2/Maintained	RA,RR,RL	\$16.00
SRL	2/Spring Return, R to L	RL	\$18.00
S3	3/Maintained	RA,RL,RR,RC, RLC,RRC	\$19.00
SLC	3/Spring Return, L to C	RC,RR,RRC	\$22.00
SRC	3/Spring Return, R to C	RC,RL,RLC	\$22.00
SAC	3/Spring Return, L&R to C	RC	\$22.00

III. BEZEL/INDICATOR COLOR		
CODE	DESCRIPTION	
K	Black Bezel/White Indicator	

IV. KEY REMOVAL POSITION		
CODE	REMOVAL POSITION	
RA	All	
RL	Left Only	
RR	Right Only	
RC	Center Only	
RLC	Left & Center Only	
RRC	Right & Center Only	





V. CONTACT BLOCK CONFIGURATION
(LEFT SIDE)

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	
10	1 Normally Open Contact Block	\$ 8.10
01	1 Normally Closed Contact Block	\$ 8.10
Е	1 Early Make Contact Block	\$ 8.10
D	1 Delayed Break Contact Block	\$ 8.10
20	2 Normally Open Contact Blocks	\$16.20
02	2 Normally Closed Contact Blocks	\$16.20
11	1 Normally Open and 1 Normally Closed Contact Blocks	\$16.20

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

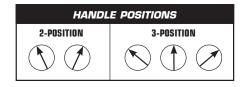
(USE CHART V FROM ABOVE)

Circuit Designation Charts

 $0 = OPEN \quad X = CLOSED$

	CONTACT BLOCK SELECTION FOR 2-position selector switches					
CIRCUIT HANDLE POSITION BLOCK CATALOG MOUNTII DESIG. LEFT RIGHT NUMBER POSITION						
Н	0	Х	WN0	EITHER		
G	Х	0	WNC	EITHER		

CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES					
CIRCUIT DESIG.		IDLE POS		BLOCK CATALOG NUMBER	MOUNTING POSITION
A	X	OENTER	0	WNO	LEFT
В	0	X	0	WNC	EITHER
С	0	0	Χ	WN0	RIGHT
D	0	Х	Χ	WDB	LEFT
E	Χ	0	Χ	WEM	EITHER
F	Х	Х	0	WDB	RIGHT





Scenario 2

I do not have a c3controls part number, but know how I want the switch to perform.

To create a complete c3controls part number, simply follow the steps below by using the corresponding circuit designation and product configurator charts.

- 1. Using the circuit designation charts on page 6, choose the chart that corresponds with how many positions you need the switch to have. Example: 2 or 3-positions.
- 2. For each operator handle position you will need to select a circuit designation that matches the switch performance for each of these positions.
- 3. Once you have identified each circuit designation code, use the same circuit designation chart to determine the type of block (Normally Open, Normally Closed, etc.) and the mounting position (Left, Right, etc.).
- 4. Now that you know what type of contact blocks you need and their mounting positions, it is now time to build your complete c3controls part number. Using the product configurator charts on pages 6 and 7, match the c3controls product description and corresponding part number CODE in each of the sections to create your c3controls part number.

Note: When ordering a fully assembled switch, the contact block catalog numbers in the circuit designation charts and the contact block configurator codes may not match. Here is a quick guide to their meanings:

WNO = 1 Normally Open Contact Block

WNC = 1 Normally Closed Contact Block

WDB = 1 Delayed Break Contact Block

WEM = 1 Early Make Contact Block

Example:

3-Position, Maintained, Hand-Off-Auto (HOA) Selector Switch

22mm IEC Non-Illuminated Selector Switch, 3-Position, Maintained, Black Polyester Bezel (Type 4X), Standard Handle with White Insert, and 1 Normally Open Contact Block (left mounted) and 1 Normally Open Contact Block (right mounted).

CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES					
CIRCUIT	HANDLE POSITION		BLOCK CATALOG	MOUNTING	
DESIG.	LEFT	CENTER	RIGHT	NUMBER	POSITION
Α	Χ	0	0	WN0	LEFT
В	0	X	0	WNC	EITHER
С	0	0	Χ	WN0	RIGHT
D	0	Х	Χ	WDB	LEFT
Е	Χ	0	Χ	WEM	EITHER
F	Χ	X	0	WDB	RIGHT

c3 Part #: W22S3-HW-10/10



Scenario 2 (continued)

Circuit Designation Charts

O = OPEN X = CLOSED

CONTACT BLOCK SELECTION FOR 2-position selector switches					
CIRCUIT	HANDLE I	MOUNTING			
DESIG.	LEFT	RIGHT	NUMBER	POSITION	
Н	0	Х	WN0	EITHER	
G	Х	0	WNC	EITHER	

CONTACT	CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES				
CIRCUIT DESIG.	HAN	VDLE POS		BLOCK CATALOG NUMBER	MOUNTING POSITION
A	X	0	0	WNO	LEFT
В	0	Х	0	WNC	EITHER
C	0	0	Х	WNO	RIGHT
D	0	Х	Х	WDB	LEFT
E	Χ	0	Х	WEM	EITHER
F	Χ	Х	0	WDB	RIGHT
 	_ X	X		MDR	KIGHI

HANDLE POSITIONS			
2-POSITION	3-POSITION		

22mm IEC Selector Switches (Illuminated)

W22I + II + III + IV + V + VI + VII + VIII + IX or W22ISRC-IHG-FM24LG-10

*NOTE: Contact block configurations are based on circuit designations (see charts above).

I. OPERATOR TYPE				
CODE		DESCRIPTION	LIST	
W22I		Illuminated Selector Switch	\$14.00	
	II. OPERATOR FUNCTION			

CODE	POSITION/FUNCTION	LIST
S2	2/Maintained	_
SRL	2/Spring Return, R to L	\$ 2.90
S3	3/Maintained	
SLC	3/Spring Return, L to C	\$ 2.90
SRC	3/Spring Return, R to C	\$ 2.90
SAC	3/Spring Return, L & R to C	\$ 2.90

III. BEZEL TYPE			
CODE	DESCRIPTION	LIST	
(Blank)	Black Polyester (Type 4X)		
Α	Aluminum (Type 4)	\$ 3.00	

IV. HANDLE TYPE	
DESCRIPTION	LIST
Illuminated Standard	\$ 7.00
Illuminated Lever	\$ 7.00
	DESCRIPTION Illuminated Standard

V. HANDLE/INSERT COLOR		
CODE	HANDLE COLOR	INSERT COLOR
Α	Amber	White
В	Blue	White
B C	Clear	Black
G	Green	White
R	Red	White
W	White	Black
Υ	Yellow	Black

	VI. VOLTAGE	
CODE	DESCRIPTION	LIST
	FULL VOLTAGE	
FM6	6V AC/DC	\$12.00
FM12	12V AC/DC	\$12.00
FM24	24V AC/DC	\$12.00
FM120	120V AC/DC	\$12.00
	TRANSFORMER (50/60 Hz)	
TM120	120V AC*	\$28.00
TM240	240V AC*	\$28.00
TM480	480V AC*	\$28.00
RESISTOR		
RM120	120V AC/DC	\$15.00
RM240	240V AC/DC*	\$15.00
MULTI-V	VOLTAGE, NON-RELAMPABLE (LED	ONLY)
MVD	20-277V AC or DC (Standard)	\$37.00
MVF	20-277V AC or DC (Flashing)	\$58.00
MULTI-VOLTAGE, RELAMPABLE (LED ONLY)		
RMVD	20-277V AC or DC (Standard)	\$40.00
RMVF	20-277V AC or DC (Flashing)	\$61.00
*NOTE: A 3-position operator function is not an option for TM120, TM240, TM480 and RM240.		

VII. LAMP TYPE/COLOR		
CODE	COLOR	LIST
	LED	
LA	Amber	\$14.00
LB	Blue	\$14.00
LG	Green	\$14.00
LR	Red	\$14.00
LW	White	\$14.00
LED MULTI-VOLTAGE, NON-RELAMPABLE		
LW	White	_
L	ED MULTI-VOLTAGE, RELAI	VIPABLE
LA	Amber	\$ 8.00
LB	Blue	\$ 8.00
LG	Green	\$ 8.00
LR	Red	\$ 8.00
LT	Translucent White	\$ 8.00
LW	White	\$ 8.00
NL	No Lamp	-\$ 1.80

	ONTACT BLOCK CONFIGUR (LEFT SIDE)	
CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
10	1 Normally Open Contact Block	\$ 8.10
01	1 Normally Closed Contact Block	\$ 8.10
E	1 Early Make Contact Block	\$ 8.10
D	1 Delayed Break Contact Block	\$ 8.10
20	2 Normally Open Contact Blocks	\$16.20
02	2 Normally Closed Contact Blocks	\$16.20
11	1 Normally Open and 1 Normally Closed Contact Blocks	\$16.20
NOTE: When using a 120V, 240V or 480V transformer light module or 240V resistor light module, you are limited to two		

IX. CONTACT BLOCK CONFIGURATION
(RIGHT SIDE)
(USE CHART VIII FROM ABOVE)

contact blocks on one side (left side).





Scenario 2 (continued)

22mm IEC Selector Switches (Non-Illuminated)



Example: To build one of our most popular Selector Switches, the part number would be W22 + II + III + IV + V + VI + VII or W22S3-HW-10/10 *NOTE: Contact block configurations are based on circuit designations (see page 6 for circuit designation charts).

	I. OPERATOR TYPE	
CODE	DESCRIPTION	LIST
W22	Selector Switch	\$10.00

II. OPERATOR FUNCTION		
CODE	POSITION/FUNCTION	LIST
S2	2/Maintained	_
SRL	2/Spring Return, R to L	\$ 2.90
S3	3/Maintained	
SLC	3/Spring Return, L to C	\$ 2.90
SRC	3/Spring Return, R to C	\$ 2.90
SAC	3/Spring Return, L & R to C	\$ 2.90
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III. BEZEL TYPE	
DESCRIPTION	LIST
Black Polyester (Type 4X)	_
Aluminum (Type 4)	\$ 3.00
	DESCRIPTION Black Polyester (Type 4X)

IV. HANDLE TYPE		
CODE	DESCRIPTION	LIST
Н	Standard	\$ 5.10
L	Lever	\$ 5.10

V. HANDLE INSERT COLOR	
CODE	COLOR
В	Blue
G E	Green
E	Grey
R	Red
W	White
Υ	Yellow





VI. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

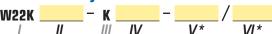
CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	
10	1 Normally Open Contact Block	\$ 8.10
01	1 Normally Closed Contact Block	\$ 8.10
E	1 Early Make Contact Block	\$ 8.10
D	1 Delayed Break Contact Block	\$ 8.10
20	2 Normally Open Contact Blocks	\$16.20
02	2 Normally Closed Contact Blocks	\$16.20
11	1 Normally Open and 1 Normally Closed Contact Blocks	\$16.20

VII. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART VI FROM ABOVE)

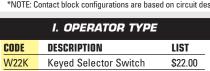
Each operating handle is black with a factory assembled color insert.

22mm IEC Keyed Selector Switches



Example: To build one of our most popular Keyed Selector Switches, the part number would be W22K + II + K + IV + V + VI or W22KS3-KRA-10/10

*NOTE: Contact block configurations are based on circuit designations (see page 6 for circuit designation charts).



	II. OPERATOR F	UNCTION	
CODE	POS./FUNCTION	AVAIL. KEY REMOVAL POSITION(S)	LIST
S2	2/Maintained	RA,RR,RL	\$16.00
SRL	2/Spring Return, R to L	RL	\$18.00
S3	3/Maintained	RA,RL,RR,RC, RLC,RRC	\$19.00
SLC	3/Spring Return, L to C	RC,RR,RRC	\$22.00
SRC	3/Spring Return, R to C	RC,RL,RLC	\$22.00
SAC	3/Spring Return, L&R to C	RC	\$22.00

III. BEZEL/INDICATOR COLOR	
CODE	DESCRIPTION
K	Black Bezel/White Indicator

IV. KEY REMOVAL POSITION		
CODE	REMOVAL POSITION	
RA	All	
RL	Left Only	
RR	Right Only	
RC	Center Only	
RLC	Left & Center Only	
RRC	Right & Center Only	
	·	





V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
10	1 Normally Open Contact Block	\$ 8.10
01	1 Normally Closed Contact Block	\$ 8.10
E	1 Early Make Contact Block	\$ 8.10
D	1 Delayed Break Contact Block	\$ 8.10
20	2 Normally Open Contact Blocks	\$16.20
02	2 Normally Closed Contact Blocks	\$16.20
11	1 Normally Open and 1 Normally Closed Contact Blocks	\$16.20

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)

Have questions? Contact your c3controls support team at customerfirst@c3controls.com.

