30mm Hazardous Location Pilot Devices

How to configure and buy c3controls 30mm 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 30mm 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.

30mm Selector Switches (Non-Illuminated)

	–				–	/	
I		II	III	IV	V*	VI*

Example: To build one of our most popular Selector Switches, the part number would be I + II + III + IV + V + VI or HSSOR3-SHWE-PRNO/PRNO

*NOTE: Contact block configurations are based on circuit designations (see page 3 for circuit designation charts).

I. SELECTOR SWITCH OPERATOR FUNCTION

CODE	POS./FUNCTION	LIST
FACTORY SEALED CONTACT BLOCKS		
HSSO2	2/Maintained	$ 25.00
HSROLR	2/Spring Return, L to R	$ 42.00
HSRORL	2/Spring Return, R to L	$ 42.00
HSSO3	3/Maintained	$ 25.00
HSROLC	3/Spring Return, L to C	$ 42.00
HSRORC	3/Spring Return, R to C	$ 42.00
HSROLRC	3/Spring Return, L & R to C	$ 42.00
HERMETICALLY SEALED REED CONTACT BLOCKS*		
HSSO2	2/Maintained	$ 25.00
HSROLR	2/Spring Return, L to R	$ 42.00
HSRORL	2/Spring Return, R to L	$ 42.00
HSSOR3	3/Maintained	$ 25.00
HSROR3LC	3/Spring Return, L to C	$ 42.00
HSROR3RC	3/Spring Return, R to C	$ 42.00
HSROR3LRC	3/Spring Return, L & R to C	$ 42.00

***NOTE: Remove "H" from code when ordering a Hermetically Sealed Reed in conjunction with a Logic Reed Contact Block.**

II. CLAMP RING

CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	—
A	Aluminum (Type 4)*	$ 4.30

*NOTE: Aluminum clamp rings are NOT corrosion resistant.

III. HANDLE TYPE

CODE	DESCRIPTION	LIST
SH	Standard	$ 9.80
SL	Lever	$ 9.80

IV. HANDLE INSERT COLOR

CODE	COLOR
BE	Blue
GN	Green
GY	Grey
RD	Red
WE	White
YW	Yellow

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

† We recommend that any Normally Closed Logic Reed Contact Block be mounted to the operator before Normally Open Contact Blocks are mounted.

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
FACTORY SEALED, CLASS 1, DIV. 2/ZONE 2, 720 VA		
(Blank)	Operator without Contact Blocks	—
CBFSR	Contact Block with 1 Normally Open/1 Normally Closed	$ 94.00
POWER REED, CLASS 1, DIV. 2/ZONE 2, 360 VA INDUCTIVE		
(Blank)	Operator without Contact Blocks	—
PRNO	1 Normally Open Contact Block	$ 74.00
PRNC	1 Normally Closed Contact Block	$ 74.00
PR2NO	Contact Block w/2 Normally Open	$118.00
PR2NC	Contact Block w/2 Normally Closed	$118.00
PRNONC	Contact Block with 1 Normally Open/1 Normally Closed	$118.00
PRNCS	2 Normally Closed Contact Blocks Wired in Series	$153.00
PRNOP	2 Normally Open Contact Blocks Wired in Parallel	$153.00
MID-POWER REED, CLASS 1, DIV. 2/ZONE 2, 180 VA INDUCTIVE		
(Blank)	Operator without Contact Blocks	—
MPRNO	1 Normally Open Contact Block	$ 59.00
MPRNC	1 Normally Closed Contact Block	$ 59.00
MPR2NO	Contact Block w/2 Normally Open	$102.00
MPR2NC	Contact Block w/2 Normally Closed	$102.00
MPRNONC	Contact Block with 1 Normally Open/1 Normally Closed	$102.00
MPRNCS	2 Normally Closed Contact Blocks Wired in Series	$123.00
MPRNOP	2 Normally Open Contact Blocks Wired in Parallel	$124.00
MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 VA INDUCTIVE, 100 WATTS RESISTIVE†		
(Blank)	Operator without Contact Blocks	—
MLRNO	1 Normally Open Contact Block	$ 35.00
MLRNC	1 Normally Closed Contact Block	$ 35.00
MLR2NO	Contact Block w/2 Normally Open	$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	$ 55.00
MLRNONC	Contact Block with 1 Normally Open/1 Normally Closed	$ 55.00
MLRNCS	2 Normally Closed Contact Blocks Wired in Series	$ 74.00
MLRNOP	2 Normally Open Contact Blocks Wired in Parallel	$ 75.00
LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 WATTS RESISTIVE*†		
(Blank)	Operator without Contact Blocks	—
LRNO	1 Normally Open Contact Block	$ 22.00
LRNC	1 Normally Closed Contact Block	$ 22.00
LRNCS	2 Normally Closed Contact Blocks Wired in Series	$ 47.00
LRNOP	2 Normally Open Contact Blocks Wired in Parallel	$ 48.00

*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw.

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)

DISCOUNT SCHEDULE E

Scenario 1 (*continued*)

Circuit Designation Charts

O = OPEN X = CLOSED

FACTORY SEALED BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES

CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION
A	O X	X O	CBFSR	EITHER

FACTORY SEALED BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES

CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION CENTER	HANDLE POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION
B	X O	O X	O O	CBFSR	LEFT
C	O O	O X	X O	CBFSR	RIGHT

HERMETICALLY SEALED BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES

CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION
D	O	X	PRNO	EITHER
E	X	O	PRNC	EITHER
F	O X	X O	PRNONC	EITHER

HERMETICALLY SEALED REED CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES

CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION CENTER	HANDLE POSITION RIGHT	POWER REED CAT. #	MID-POWER REED CAT. #	MEDIUM REED CAT. #	LOGIC REED CAT. #	MOUNTING POSITION
G	X	O	O	PRNO	MPRNO	MLRNO	LRNO	LEFT
H	O	X	O	PRNCS (PRNC/PRNC)	MPRNCS (MPRNC/MPRNC)	MLRNCS (MLRNC/MLRNC)	LRNCS (LRNC/LRNC)	BOTH WIRED IN SERIES
I	O	O	X	PRNO	MPRNO	MLRNO	LRNO	RIGHT
J	O	X	X	PRNC	MPRNC	MLRNC	LRNC	LEFT
K	X	O	X	PRNOP (PRNO/PRNO)	MPRNOP (MPRNO/MPRNO)	MLRNOP (MLRNO/MLRNO)	LRNOP (LRNO/LRNO)	BOTH WIRED IN PARALLEL
L	X	X	O	PRNC	MPRNC	MLRNC	LRNC	RIGHT

HANDLE POSITIONS

2-POSITION

3-POSITION

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 5, choose the chart that corresponds with the type of contact block desired and 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 page 6, match the c3controls product description and corresponding part number CODE in each of the sections to create your c3controls part number.**

Example:

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

30mm Non-Illuminated Selector Switch, 3-Position, Maintained, Black Polyester Clamp Ring (Type 4X), Standard Handle with White Insert, and 1 Normally Open Hermetically Sealed Power Reed Contact Block (left mounted) and 1 Normally Open Hermetically Sealed Power Reed Contact Block (right mounted).

c3 Part #: HSS0R3-SHWE-PRNO/PRNO

HERMETICALLY SEALED REED CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES

CIRCUIT DESIG.	HANDLE POSITION LEFT	CENTER	RIGHT	POWER REED CAT. #	MOUNTING POSITION
G	X	0	0	PRNO	LEFT
H	0	X	0	PRNCS (PRNC/PRNC)	BOTH WIRED IN SERIES
I	0	0	X	PRNO	RIGHT
J	0	X	X	PRNC	LEFT
K	X	0	X	PRNOP (PRNO/PRNO)	BOTH WIRED IN PARALLEL
L	X	X	0	PRNC	RIGHT

Scenario 2 (*continued*)

Circuit Designation Charts

O = OPEN X = CLOSED

FACTORY SEALED BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES				
CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION
A	O X	X O	CBFSR	EITHER

FACTORY SEALED BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES					
CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION CENTER	HANDLE POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION
B	X O	O X	O O	CBFSR	LEFT
C	O O	O X	X O	CBFSR	RIGHT

HERMETICALLY SEALED BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES				
CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION
D	O	X	PRNO	EITHER
E	X	O	PRNC	EITHER
F	O X	X O	PRNONC	EITHER

HERMETICALLY SEALED REED CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES								
CIRCUIT DESIG.	HANDLE POSITION LEFT	HANDLE POSITION CENTER	HANDLE POSITION RIGHT	POWER REED CAT. #	MID-POWER REED CAT. #	MEDIUM REED CAT. #	LOGIC REED CAT. #	MOUNTING POSITION
G	X	O	O	PRNO	MPRNO	MLRNO	LRNO	LEFT
H	O	X	O	PRNCS (PRNC/PRNC)	MPRNCS (MPRNC/MPRNC)	MLRNCS (MLRNC/MLRNC)	LRNCS (LRNC/LRNC)	BOTH WIRED IN SERIES
I	O	O	X	PRNO	MPRNO	MLRNO	LRNO	RIGHT
J	O	X	X	PRNC	MPRNC	MLRNC	LRNC	LEFT
K	X	O	X	PRNOP (PRNO/PRNO)	MPRNOP (MPRNO/MPRNO)	MLRNOP (MLRNO/MLRNO)	LRNOP (LRNO/LRNO)	BOTH WIRED IN PARALLEL
L	X	X	O	PRNC	MPRNC	MLRNC	LRNC	RIGHT

HANDLE POSITIONS

2-POSITION

3-POSITION

30mm Selector Switches (Non-Illuminated)

_____ – _____ _____ _____ – _____ / _____

I *II* *III* *IV* *V** *VI**

Example: To build one of our most popular Selector Switches, the part number would be I + II + III + IV + V + VI or HSSOR3-SHWE-PRNO/PRNO

*NOTE: Contact block configurations are based on circuit designations (see page 5 for circuit designation charts).

I. SELECTOR SWITCH OPERATOR FUNCTION

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***NOTE: Remove "H" from code when ordering a Hermetically Sealed Reed in conjunction with a Logic Reed Contact Block.**

II. CLAMP RING

CODE	DESCRIPTION	LIST
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A	Aluminum (Type 4)*	$ 4.30

*NOTE: Aluminum clamp rings are NOT corrosion resistant.

III. HANDLE TYPE

CODE	DESCRIPTION	LIST
SH	Standard	$ 9.80
SL	Lever	$ 9.80

IV. HANDLE INSERT COLOR

CODE	COLOR
BE	Blue
GN	Green
GY	Grey
RD	Red
WE	White
YW	Yellow

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

† We recommend that any Normally Closed Logic Reed Contact Block be mounted to the operator before Normally Open Contact Blocks are mounted.

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
FACTORY SEALED, CLASS 1, DIV. 2/ZONE 2, 720 VA		
(Blank)	Operator without Contact Blocks	—
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POWER REED, CLASS 1, DIV. 2/ZONE 2, 360 VA INDUCTIVE		
(Blank)	Operator without Contact Blocks	—
PRNO	1 Normally Open Contact Block	$ 74.00
PRNC	1 Normally Closed Contact Block	$ 74.00
PR2NO	Contact Block w/2 Normally Open	$118.00
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PRNCS	2 Normally Closed Contact Blocks Wired in Series	$153.00
PRNOP	2 Normally Open Contact Blocks Wired in Parallel	$153.00
MID-POWER REED, CLASS 1, DIV. 2/ZONE 2, 180 VA INDUCTIVE		
(Blank)	Operator without Contact Blocks	—
MPRNO	1 Normally Open Contact Block	$ 59.00
MPRNC	1 Normally Closed Contact Block	$ 59.00
MPR2NO	Contact Block w/2 Normally Open	$102.00
MPR2NC	Contact Block w/2 Normally Closed	$102.00
MPRNONC	Contact Block with 1 Normally Open/1 Normally Closed	$102.00
MPRNCS	2 Normally Closed Contact Blocks Wired in Series	$123.00
MPRNOP	2 Normally Open Contact Blocks Wired in Parallel	$124.00
MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 VA INDUCTIVE, 100 WATTS RESISTIVE†		
(Blank)	Operator without Contact Blocks	—
MLRNO	1 Normally Open Contact Block	$ 35.00
MLRNC	1 Normally Closed Contact Block	$ 35.00
MLR2NO	Contact Block w/2 Normally Open	$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	$ 55.00
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MLRNCS	2 Normally Closed Contact Blocks Wired in Series	$ 74.00
MLRNOP	2 Normally Open Contact Blocks Wired in Parallel	$ 75.00
LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 WATTS RESISTIVE*†		
(Blank)	Operator without Contact Blocks	—
LRNO	1 Normally Open Contact Block	$ 22.00
LRNC	1 Normally Closed Contact Block	$ 22.00
LRNCS	2 Normally Closed Contact Blocks Wired in Series	$ 47.00
LRNOP	2 Normally Open Contact Blocks Wired in Parallel	$ 48.00

*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw.

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)

DISCOUNT SCHEDULE **E**

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