



Pushbuttons



Indicating Lights



Emergency Stops



Selector Switches



37.5 22.5 mm Compact Pushbuttons—C22

Product Overview
Product Selection Guide
Pushbuttons—Non-Illuminated and Illuminated
Indicating Lights
Emergency Stops
Selector Switches
Technical Data and Specifications
Dimensions

Note: Supplement to Volume 7—Motor Controls, Logic and Connectivity, Tab 37. For additional accessories, please see section 37.4, 22.5 mm Modular Pushbuttons—M22.









22.5 mm Compact Pushbuttons—C22





Contents

Description	Page
22.5 mm Compact Pushbuttons—C22	
Product Selection Guide	4
Pushbuttons—Non-Illuminated and Illuminated	5
Indicating Lights	14
Emergency Stops	
Selector Switches	19
Technical Data and Specifications	24
Dimensions	26

Product Overview

Product Description

The C22 compact pushbutton line offers an industry leading array of functional, attractive, and ergonomically designed "all-in-one" illuminated and non-illuminated pushbuttons, selector switches, emergency stops and indicating lights. The complete illuminated line is only offered in LED light units to ensure high-quality brightness and up to 100,000 hours of LED illumination. C22 operators are available with either a silver or black bezel and share the exact same front of the panel look and feel as Eaton's M22 line. The C22's compact, "all-in-one" design with the contact block(s) and operators integral provides the user with a simple solution.

Wide Product Breadth

- In addition to the standard compact offering of indicating lights and pushbuttons, Eaton's C22 offers keyed and non-keyed operators and emergency stops
- · Hundreds of styles with standard laser etch markings with the ability to use custom M22 laser etched buttons in conjunction with C22 buttonless operators

LED Indicators

- 100,000 hours of life in high-vibration environments
- Lenses specifically designed for LED illumination

Rugged Design

- Pushbuttons (momentary) rated for 5 million mechanical operations and selector switches (non-keyed) rated for 1 million mechanical operations
- All components have IP65 rating, and some carry IP67 and IP69K for wash-down environment

Standards and Certifications

All operators are IEC/EN 60947 VDE 0660, UL Listed, and CSA Certified.

All operators carry an IP65, IP66, IP67 or IP69K rating.

All products carry ratings of NEMA 1, 3R, 4X, 12 and 13













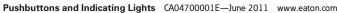


















CA04700001E.book Page 3 Thursday, June 30, 2011 11:04 AM





22.5 mm Compact Pushbuttons—C22

Features

- Field convertible maintained pushbuttons from maintained to momentary
- Field convertible selector switches from momentary to maintained operation and vice versa
- LED offering only for all illuminated operators
- Laser engraved pushbuttons and lenses
- Heavy-duty construction with a minimum of IP65 and UL NEMA® Type 4X/13 on front of panel operators. Many operators even carry IP67 and IP69K, for the toughest applications

- Silver or black colored nylon bezels
- Notched hole mounting with anti-rotation tab and central nut mounting on each operator
- Pushbuttons (momentary) rated for 5 million mechanical operations and selector switches (non-keyed) rated for 1 million mechanical operations
- Unique compact offerings, including keyed and nonkeyed operators and emergency stops

Benefits

- · Compact, "all-in-one" operator and contact block design simplifies product selection, inventory, and installation
- Field convertibility of pushbuttons and selector switches helps distributors and customers reduce inventory and increase functionality
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- · Plastic construction is corrosion resistant

- Operators are designed for rugged environments, ideal for wash-down applications (reference each operator's IP ratings for ingress protection definition)
- Anti-rotation tab saves installation time and prevents operator rotation
- High mechanical and electrical life allows for use in tough and challenging applications
- Laser inscription capabilities allow for high quality, wear-resistant markings
- By having a compact design emergency stop, the C22 design eliminates the need for self-monitoring contact blocks







22.5 mm Compact Pushbuttons—C22

37

Product Selection Guide

Pushbuttons









Description	Non-illuminated,	flush	Non-illuminated,	extended	Illuminated, flush	l	Illuminated, exte	ended
Operator	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained
Product Selection	Page 6	Page 7	Page 8	Page 9	Page 10	Page 11	Page 12	Page 13

Indicating Lights



Description	Indicating lights
Product Selection	Page 15

Emergency Stops





Description	Twist release	Keyed-release
Product Selection	Page 17	Page 17

Selector Switches





Description	Non-illuminated, knob type	Key-operated
Product Selection	Page 20	Page 21





3/.5

22.5 mm Compact Pushbuttons—C22





CONTENIS	
Description	Page
Pushbuttons—Non-Illuminated and Illuminated	
Non-Illuminated, Flush, Momentary	6
Non-Illuminated, Flush, Maintained	7
Non-Illuminated, Extended, Momentary	8
Non-Illuminated, Extended, Maintained	9
Illuminated, Flush, Momentary	10
Illuminated, Flush, Maintained	11
Illuminated, Extended, Momentary	12

Illuminated, Extended, Maintained 13
Indicating Lights 14
Emergency Stops 16
Selector Switches 19
Technical Data and Specifications 24
Dimensions 26

3/

Pushbuttons—Non-Illuminated and Illuminated

Product Description

C22 Compact Pushbuttons are a complete line of monoblock type pushbuttons with the contact blocks, mounting adapter, and operator all-in-one. The C22 pushbuttons offer the same look and feel as their modular counterpart, the M22. They also carry many of the same rugged ratings and options, such as laser etching, field convertibility, and LED technology.

Note: For additional accessories, please see Volume 7—Motor Controls, Logic and Connectivity, CA08100008E, Tab 37, section 37.4, 22.5 mm Modular Pushbuttons—M22.

Features

- Field convertible maintained pushbuttons from maintained to momentary
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Laser engraved pushbuttons and lenses
- Pushbuttons (momentary) rated for 5 million mechanical operations

Protection Type

- IP67/IP69K
- NEMA 4X, 13





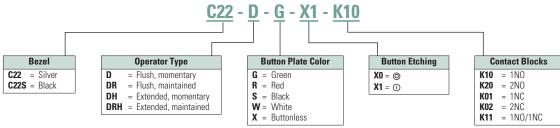
22.5 mm Compact Pushbuttons—C22

37

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Pushbuttons



Product Selection

Non-Illuminated, Flush, Momentary

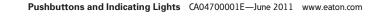
C22(S)-D-_

Non-Illuminated Pushbuttons, Flush, Momentary





Button Color	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	_	1N0	C22-D-G-K10	C22S-D-G-K10
	_	2N0	C22-D-G-K20	C22S-D-G-K20
	_	1NO/1NC	C22-D-G-K11	C22S-D-G-K11
	X1	1N0	C22-D-G-X1-K10	C22S-D-G-X1-K10
	X1	2N0	C22-D-G-X1-K20	C22S-D-G-X1-K20
	X1	1NO/1NC	C22-D-G-X1-K11	C22S-D-G-X1-K11
Red	_	1NC	C22-D-R-K01	C22S-D-R-K01
	_	2NC	C22-D-R-K02	C22S-D-R-K02
	_	1NO/1NC	C22-D-R-K11	C22S-D-R-K11
	X0	1NC	C22-D-R-X0-K01	C22S-D-R-X0-K01
	X0	2NC	C22-D-R-X0-K02	C22S-D-R-X0-K02
	X0	1NO/1NC	C22-D-R-X0-K11	C22S-D-R-X0-K11
Black	_	1NC	C22-D-S-K01	C22S-D-S-K01
	_	2NC	C22-D-S-K02	C22S-D-S-K02
	_	1NO/1NC	C22-D-S-K11	C22S-D-S-K11
	X0	1NC	C22-D-S-X0-K01	C22S-D-S-X0-K01
	X0	2NC	C22-D-S-X0-K02	C22S-D-S-X0-K02
	X0	1NO/1NC	C22-D-S-X0-K11	C22S-D-S-X0-K11
White	_	1N0	C22-D-W-K10	C22S-D-W-K10
	_	2N0	C22-D-W-K20	C22S-D-W-K20
	_	1NO/1NC	C22-D-W-K11	C22S-D-W-K11
	X1	1N0	C22-D-W-X1-K10	C22S-D-W-X1-K10
	X1	2N0	C22-D-W-X1-K20	C22S-D-W-X1-K20
	X1	1NO/1NC	C22-D-W-X1-K11	C22S-D-W-X1-K11
Buttonless	_	1N0	C22-D-X-K10	C22S-D-X-K10
	_	2N0	C22-D-X-K20	C22S-D-X-K20
	_	1NC	C22-D-X-K01	C22S-D-X-K01
	_	2NC	C22-D-X-K02	C22S-D-X-K02
		1NO/1NC	C22-D-X-K11	C22S-D-X-K11







22.5 mm Compact Pushbuttons—C22

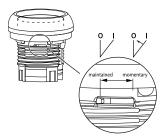
Non-Illuminated, Flush, Maintained

Non-Illuminated Pushbuttons, Flush, Maintained



0	

	Black Bezel Catalog Numbe	Silver Bezel Catalog Number	Contact Block Configuration	Button Etching	Button Color
G-K10	C22S-DR-G-K10	C22-DR-G-K10	1N0	_	Green
G-K20	C22S-DR-G-K20	C22-DR-G-K20	2N0	_	
G-K11	C22S-DR-G-K11	C22-DR-G-K11	1NO/1NC	_	
G-X1-K10	C22S-DR-G-X1-	C22-DR-G-X1-K10	1NO	X1	
G-X1-K20	C22S-DR-G-X1-	C22-DR-G-X1-K20	2N0	X1	
G-X1-K11	C22S-DR-G-X1-	C22-DR-G-X1-K11	1NO/1NC	X1	
R-K01	C22S-DR-R-K01	C22-DR-R-K01	1NC	_	Red
R-K02	C22S-DR-R-K02	C22-DR-R-K02	2NC	_	
R-K11	C22S-DR-R-K11	C22-DR-R-K11	1NO/1NC	_	
R-X0-K01	C22S-DR-R-X0-I	C22-DR-R-X0-K01	1NC	X0	
R-X0-K02	C22S-DR-R-X0-I	C22-DR-R-X0-K02	2NC	X0	
R-X0-K11	C22S-DR-R-X0-I	C22-DR-R-X0-K11	1NO/1NC	X0	
S-K01	C22S-DR-S-K01	C22-DR-S-K01	1NC	_	Black
S-K02	C22S-DR-S-K02	C22-DR-S-K02	2NC	_	
S-K11	C22S-DR-S-K11	C22-DR-S-K11	1NO/1NC	_	
S-X0-K01	C22S-DR-S-X0-I	C22-DR-S-X0-K01	1NC	X0	
S-X0-K02	C22S-DR-S-X0-I	C22-DR-S-X0-K02	2NC	X0	
S-X0-K11	C22S-DR-S-X0-I	C22-DR-S-X0-K11	1NO/1NC	X0	
W-K10	C22S-DR-W-K10	C22-DR-W-K10	1N0	_	White
W-K20	C22S-DR-W-K20	C22-DR-W-K20	2N0	_	
W-K11	C22S-DR-W-K11	C22-DR-W-K11	1NO/1NC	_	
W-X1-K10	C22S-DR-W-X1-	C22-DR-W-X1-K10	1N0	X1	
W-X1-K20	C22S-DR-W-X1-	C22-DR-W-X1-K20	2N0	X1	
W-X1-K11	C22S-DR-W-X1-	C22-DR-W-X1-K11	1NO/1NC	X1	
X-K10	C22S-DR-X-K10	C22-DR-X-K10	1N0	_	Buttonless
X-K20	C22S-DR-X-K20	C22-DR-X-K20	2N0	_	
X-K01	C22S-DR-X-K01	C22-DR-X-K01	1NC		
X-K02	C22S-DR-X-K02	C22-DR-X-K02	2NC		
X-K11	C22S-DR-X-K11	C22-DR-X-K11	1NO/1NC		
)	C22S-DR-) C22S-DR-) C22S-DR-)	C22-DR-X-K20 C22-DR-X-K01 C22-DR-X-K02	2NO 1NC 2NC	- - - - -	Buttonless



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.





37.5

Pushbuttons and Indicating Lights

22.5 mm Compact Pushbuttons—C22

37

Non-Illuminated, Extended, Momentary

22(S)-DH-

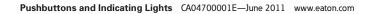
Non-Illuminated Pushbuttons, Extended, Momentary



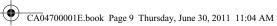
Button Color	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	_	1N0	C22-DH-G-K10	C22S-DH-G-K10
	_	2N0	C22-DH-G-K20	C22S-DH-G-K20
	_	1NO/1NC	C22-DH-G-K11	C22S-DH-G-K11
	X1	1N0	C22-DH-G-X1-K10	C22S-DH-G-X1-K10
	X1	2N0	C22-DH-G-X1-K20	C22S-DH-G-X1-K20
	X1	1NO/1NC	C22-DH-G-X1-K11	C22S-DH-G-X1-K11
Red	_	1NC	C22-DH-R-K01	C22S-DH-R-K01
	_	2NC	C22-DH-R-K02	C22S-DH-R-K02
	_	1NO/1NC	C22-DH-R-K11	C22S-DH-R-K11
	X0	1NC	C22-DH-R-X0-K01	C22S-DH-R-X0-K01
	X0	2NC	C22-DH-R-X0-K02	C22S-DH-R-X0-K02
	X0	1NO/1NC	C22-DH-R-X0-K11	C22S-DH-R-X0-K11
Black	_	1NC	C22-DH-S-K01	C22S-DH-S-K01
	_	2NC	C22-DH-S-K02	C22S-DH-S-K02
	_	1NO/1NC	C22-DH-S-K11	C22S-DH-S-K11
	X0	1NC	C22-DH-S-X0-K01	C22S-DH-S-X0-K01
	XO	2NC	C22-DH-S-X0-K02	C22S-DH-S-X0-K02
	X0	1NO/1NC	C22-DH-S-X0-K11	C22S-DH-S-X0-K11
White	_	1N0	C22-DH-W-K10	C22S-DH-W-K10
	_	2N0	C22-DH-W-K20	C22S-DH-W-K20
	_	1NO/1NC	C22-DH-W-K11	C22S-DH-W-K11
	X1	1N0	C22-DH-W-X1-K10	C22S-DH-W-X1-K10
	X1	2N0	C22-DH-W-X1-K20	C22S-DH-W-X1-K20
	X1	1NO/1NC	C22-DH-W-X1-K11	C22S-DH-W-X1-K11













22.5 mm Compact Pushbuttons—C22



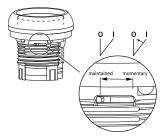
Non-Illuminated, Extended, Maintained

Non-Illuminated Pushbuttons, Extended, Maintained





Button Color	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	_	1N0	C22-DRH-G-K10	C22S-DRH-G-K10
	_	2N0	C22-DRH-G-K20	C22S-DRH-G-K20
	_	1NO/1NC	C22-DRH-G-K11	C22S-DRH-G-K11
	X1	1N0	C22-DRH-G-X1-K10	C22S-DRH-G-X1-K10
	X1	2N0	C22-DRH-G-X1-K20	C22S-DRH-G-X1-K20
	X1	1NO/1NC	C22-DRH-G-X1-K11	C22S-DRH-G-X1-K11
Red	_	1NC	C22-DRH-R-K01	C22S-DRH-R-K01
		2NC	C22-DRH-R-K02	C22S-DRH-R-K02
	_	1NO/1NC	C22-DRH-R-K11	C22S-DRH-R-K11
	XO	1NC	C22-DRH-R-X0-K01	C22S-DRH-R-X0-K01
	XO	2NC	C22-DRH-R-X0-K02	C22S-DRH-R-X0-K02
	XO	1NO/1NC	C22-DRH-R-X0-K11	C22S-DRH-R-X0-K11
Black	_	1NC	C22-DRH-S-K01	C22S-DRH-S-K01
		2NC	C22-DRH-S-K02	C22S-DRH-S-K02
	_	1NO/1NC	C22-DRH-S-K11	C22S-DRH-S-K11
	XO	1NC	C22-DRH-S-X0-K01	C22S-DRH-S-X0-K01
	XO	2NC	C22-DRH-S-X0-K02	C22S-DRH-S-X0-K02
	XO	1NO/1NC	C22-DRH-S-X0-K11	C22S-DRH-S-X0-K11
White	_	1N0	C22-DRH-W-K10	C22S-DRH-W-K10
	_	2N0	C22-DRH-W-K20	C22S-DRH-W-K20
	_	1NO/1NC	C22-DRH-W-K11	C22S-DRH-W-K11
	X1	1N0	C22-DRH-W-X1-K10	C22S-DRH-W-X1-K10
	X1	2N0	C22-DRH-W-X1-K20	C22S-DRH-W-X1-K20
	X1	1NO/1NC	C22-DRH-W-X1-K11	C22S-DRH-W-X1-K11



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.





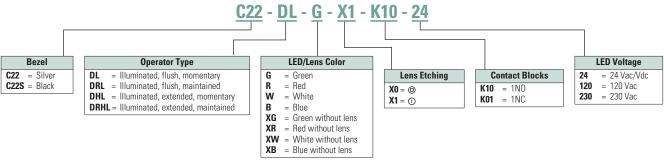
22.5 mm Compact Pushbuttons—C22

37

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Illuminated Pushbuttons



Product Selection

Illuminated, Flush, Momentary

C22(S)-DL-_

Illuminated Pushbuttons, Flush, Momentary





LED Color	Button Color	Voltage	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	_	1N0	C22-DL-G-K10-24	C22S-DL-G-K10-24
		120 Vac	_	1N0	C22-DL-G-K10-120	C22S-DL-G-K10-120
		230 Vac	_	1N0	C22-DL-G-K10-230	C22S-DL-G-K10-230
		24 Vac/Vdc	X1	1N0	C22-DL-G-X1-K10-24	C22S-DL-G-X1-K10-24
		120 Vac	X1	1N0	C22-DL-G-X1-K10-120	C22S-DL-G-X1-K10-120
		230 Vac	X1	1N0	C22-DL-G-X1-K10-230	C22S-DL-G-X1-K10-230
	Buttonless	24 Vac/Vdc	_	1N0	C22-DL-XG-K10-24	C22S-DL-XG-K10-24
		120 Vac	_	1N0	C22-DL-XG-K10-120	C22S-DL-XG-K10-120
		230 Vac	_	1N0	C22-DL-XG-K10-230	C22S-DL-XG-K10-230
led	Red	24 Vac/Vdc	_	1NC	C22-DL-R-K01-24	C22S-DL-R-K01-24
		120 Vac	_	1NC	C22-DL-R-K01-120	C22S-DL-R-K01-120
		230 Vac	_	1NC	C22-DL-R-K01-230	C22S-DL-R-K01-230
		24 Vac/Vdc	X0	1NC	C22-DL-R-X0-K01-24	C22S-DL-R-X0-K01-24
		120 Vac	X0	1NC	C22-DL-R-X0-K01-120	C22S-DL-R-X0-K01-120
		230 Vac	X0	1NC	C22-DL-R-X0-K01-230	C22S-DL-R-X0-K01-230
	Buttonless	24 Vac/Vdc	_	1NC	C22-DL-XR-K01-24	C22S-DL-XR-K01-24
		120 Vac	_	1NC	C22-DL-XR-K01-120	C22S-DL-XR-K01-120
		230 Vac	_	1NC	C22-DL-XR-K01-230	C22S-DL-XR-K01-230
White	White	24 Vac/Vdc	_	1N0	C22-DL-W-K10-24	C22S-DL-W-K10-24
		120 Vac	_	1N0	C22-DL-W-K10-120	C22S-DL-W-K10-120
		230 Vac	_	1N0	C22-DL-W-K10-230	C22S-DL-W-K10-230
		24 Vac/Vdc	X1	1N0	C22-DL-W-X1-K10-24	C22S-DL-W-X1-K10-24
		120 Vac	X1	1N0	C22-DL-W-X1-K10-120	C22S-DL-W-X1-K10-120
		230 Vac	X1	1N0	C22-DL-W-X1-K10-230	C22S-DL-W-X1-K10-230
	Buttonless	24 Vac/Vdc	_	1N0	C22-DL-XW-K10-24	C22S-DL-XW-K10-24
		120 Vac	_	1N0	C22-DL-XW-K10-120	C22S-DL-XW-K10-120
		230 Vac	_	1N0	C22-DL-XW-K10-230	C22S-DL-XW-K10-230
lue	Blue	24 Vac/Vdc	_	1N0	C22-DL-B-K10-24	C22S-DL-B-K10-24
		120 Vac	_	1N0	C22-DL-B-K10-120	C22S-DL-B-K10-120
		230 Vac	_	1N0	C22-DL-B-K10-230	C22S-DL-B-K10-230
	Buttonless	24 Vac/Vdc	_	1N0	C22-DL-XB-K10-24	C22S-DL-XB-K10-24
		120 Vac	_	1N0	C22-DL-XB-K10-120	C22S-DL-XB-K10-120
		230 Vac	_	1N0	C22-DL-XB-K10-230	C22S-DL-XB-K10-230













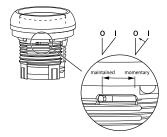
22.5 mm Compact Pushbuttons—C22

Illuminated, Flush, Maintained

Illuminated Pushbuttons, Flush, Maintained



LED Color	Button Color	Voltage	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	1NO	C22-DRL-G-K10-24	C22S-DRL-G-K10-24
		120 Vac	1NO	C22-DRL-G-K10-120	C22S-DRL-G-K10-120
		230 Vac	1NO	C22-DRL-G-K10-230	C22S-DRL-G-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22-DRL-XG-K10-24	C22S-DRL-XG-K10-24
		120 Vac	1NO	C22-DRL-XG-K10-120	C22S-DRL-XG-K10-120
		230 Vac	1NO	C22-DRL-XG-K10-230	C22S-DRL-XG-K10-230
Red	Red	24 Vac/Vdc	1NC	C22-DRL-R-K01-24	C22S-DRL-R-K01-24
		120 Vac	1NC	C22-DRL-R-K01-120	C22S-DRL-R-K01-120
		230 Vac	1NC	C22-DRL-R-K01-230	C22S-DRL-R-K01-230
	Buttonless	24 Vac/Vdc	1NC	C22-DRL-XR-K01-24	C22S-DRL-XR-K01-24
		120 Vac	1NC	C22-DRL-XR-K01-120	C22S-DRL-XR-K01-120
		230 Vac	1NC	C22-DRL-XR-K01-230	C22S-DRL-XR-K01-230
White	White	24 Vac/Vdc	1NO	C22-DRL-W-K10-24	C22S-DRL-W-K10-24
		120 Vac	1NO	C22-DRL-W-K10-120	C22S-DRL-W-K10-120
		230 Vac	1NO	C22-DRL-W-K10-230	C22S-DRL-W-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22-DRL-XW-K10-24	C22S-DRL-XW-K10-24
		120 Vac	1NO	C22-DRL-XW-K10-120	C22S-DRL-XW-K10-120
		230 Vac	1NO	C22-DRL-XW-K10-230	C22S-DRL-XW-K10-230
Blue	Blue	24 Vac/Vdc	1NO	C22-DRL-B-K10-24	C22S-DRL-B-K10-24
		120 Vac	1NO	C22-DRL-B-K10-120	C22S-DRL-B-K10-120
		230 Vac	1N0	C22-DRL-B-K10-230	C22S-DRL-B-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22-DRL-XB-K10-24	C22S-DRL-XB-K10-24
		120 Vac	1N0	C22-DRL-XB-K10-120	C22S-DRL-XB-K10-120
		230 Vac	1NO	C22-DRL-XB-K10-230	C22S-DRL-XB-K10-230



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.









22.5 mm Compact Pushbuttons—C22

37

Illuminated, Extended, Momentary



LED Color	Button Color	Voltage	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	_	1N0	C22-DLH-G-K10-24	C22S-DLH-G-K10-24
		120 Vac	_	1N0	C22-DLH-G-K10-120	C22S-DLH-G-K10-120
		230 Vac	_	1N0	C22-DLH-G-K10-230	C22S-DLH-G-K10-230
		24 Vac/Vdc	X1	1N0	C22-DLH-G-X1-K10-24	C22S-DLH-G-X1-K10-24
		120 Vac	X1	1N0	C22-DLH-G-X1-K10-120	C22S-DLH-G-X1-K10-12
		230 Vac	X1	1N0	C22-DLH-G-X1-K10-230	C22S-DLH-G-X1-K10-23
Red	Red	24 Vac/Vdc	_	1NC	C22-DLH-R-K01-24	C22S-DLH-R-K01-24
		120 Vac	_	1NC	C22-DLH-R-K01-120	C22S-DLH-R-K01-120
		230 Vac	_	1NC	C22-DLH-R-K01-230	C22S-DLH-R-K01-230
		24 Vac/Vdc	X0	1NC	C22-DLH-R-X0-K01-24	C22S-DLH-R-X0-K01-24
		120 Vac	X0	1NC	C22-DLH-R-X0-K01-120	C22S-DLH-R-X0-K01-12
		230 Vac	X0	1NC	C22-DLH-R-X0-K01-230	C22S-DLH-R-X0-K01-23
White	White	24 Vac/Vdc	_	1NO	C22-DLH-W-K10-24	C22S-DLH-W-K10-24
		120 Vac	_	1NO	C22-DLH-W-K10-120	C22S-DLH-W-K10-120
		230 Vac	_	1NO	C22-DLH-W-K10-230	C22S-DLH-W-K10-230
		24 Vac/Vdc	X1	1NO	C22-DLH-W-X1-K10-24	C22S-DLH-W-X1-K10-24
		120 Vac	X1	1N0	C22-DLH-W-X1-K10-120	C22S-DLH-W-X1-K10-12
		230 Vac	X1	1N0	C22-DLH-W-X1-K10-230	C22S-DLH-W-X1-K10-23
Blue	Blue	24 Vac/Vdc	_	1N0	C22-DLH-B-K10-24	C22S-DLH-B-K10-24
		120 Vac	_	1N0	C22-DLH-B-K10-120	C22S-DLH-B-K10-120
		230 Vac	_	1N0	C22-DLH-B-K10-230	C22S-DLH-B-K10-230













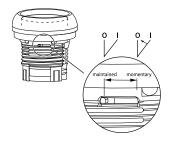
Pushbuttons and Indicating Lights 22.5 mm Compact Pushbuttons—C22

Illuminated, Extended, Maintained

Illuminated Pushbuttons, Flush, Maintained



LED Color	Button Color	Voltage	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	_	1N0	C22-DRLH-G-K10-24	C22S-DRLH-G-K10-24
		120 Vac	_	1N0	C22-DRLH-G-K10-120	C22S-DRLH-G-K10-120
		230 Vac	_	1N0	C22-DRLH-G-K10-230	C22S-DRLH-G-K10-230
		24 Vac/Vdc	X1	1N0	C22-DRLH-G-X1-K10-24	C22S-DRLH-G-X1-K10-24
		120 Vac	X1	1N0	C22-DRLH-G-X1-K10-120	C22S-DRLH-G-X1-K10-120
		230 Vac	X1	1N0	C22-DRLH-G-X1-K10-230	C22S-DRLH-G-X1-K10-230
Red	Red	24 Vac/Vdc	_	1NC	C22-DRLH-R-K01-24	C22S-DRLH-R-K01-24
		120 Vac	_	1NC	C22-DRLH-R-K01-120	C22S-DRLH-R-K01-120
		230 Vac	_	1NC	C22-DRLH-R-K01-230	C22S-DRLH-R-K01-230
		24 Vac/Vdc	X0	1NC	C22-DRLH-R-X0-K01-24	C22S-DRLH-R-X0-K01-24
		120 Vac	X0	1NC	C22-DRLH-R-X0-K01-120	C22S-DRLH-R-X0-K01-120
		230 Vac	X0	1NC	C22-DRLH-R-X0-K01-230	C22S-DRLH-R-X0-K01-230
White	White	24 Vac/Vdc	_	1N0	C22-DRLH-W-K10-24	C22S-DRLH-W-K10-24
		120 Vac	_	1N0	C22-DRLH-W-K10-120	C22S-DRLH-W-K10-120
		230 Vac	_	1N0	C22-DRLH-W-K10-230	C22S-DRLH-W-K10-230
		24 Vac/Vdc	X1	1N0	C22-DRLH-W-X1-K10-24	C22S-DRLH-W-X1-K10-24
		120 Vac	X1	1N0	C22-DRLH-W-X1-K10-120	C22S-DRLH-W-X1-K10-120
		230 Vac	X1	1N0	C22-DRLH-W-X1-K10-230	C22S-DRLH-W-X1-K10-230
Blue	Blue	24 Vac/Vdc	_	1N0	C22-DRLH-B-K10-24	C22S-DRLH-B-K10-24
		120 Vac	_	1N0	C22-DRLH-B-K10-120	C22S-DRLH-B-K10-120
		230 Vac	_	1N0	C22-DRLH-B-K10-230	C22S-DRLH-B-K10-230



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.









22.5 mm Compact Pushbuttons—C22



37

Indicating Lights



Contents

Description	Page
Pushbuttons—Non-Illuminated and Illuminated	5
Indicating Lights	
Catalog Number Selection	15
Product Selection	15
Emergency Stops	16
Selector Switches	19
Technical Data and Specifications	24
Dimensions	26

Indicating Lights

Product Description

C22 indicating lights use a combination of a durable, bright LED unit and modern lenses designed specifically for this type of LED to create a bright and visible indicating light. As with the pushbuttons, the indicating light lenses can be laser etched, simply order without lens and order M22/C22 custom etched lenses to attach.

Note: For additional accessories, please see Volume 7—Motor Controls, Logic and Connectivity, CA08100008E, Tab 37, section 37.4, 22.5 mm Modular Pushbuttons—M22.

Features

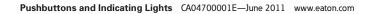
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Lenses specifically designed for LED illumination
- Lenses capable of being laser etched for custom solutions that last

Protection Type

- IP67/IP69K
- NEMA 4X, 13









22.5 mm Compact Pushbuttons—C22

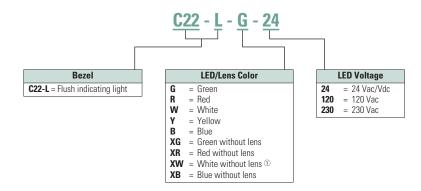




Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Indicating Lights



Product Selection

Indicating Lights

C22-L-_

Indicating Lights



Lens Color	LED Color	Voltage	Catalog Number
Green	Green	24 Vac/Vdc	C22-L-G-24
		120 Vac	C22-L-G-120
		230 Vac	C22-L-G-230
Red	Red	24 Vac/Vdc	C22-L-R-24
		120 Vac	C22-L-R-120
		230 Vac	C22-L-R-230
White	White	24 Vac/Vdc	C22-L-W-24
		120 Vac	C22-L-W-120
		230 Vac	C22-L-W-230
Yellow	White	24 Vac/Vdc	C22-L-Y-24
		120 Vac	C22-L-Y-120
		230 Vac	C22-L-Y-230
Blue	Blue	24 Vac/Vdc	C22-L-B-24
		120 Vac	C22-L-B-120
		230 Vac	C22-L-B-230
Without Lens	Green	24 Vac/Vdc	C22-L-XG-24
		120 Vac	C22-L-XG-120
		230 Vac	C22-L-XG-230
	Red	24 Vac/Vdc	C22-L-XR-24
		120 Vac	C22-L-XR-120
		230 Vac	C22-L-XR-230
	White	24 Vac/Vdc	C22-L-XW-24
		120 Vac	C22-L-XW-120
		230 Vac	C22-L-XW-230
	Blue	24 Vac/Vdc	C22-L-XB-24
		120 Vac	C22-L-XB-120
		230 Vac	C22-L-XB-230







 $^{^{\}scriptsize\textcircled{1}}$ Use white LED for both white and yellow lenses.

22.5 mm Compact Pushbuttons—C22





Contents

Description	Page
Pushbuttons—Non-Illuminated and Illuminated	. 5
Indicating Lights	. 14
Emergency Stops	
Non-Illuminated, Twist-Release	. 17
Non-Illuminated, Keyed-Release	. 17
Selector Switches	. 19
Technical Data and Specifications	. 24
Dimensions	26

Emergency Stops

Product Description

C22 emergency stops are a durable and reliable solution to a variety of e-stop applications. This compact e-stop, available as twist-torelease and keyed-release, is a simple product that eliminates the need for self-monitoring contact blocks, all while still meeting almost all of the industry safety standards.

Note: For additional accessories, please see Volume 7—Motor CA08100008E, Tab 37, section 37.4, 22.5 mm Modular Pushbuttons—M22.

Features

• Available in both twistrelease and keyed-release with either 45 mm or 60 mm operators

Protection Type

- Twist-Release
 - IP67/IP69K
- Keyed-Release
- IP66
- NEMA 4X, 13









22.5 mm Compact Pushbuttons—C22

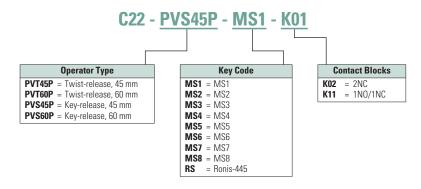
37.5



Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Emergency Stops



Product Selection

Non-Illuminated, Twist-Release

C22-PVT_

Non-Illuminated Emergency Stops, Twist-Release



Release Method	Operator Size	Configuration	Catalog Number
Twist-release	45 mm	2NC	C22-PVT45P-K02
		1NO/1NC	C22-PVT45P-K11
	60 mm	2NC	C22-PVT60P-K02
		1NO/1NC	C22-PVT60P-K11

Contact Block

Non-Illuminated, Keyed-Release

C22-PVS_

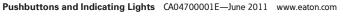
Non-Illuminated Emergency Stops, Keyed-Release



Release Method	Operator Size	Key Code	Configuration	Catalog Number
Keyed-release	45 mm	MS1	2NC	C22-PVS45P-MS1-K02
			1NO/1NC	C22-PVS45P-MS1-K11
		MS2	2NC	C22-PVS45P-MS2-K02
			1NO/1NC	C22-PVS45P-MS2-K11
		MS3	2NC	C22-PVS45P-MS3-K02
			1NO/1NC	C22-PVS45P-MS3-K11
		MS4	2NC	C22-PVS45P-MS4-K02
			1NO/1NC	C22-PVS45P-MS4-K11
		MS5	2NC	C22-PVS45P-MS5-K02
			1NO/1NC	C22-PVS45P-MS5-K11
		MS6	2NC	C22-PVS45P-MS6-K02
			1NO/1NC	C22-PVS45P-MS6-K11
		MS7	2NC	C22-PVS45P-MS7-K02
			1NO/1NC	C22-PVS45P-MS7-K11
		MS8	2NC	C22-PVS45P-MS8-K02
			1NO/1NC	C22-PVS45P-MS8-K11
		Ronis	2NC	C22-PVS45P-RS-K02
			1NO/1NC	C22-PVS45P-RS-K11











22.5 mm Compact Pushbuttons—C22

37

C22-PVS_

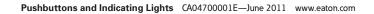
Non-Illuminated Emergency Stops, Keyed-Release, continued



Release Method	Operator Size	Key Code	Contact Block Configuration	Catalog Number
Keyed-release	60 mm	MS1	2NC	C22-PVS60P-MS1-K02
			1NO/1NC	C22-PVS60P-MS1-K11
		MS2	2NC	C22-PVS60P-MS2-K02
			1NO/1NC	C22-PVS60P-MS2-K11
		MS3	2NC	C22-PVS60P-MS3-K02
			1NO/1NC	C22-PVS60P-MS3-K11
		MS4	2NC	C22-PVS60P-MS4-K02
			1NO/1NC	C22-PVS60P-MS4-K11
		MS5	2NC	C22-PVS60P-MS5-K02
			1NO/1NC	C22-PVS60P-MS5-K11
		MS6	2NC	C22-PVS60P-MS6-K02
			1NO/1NC	C22-PVS60P-MS6-K11
		MS7	2NC	C22-PVS60P-MS7-K02
			1NO/1NC	C22-PVS60P-MS7-K11
		MS8	2NC	C22-PVS60P-MS8-K02
			1NO/1NC	C22-PVS60P-MS8-K11
		Ronis	2NC	C22-PVS60P-RS-K02
			1NO/1NC	C22-PVS60P-RS-K11



















Contents

Description	Page
Pushbuttons—Non-Illuminated and Illuminated	. 5
ndicating Lights	. 14
mergency Stops	. 16
Selector Switches	
Non-Illuminated, Knob Type	. 20
Non-Illuminated, Key Operated	. 21
echnical Data and Specifications	. 24
Dimensions	. 26

Selector Switches

Product Description

With over 20 variations of operation and 8 varieties of key codes, the C22 line offers a very complete line of selector switches.

Note: For additional accessories, please see Volume 7—Motor Controls, Logic and Connectivity, CA08100008E, Tab 37, section 37.4, 22.5 mm Modular Pushbuttons—M22.

Features

- Selector switch (nonkeyed) rated for 1 million mechanical operations
- Momentary selector switches are field convertible from momentary to maintained

Protection Type

- IP65
- NEMA 4X, 13







37.5

Pushbuttons and Indicating Lights

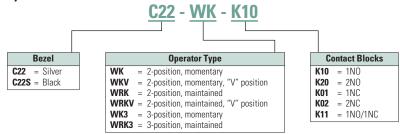
22.5 mm Compact Pushbuttons—C22

37

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Selector Switches—Non-Keyed



Product Selection

Non-Illuminated, Knob Type

C22(S)-WK-_/ C22(S)-WRK_

Non-Illuminated Selector Switches, Knob Type





Гуре	Switching Position	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Two-position	Momentary	1N0	C22-WK-K10	C22S-WK-K10
	40°	2N0	C22-WK-K20	C22S-WK-K20
		1NC	C22-WK-K01	C22S-WK-K01
	,	2NC	C22-WK-K02	C22S-WK-K02
		1NO/1NC	C22-WK-K11	C22S-WK-K11
	Momentary	1N0	C22-WKV-K10	C22S-WKV-K10
	> 60°	2N0	C22-WKV-K20	C22S-WKV-K20
		1NC	C22-WKV-K01	C22S-WKV-K01
		2NC	C22-WKV-K02	C22S-WKV-K02
		1NO/1NC	C22-WKV-K11	C22S-WKV-K11
	Maintained	1N0	C22-WRK-K10	C22S-WRK-K10
	40°	2N0	C22-WRK-K20	C22S-WRK-K20
		1NC	C22-WRK-K01	C22S-WRK-K01
	,	2NC	C22-WRK-K02	C22S-WRK-K02
		1NO/1NC	C22-WRK-K11	C22S-WRK-K11
	Maintained	1N0	C22-WRKV-K10	C22S-WRKV-K10
	√ 60°	2N0	C22-WRKV-K20	C22S-WRKV-K20
	V	1NC	C22-WRKV-K01	C22S-WRKV-K01
		2NC	C22-WRKV-K02	C22S-WRKV-K02
		1NO/1NC	C22-WRKV-K11	C22S-WRKV-K11
hree-position	Momentary	2N0	C22-WK3-K20	C22S-WK3-K20
	^{40°} , → ^{40°}	2NC	C22-WK3-K02	C22S-WK3-K02
	\bigvee	1NO/1NC	C22-WK3-K11	C22S-WK3-K11
	Maintained	2N0	C22-WRK3-K20	C22S-WRK3-K20
	60° 60°	2NC	C22-WRK3-K02	C22S-WRK3-K02
	\checkmark	1NO/1NC	C22-WRK3-K11	C22S-WRK3-K11





CA04700001E.book Page 21 Thursday, June 30, 2011 11:04 AM

Pushbuttons and Indicating Lights

22.5 mm Compact Pushbuttons—C22

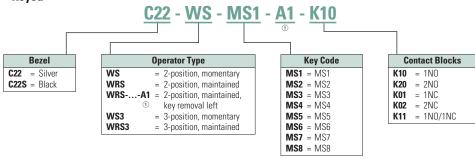




Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Selector Switches—Keyed



Non-Illuminated, Key Operated

C22(S)-WS-MS_

Non-Illuminated Selector Switches, Key Operated





Position Type		Key Code	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number	
Two-position	Momentary	MS1	1NO	C22-WS-MS1-K10	C22S-WS-MS1-K10	
	key removal left		2N0	C22-WS-MS1-K20	C22S-WS-MS1-K20	
	40°		1NC	C22-WS-MS1-K01	C22S-WS-MS1-K01	
			2NC	C22-WS-MS1-K02	C22S-WS-MS1-K02	
			1NO/1NC	C22-WS-MS1-K11	C22S-WS-MS1-K11	
		MS2	1N0	C22-WS-MS2-K10	C22S-WS-MS2-K10	
			2N0	C22-WS-MS2-K20	C22S-WS-MS2-K20	
			1NC	C22-WS-MS2-K01	C22S-WS-MS2-K01	
			2NC	C22-WS-MS2-K02	C22S-WS-MS2-K02	
			1NO/1NC	C22-WS-MS2-K11	C22S-WS-MS2-K11	
		MS3	1N0	C22-WS-MS3-K10	C22S-WS-MS3-K10	
			2N0	C22-WS-MS3-K20	C22S-WS-MS3-K20	
			1NC	C22-WS-MS3-K01	C22S-WS-MS3-K01	
			2NC	C22-WS-MS3-K02	C22S-WS-MS3-K02	
			1NO/1NC	C22-WS-MS3-K11	C22S-WS-MS3-K11	
		MS4	1N0	C22-WS-MS4-K10	C22S-WS-MS4-K10	
			2N0	C22-WS-MS4-K20	C22S-WS-MS4-K20	
			1NC	C22-WS-MS4-K01	C22S-WS-MS4-K01	
			2NC	C22-WS-MS4-K02	C22S-WS-MS4-K02	
			1NO/1NC	C22-WS-MS4-K11	C22S-WS-MS4-K11	
		MS5	1N0	C22-WS-MS5-K10	C22S-WS-MS5-K10	
			2N0	C22-WS-MS5-K20	C22S-WS-MS5-K20	
			1NC	C22-WS-MS5-K01	C22S-WS-MS5-K01	
			2NC	C22-WS-MS5-K02	C22S-WS-MS5-K02	
			1NO/1NC	C22-WS-MS5-K11	C22S-WS-MS5-K11	









22.5 mm Compact Pushbuttons—C22

37

22(S)-WRS-MS_







osition Type		Key Code	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number	
Two-position, continued	Momentary	MS6	1N0	C22-WS-MS6-K10	C22S-WS-MS6-K10	
	key removal left		2N0	C22-WS-MS6-K20	C22S-WS-MS6-K20	
	\ \ \ \ \ \		1NC	C22-WS-MS6-K01	C22S-WS-MS6-K01	
			2NC	C22-WS-MS6-K02	C22S-WS-MS6-K02	
			1NO/1NC	C22-WS-MS6-K11	C22S-WS-MS6-K11	
		MS7	1N0	C22-WS-MS7-K10	C22S-WS-MS7-K10	
			2N0	C22-WS-MS7-K20	C22S-WS-MS7-K20	
			1NC	1NC C22-WS-MS7-K01		
			2NC	C22-WS-MS7-K02	C22S-WS-MS7-K02	
			1NO/1NC	C22-WS-MS7-K11	C22S-WS-MS7-K11	
		MS8	1N0	C22-WS-MS8-K10	C22S-WS-MS8-K10	
			2N0	C22-WS-MS8-K20	C22S-WS-MS8-K20	
			1NC	C22-WS-MS8-K01	C22S-WS-MS8-K01	
			2NC	C22-WS-MS8-K02	C22S-WS-MS8-K02	
			1NO/1NC	C22-WS-MS8-K11	C22S-WS-MS8-K11	
Two-position	Maintained	MS1	1N0	C22-WRS-MS1-K10	C22S-WRS-MS1-K10	
	key removal left/right		2N0	C22-WRS-MS1-K20	C22S-WRS-MS1-K20	
	40°		1NC	C22-WRS-MS1-K01	C22S-WRS-MS1-K01	
			2NC	C22-WRS-MS1-K02	C22S-WRS-MS1-K02	
			1NO/1NC	C22-WRS-MS1-K11	C22S-WRS-MS1-K11	
		MS2	1N0	C22-WRS-MS2-K10	C22S-WRS-MS2-K10	
			2N0	C22-WRS-MS2-K20	C22S-WRS-MS2-K20	
			1NC	C22-WRS-MS2-K01	C22S-WRS-MS2-K01	
			2NC	C22-WRS-MS2-K02	C22S-WRS-MS2-K02	
			1NO/1NC	C22-WRS-MS2-K11	C22S-WRS-MS2-K11	
		MS3	1N0	C22-WRS-MS3-K10	C22S-WRS-MS3-K10	
			2N0	C22-WRS-MS3-K20	C22S-WRS-MS3-K20	
			1NC	C22-WRS-MS3-K01	C22S-WRS-MS3-K01	
			2NC	C22-WRS-MS3-K02	C22S-WRS-MS3-K02	
			1NO/1NC	C22-WRS-MS3-K11	C22S-WRS-MS3-K11	









22.5 mm Compact Pushbuttons—C22

Non-Illuminated Selector Switches, Key Operated, continued





Position	Туре	Key Code	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Two-position, continued	Maintained	MS4	1NO	C22-WRS-MS4-K10	C22S-WRS-MS4-K10
	key removal left/right		2N0	C22-WRS-MS4-K20	C22S-WRS-MS4-K20
	40°		1NC	C22-WRS-MS4-K01	C22S-WRS-MS4-K01
			2NC	C22-WRS-MS4-K02	C22S-WRS-MS4-K02
			1NO/1NC	C22-WRS-MS4-K11	C22S-WRS-MS4-K11
		MS5	1N0	C22-WRS-MS5-K10	C22S-WRS-MS5-K10
			2N0	C22-WRS-MS5-K20	C22S-WRS-MS5-K20
			1NC	C22-WRS-MS5-K01	C22S-WRS-MS5-K01
			2NC	C22-WRS-MS5-K02	C22S-WRS-MS5-K02
			1NO/1NC	C22-WRS-MS5-K11	C22S-WRS-MS5-K11
		MS6	1N0	C22-WRS-MS6-K10	C22S-WRS-MS6-K10
			2N0	C22-WRS-MS6-K20	C22S-WRS-MS6-K20
			1NC	C22-WRS-MS6-K01	C22S-WRS-MS6-K01
			2NC	C22-WRS-MS6-K02	C22S-WRS-MS6-K02
			1NO/1NC	C22-WRS-MS6-K11	C22S-WRS-MS6-K11
		MS7	1N0	C22-WRS-MS7-K10	C22S-WRS-MS7-K10
			2N0	C22-WRS-MS7-K20	C22S-WRS-MS7-K20
			1NC	C22-WRS-MS7-K01	C22S-WRS-MS7-K01
			2NC	C22-WRS-MS7-K02	C22S-WRS-MS7-K02
			1NO/1NC	C22-WRS-MS7-K11	C22S-WRS-MS7-K11
		MS8	1NO	C22-WRS-MS7-K10	C22S-WRS-MS7-K10
			2N0	C22-WRS-MS7-K20	C22S-WRS-MS7-K20
			1NC	C22-WRS-MS7-K01	C22S-WRS-MS7-K01
			2NC	C22-WRS-MS7-K02	C22S-WRS-MS7-K02
			1NO/1NC	C22-WRS-MS7-K11	C22S-WRS-MS7-K11
Two-position	Maintained	MS1	1N0	C22-WRS-MS1-A1-K10	C22S-WRS-MS1-A1-K10
	key removal left		2N0	C22-WRS-MS1-A1-K20	C22S-WRS-MS1-A1-K20
	40°		1NC	C22-WRS-MS1-A1-K01	C22S-WRS-MS1-A1-K01
			2NC	C22-WRS-MS1-A1-K02	C22S-WRS-MS1-A1-K02
			1NO/1NC	C22-WRS-MS1-A1-K11	C22S-WRS-MS1-A1-K11
Three Position	Momentary	MS1	2N0	C22-WS3-MS1-K20	C22S-WS3-MS1-K20
	Key Removal Center		2NC	C22-WS3-MS1-K02	C22S-WS3-MS1-K02
	40° 40°		1NO/1NC	C22-WS3-MS1-K11	C22S-WS3-MS1-K11
	Maintained	MS1	2N0	C22-WRS3-MS1-K20	C22S-WRS3-MS1-K20
	Key Removal Left/Right 60° II 60°		2NC	C22-WRS3-MS1-K02	C22S-WRS3-MS1-K02
	00 00		1NO/1NC	C22-WRS3-MS1-K11	C22S-WRS3-MS1-K11









22.5 mm Compact Pushbuttons—C22

37

Technical Data and Specifications

22.5 mm Compact Pushbuttons—C22

			Pushbutton Ac Illuminated Pu	ctuators ushbuttons C22	Indicator	Selector Switch	Key-Operated	Emergency Stop/ Emergency Switching
Description	Unit		Momentary	Maintained	Lights C22	Actuators C22	Buttons C22	OFF Pushbuttons C22
General								
Standards					IE	C/EN 60947 VDE 0660		
Lifespan, mechanical	Operations	x 10 ⁶	5	1	_	1	0.1	0.05
Operating frequency	Operations/h		≥3600	≥3600	_	≥2000	≥100	≥300
Actuating force		N	≥5	≥5	_	_	_	≥50
Operating torque		Nm	_	_	_	≥0.3	≥0.5	_
Terminal screw tightening torque		Nm	0.8	0.8	0.8	0.8	0.8	0.8
Threaded ring tightening torque		Nm	2	2	2	2	2	2
Protection type			IP67, IP69K	IP67, IP69K	IP67, IP69K	IP65	IP66	IP67, IP69K
Climatic proofing						at, constant, to IEC 60068 eat, cyclic, to IEC 60068-2		
Ambient temperature								
Open		°C	-25° to 70°	–25° to 70°	-25° to 70°	−25° to 70°	−25° to 70°	–25° to 70°
Storage		°C	-30° to 80°	−30° to 80°	−30° to 80°	-30° to 80°	-30° to 80°	-30° to 80°
Mounting position			As required	As required	As required	As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	30	30	30	30	30	30
Terminal capacities								
Solid		mm^2	2 x 0.5-1.5	2 x 0.5–1.5	2 x 0.5-1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5
Flexible with ferrule		mm ²	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5
Contacts								
Rated impulse withstand voltage	U _{imp}	Vac	4000	4000	4000	4000	4000	4000
Rated insulation voltage	Ui	V	250	250	250	250	250	250
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3	III/3
Control circuit reliability								
at 5 Vdc/1 mA	H _F	Fault probability	Values follow	Values follow	_	Values follow	Values follow	Values follow
at 17 Vdc/7 mA	H _F	Fault probability	N/O contact: statistically determined — N/O contact: statistically determined 1 / 1 failure per 17 x 106 operations N/C contact: statistically determined 1 failure per 0.9 x 10 ⁶ operations N/C contact: statistically determined 1 0.9 x 10 ⁶ operations				tions rmined 1 failure per	
at 24 Vdc/5 mA	H _F	Fault probability	Values follow	Values follow	_	Values follow	Values follow	Values follow
Max. short-circuit protective device								
Fuse	gG/gL	Α	10	10	_	10	10	10













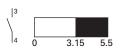
22.5 mm Compact Pushbuttons—C22

22.5 mm Compact Pushbuttons—C22, continued

				Push-button Actuators Illuminated Pushbuttons C22		Selector Switch	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22	
Description	Unit		Momentary	Maintained	Lights C22	Actuators C22			
Switching Capacity									
Rated operational current									
AC-15									
24V	l _e	А	4	4	_	4	4	4	
110V	I _e	А	2	2	_	2	2	2	
230V	l _e	А	1.5	1.5	_	1.5	1.5	1.5	
DC-13									
24V	I _e	Α	3	3	_	3	3	3	
60V	l _e	А	1	1	_	1	1	1	
110V	I _e	А	0.6	0.6	_	0.6	0.6	0.6	
220V	I _e	А	0.3	0.3	_	0.3	0.3	0.3	
Lifespan, electrical									
AC-15									
230V/0.5A	Operations	x 10 ⁶	0.4	0.4	_	0.4	0.4	0.4	
230V/1.0A		x 10 ⁶	0.6	0.6	_	0.6	0.6	0.6	

Contact Travel

Contact Travel Diagram





Contact closed

Contact open





22.5 mm Compact Pushbuttons—C22

37

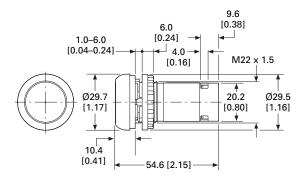
Dimensions

Approximate Dimensions in mm [in]

Illuminated Pushbuttons

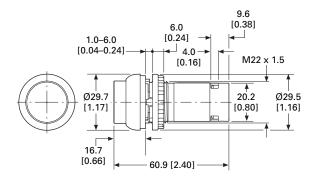
Flat

C22(S)-DRL_/C22(S)-DL_



Extended

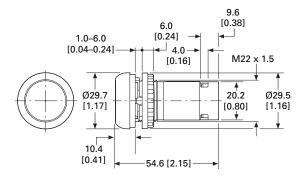
C22(S)-DRLH_/C22(S)-DLH_



Pushbutton Actuators

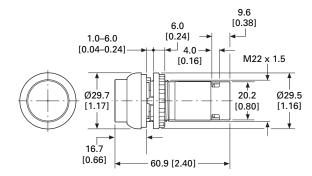
Flat

C22(S)-DR_/C22(S)-D_



Extended

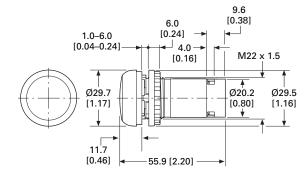
C22(S)-DRH_/C22(S)-DH_



Indicating Lights

Flat

C22-L_

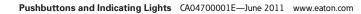














37.5

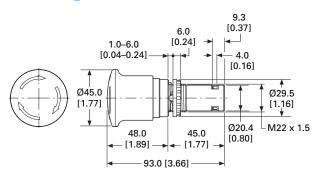


22.5 mm Compact Pushbuttons—C22

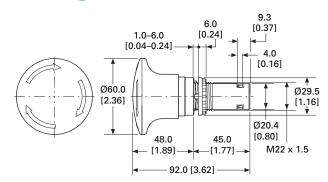
Approximate Dimensions in mm [in]

Emergency Stop/Emergency Switching OFF Pushbuttons

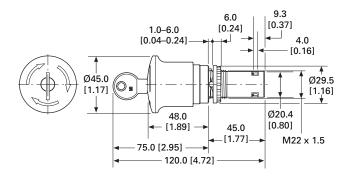
C22-PVT45P



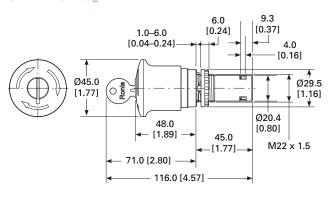
C22-PVT60P



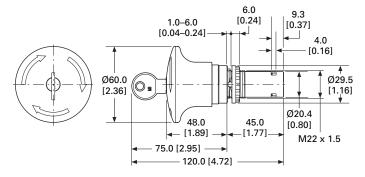
C22-PVT45P-MS_



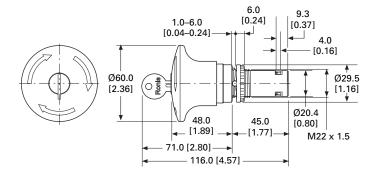
C22-PVT45P-RS_



C22-PVT60P-MS



C22-PVT60P-MS_









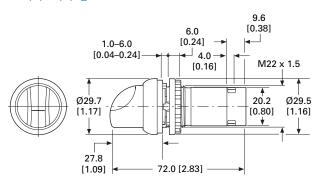
22.5 mm Compact Pushbuttons—C22

37

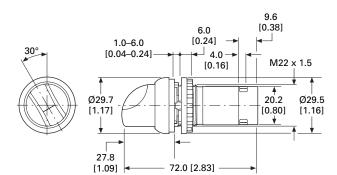
Approximate Dimensions in mm [in]

Selector Switch Actuators

C22(S)-W(R)K_

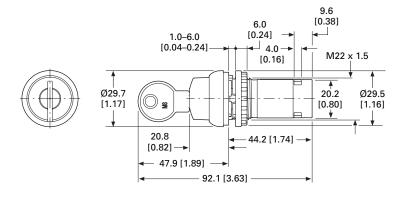


Selector Switch Actuators/V Position C22(S)-W(R)KV_

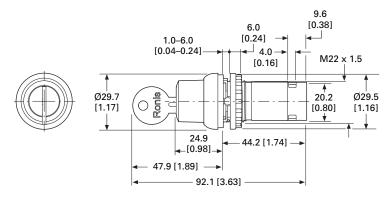


Key Operated Actuators

C22(S)-WS(3)-MS_/C22(S)-WRS(3)-MS_



C22(S)-WS(3)-RS_/C22(S)-WRS(3)-RS_









22.5 mm Compact Pushbuttons—C22







37.5

Pushbuttons and Indicating Lights

22.5 mm Compact Pushbuttons—C22



37





22.5 mm Compact Pushbuttons—C22









Eaton's Electrical Sector is a global leader in power distribution, power quality, control and automation, and monitoring products. When combined with Eaton's full-scale engineering services, these products provide customerdriven PowerChain™ solutions to serve the power system needs of the data center, industrial, institutional, public sector, utility, commercial, residential, IT, mission critical, alternative energy and OEM markets worldwide.

PowerChain solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle, resulting in enhanced safety, greater reliability and energy efficiency. For more information, visit www.eaton.com/electrical.



Electrical Sector 1111 Superior Ave. Cleveland, OH 44114 United States 877-ETN-CARE (877-386-2273) Eaton.com

©2011 Eaton Corporation All Rights Reserved Printed in USA Publication No. CA04700001E / Z10857 June 2011











X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for eaton manufacturer:

Other Similar products are found below:

BK-MDL-3-R BK1-S506-500-R BK1-S506-6-3-R BK1-S506-2-R MPI4040R4-1R5-R TDC600-10A 89096-015 8946K153 8961K155 M22-D-R-GB0/K11 M22-L-R/R M22S-ST-GB12 630NHG3B 63ET 6422 6580 CTX20-16-52LP-R CWL530FI CXM/CO/GP/R/BB 6HD36 714125 MBO-2 ESR5-NO-41-24VAC-DC 7314K36 7321K2 F02A-1-1/2A F02A-1-1/2AS F02A-1AS F02A-2AS F02A-3/4A F03A250V12A F03B125V4A MCR-4 MDA-2-8/10-R MDA-30A MDA-V-1/16 F60C500V10AS F60C500V15AS 7563K84 7634K36 MDQ-3/16 MDQ-7/10 MDQ-V-1/10 MDQ-V-1/14 MDQ-V-1/16 MDQ-V-1/2 MDQ-V-3/16 MDQ-V-3/8 MDQ-V-6/10