Pushbuttons

Indicating Lights

Emergency Stops

Selector Switches

37.5 22.5 mm Compact Pushbuttons—C22

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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

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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

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 non-keyed 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

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Product Selection Guide

Pushbuttons

Description	Non-illuminated, flush		Non-illuminated, extended		Illuminated, flush		Illuminated, extended	
Operator	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained
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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**

Pushbuttons—Non-Illuminated and Illuminated

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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

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Catalog Number Selection

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

Non-Illuminated Pushbuttons

C22 - D - G - X1 - K10

Bezel	Operator Type	Button Plate Color	Button Etching	Contact Blocks
C22 = Silver **C22S** = Black	**D** = Flush, momentary **DR** = Flush, maintained **DH** = Extended, momentary **DRH** = Extended, maintained	**G** = Green **R** = Red **S** = Black **W** = White **X** = Buttonless	**X0** = ◎ **X1** = ①	**K10** = 1NO **K20** = 2NO **K01** = 1NC **K02** = 2NC **K11** = 1NO/1NC

Product Selection

Non-Illuminated, Flush, Momentary

C22(S)-D-_

Non-Illuminated Pushbuttons, Flush, Momentary

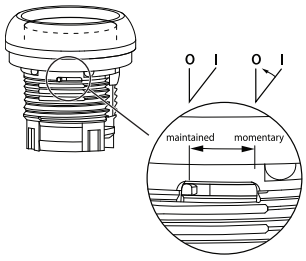
Button Color	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	—	1NO	**C22-D-G-K10**	**C22S-D-G-K10**
	—	2NO	**C22-D-G-K20**	**C22S-D-G-K20**
	—	1NO/1NC	**C22-D-G-K11**	**C22S-D-G-K11**
	X1	1NO	**C22-D-G-X1-K10**	**C22S-D-G-X1-K10**
	X1	2NO	**C22-D-G-X1-K20**	**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	—	1NO	**C22-D-W-K10**	**C22S-D-W-K10**
	—	2NO	**C22-D-W-K20**	**C22S-D-W-K20**
	—	1NO/1NC	**C22-D-W-K11**	**C22S-D-W-K11**
	X1	1NO	**C22-D-W-X1-K10**	**C22S-D-W-X1-K10**
	X1	2NO	**C22-D-W-X1-K20**	**C22S-D-W-X1-K20**
	X1	1NO/1NC	**C22-D-W-X1-K11**	**C22S-D-W-X1-K11**
Buttonless	—	1NO	**C22-D-X-K10**	**C22S-D-X-K10**
	—	2NO	**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**

Non-Illuminated, Flush, Maintained

C22(S)-DR-_

Non-Illuminated Pushbuttons, Flush, Maintained

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

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Non-Illuminated, Extended, Momentary

C22(S)-DH-_

Non-Illuminated Pushbuttons, Extended, Momentary

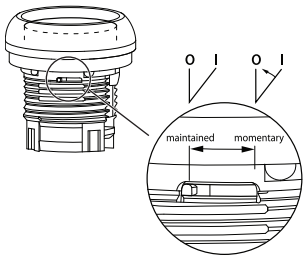
Button Color	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	—	1NO	**C22-DH-G-K10**	**C22S-DH-G-K10**
	—	2NO	**C22-DH-G-K20**	**C22S-DH-G-K20**
	—	1NO/1NC	**C22-DH-G-K11**	**C22S-DH-G-K11**
	X1	1NO	**C22-DH-G-X1-K10**	**C22S-DH-G-X1-K10**
	X1	2NO	**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**
	X0	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	—	1NO	**C22-DH-W-K10**	**C22S-DH-W-K10**
	—	2NO	**C22-DH-W-K20**	**C22S-DH-W-K20**
	—	1NO/1NC	**C22-DH-W-K11**	**C22S-DH-W-K11**
	X1	1NO	**C22-DH-W-X1-K10**	**C22S-DH-W-X1-K10**
	X1	2NO	**C22-DH-W-X1-K20**	**C22S-DH-W-X1-K20**
	X1	1NO/1NC	**C22-DH-W-X1-K11**	**C22S-DH-W-X1-K11**

Non-Illuminated, Extended, Maintained

C22(S)-DRH-_

Non-Illuminated Pushbuttons, Extended, Maintained

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

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Catalog Number Selection

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

Illuminated Pushbuttons

C22 - DL - G - X1 - K10 - 24

Bezel	Operator Type	LED/Lens Color	Lens Etching	Contact Blocks	LED Voltage
C22 = Silver **C22S** = Black	**DL** = Illuminated, flush, momentary **DRL** = Illuminated, flush, maintained **DHL** = Illuminated, extended, momentary **DRHL** = Illuminated, extended, maintained	**G** = Green **R** = Red **W** = White **B** = Blue **XG** = Green without lens **XR** = Red without lens **XW** = White without lens **XB** = Blue without lens	**X0** = ◎ **X1** = ⓘ	**K10** = 1NO **K01** = 1NC	**24** = 24 Vac/Vdc **120** = 120 Vac **230** = 230 Vac

Product Selection

Illuminated, Flush, Momentary

C22(S)-DL-_

Illuminated Pushbuttons, Flush, Momentary

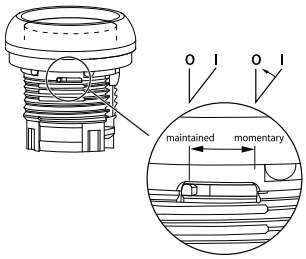
LED Color	Button Color	Voltage	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	—	1NO	**C22-DL-G-K10-24**	**C22S-DL-G-K10-24**
		120 Vac	—	1NO	**C22-DL-G-K10-120**	**C22S-DL-G-K10-120**
		230 Vac	—	1NO	**C22-DL-G-K10-230**	**C22S-DL-G-K10-230**
		24 Vac/Vdc	X1	1NO	**C22-DL-G-X1-K10-24**	**C22S-DL-G-X1-K10-24**
		120 Vac	X1	1NO	**C22-DL-G-X1-K10-120**	**C22S-DL-G-X1-K10-120**
		230 Vac	X1	1NO	**C22-DL-G-X1-K10-230**	**C22S-DL-G-X1-K10-230**
	Buttonless	24 Vac/Vdc	—	1NO	**C22-DL-XG-K10-24**	**C22S-DL-XG-K10-24**
		120 Vac	—	1NO	**C22-DL-XG-K10-120**	**C22S-DL-XG-K10-120**
		230 Vac	—	1NO	**C22-DL-XG-K10-230**	**C22S-DL-XG-K10-230**
Red	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	—	1NO	**C22-DL-W-K10-24**	**C22S-DL-W-K10-24**
		120 Vac	—	1NO	**C22-DL-W-K10-120**	**C22S-DL-W-K10-120**
		230 Vac	—	1NO	**C22-DL-W-K10-230**	**C22S-DL-W-K10-230**
		24 Vac/Vdc	X1	1NO	**C22-DL-W-X1-K10-24**	**C22S-DL-W-X1-K10-24**
		120 Vac	X1	1NO	**C22-DL-W-X1-K10-120**	**C22S-DL-W-X1-K10-120**
		230 Vac	X1	1NO	**C22-DL-W-X1-K10-230**	**C22S-DL-W-X1-K10-230**
	Buttonless	24 Vac/Vdc	—	1NO	**C22-DL-XW-K10-24**	**C22S-DL-XW-K10-24**
		120 Vac	—	1NO	**C22-DL-XW-K10-120**	**C22S-DL-XW-K10-120**
		230 Vac	—	1NO	**C22-DL-XW-K10-230**	**C22S-DL-XW-K10-230**
Blue	Blue	24 Vac/Vdc	—	1NO	**C22-DL-B-K10-24**	**C22S-DL-B-K10-24**
		120 Vac	—	1NO	**C22-DL-B-K10-120**	**C22S-DL-B-K10-120**
		230 Vac	—	1NO	**C22-DL-B-K10-230**	**C22S-DL-B-K10-230**
	Buttonless	24 Vac/Vdc	—	1NO	**C22-DL-XB-K10-24**	**C22S-DL-XB-K10-24**
		120 Vac	—	1NO	**C22-DL-XB-K10-120**	**C22S-DL-XB-K10-120**
		230 Vac	—	1NO	**C22-DL-XB-K10-230**	**C22S-DL-XB-K10-230**

Illuminated, Flush, Maintained

C22(S)-DRL-_

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	1NO	**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	1NO	**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.

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Illuminated, Extended, Momentary

C22(S)-DLH-_

Illuminated Pushbuttons, Extended, Momentary

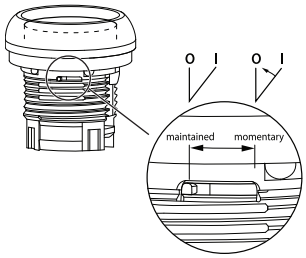
LED Color	Button Color	Voltage	Button Etching	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	—	1NO	**C22-DLH-G-K10-24**	**C22S-DLH-G-K10-24**
		120 Vac	—	1NO	**C22-DLH-G-K10-120**	**C22S-DLH-G-K10-120**
		230 Vac	—	1NO	**C22-DLH-G-K10-230**	**C22S-DLH-G-K10-230**
		24 Vac/Vdc	X1	1NO	**C22-DLH-G-X1-K10-24**	**C22S-DLH-G-X1-K10-24**
		120 Vac	X1	1NO	**C22-DLH-G-X1-K10-120**	**C22S-DLH-G-X1-K10-12**
		230 Vac	X1	1NO	**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	1NO	**C22-DLH-W-X1-K10-120**	**C22S-DLH-W-X1-K10-12**
		230 Vac	X1	1NO	**C22-DLH-W-X1-K10-230**	**C22S-DLH-W-X1-K10-23**
Blue	Blue	24 Vac/Vdc	—	1NO	**C22-DLH-B-K10-24**	**C22S-DLH-B-K10-24**
		120 Vac	—	1NO	**C22-DLH-B-K10-120**	**C22S-DLH-B-K10-120**
		230 Vac	—	1NO	**C22-DLH-B-K10-230**	**C22S-DLH-B-K10-230**

Illuminated, Extended, Maintained

C22(S)-DRLH-_

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	—	1NO	**C22-DRLH-G-K10-24**	**C22S-DRLH-G-K10-24**
		120 Vac	—	1NO	**C22-DRLH-G-K10-120**	**C22S-DRLH-G-K10-120**
		230 Vac	—	1NO	**C22-DRLH-G-K10-230**	**C22S-DRLH-G-K10-230**
		24 Vac/Vdc	X1	1NO	**C22-DRLH-G-X1-K10-24**	**C22S-DRLH-G-X1-K10-24**
		120 Vac	X1	1NO	**C22-DRLH-G-X1-K10-120**	**C22S-DRLH-G-X1-K10-120**
		230 Vac	X1	1NO	**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	—	1NO	**C22-DRLH-W-K10-24**	**C22S-DRLH-W-K10-24**
		120 Vac	—	1NO	**C22-DRLH-W-K10-120**	**C22S-DRLH-W-K10-120**
		230 Vac	—	1NO	**C22-DRLH-W-K10-230**	**C22S-DRLH-W-K10-230**
		24 Vac/Vdc	X1	1NO	**C22-DRLH-W-X1-K10-24**	**C22S-DRLH-W-X1-K10-24**
		120 Vac	X1	1NO	**C22-DRLH-W-X1-K10-120**	**C22S-DRLH-W-X1-K10-120**
		230 Vac	X1	1NO	**C22-DRLH-W-X1-K10-230**	**C22S-DRLH-W-X1-K10-230**
Blue	Blue	24 Vac/Vdc	—	1NO	**C22-DRLH-B-K10-24**	**C22S-DRLH-B-K10-24**
		120 Vac	—	1NO	**C22-DRLH-B-K10-120**	**C22S-DRLH-B-K10-120**
		230 Vac	—	1NO	**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.

Indicating Lights

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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

Catalog Number Selection

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

Indicating Lights

C22 - L - G - 24

Bezel	LED/Lens Color	LED Voltage
C22-L = Flush indicating light	**G** = Green **R** = Red **W** = White **Y** = Yellow **B** = Blue **XG** = Green without lens **XR** = Red without lens **XW** = White without lens ① **XB** = Blue without lens	**24** = 24 Vac/Vdc **120** = 120 Vac **230** = 230 Vac

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**

Note

① Use white LED for both white and yellow lenses.

Emergency Stops

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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-to-release 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 Controls, Logic and Connectivity, CA08100008E, Tab 37, section 37.4, 22.5 mm Modular Pushbuttons—M22.

Features

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

Protection Type

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

Catalog Number Selection

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

Emergency Stops

C22 - PVS45P - MS1 - K01

Operator Type	Key Code	Contact Blocks
PVT45P = Twist-release, 45 mm	**MS1** = MS1	**K02** = 2NC
PVT60P = Twist-release, 60 mm	**MS2** = MS2	**K11** = 1NO/1NC
PVS45P = Key-release, 45 mm	**MS3** = MS3	
PVS60P = Key-release, 60 mm	**MS4** = MS4	
	MS5 = MS5	
	MS6 = MS6	
	MS7 = MS7	
	MS8 = MS8	
	RS = Ronis-445	

Product Selection

Non-Illuminated, Twist-Release

C22-PVT_

Non-Illuminated Emergency Stops, Twist-Release

Release Method	Operator Size	Contact Block 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**

Non-Illuminated, Keyed-Release

C22-PVS_

Non-Illuminated Emergency Stops, Keyed-Release

Release Method	Operator Size	Key Code	Contact Block 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**

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**

Selector Switches

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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 (non-keyed) rated for 1 million mechanical operations
- Momentary selector switches are field convertible from momentary to maintained

Protection Type

- IP65
- NEMA 4X, 13

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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

C22 - WK - K10

Bezel	Operator Type	Contact Blocks
C22 = Silver **C22S** = Black	**WK** = 2-position, momentary **WKV** = 2-position, momentary, "V" position **WRK** = 2-position, maintained **WRKV** = 2-position, maintained, "V" position **WK3** = 3-position, momentary **WRK3** = 3-position, maintained	**K10** = 1NO **K20** = 2NO **K01** = 1NC **K02** = 2NC **K11** = 1NO/1NC

Product Selection

Non-Illuminated, Knob Type

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

Non-Illuminated Selector Switches, Knob Type

Type	Switching Position	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Two-position	Momentary 40°	1NO	**C22-WK-K10**	**C22S-WK-K10**
		2NO	**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 60°	1NO	**C22-WKV-K10**	**C22S-WKV-K10**
		2NO	**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 40°	1NO	**C22-WRK-K10**	**C22S-WRK-K10**
		2NO	**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 60°	1NO	**C22-WRKV-K10**	**C22S-WRKV-K10**
		2NO	**C22-WRKV-K20**	**C22S-WRKV-K20**
		1NC	**C22-WRKV-K01**	**C22S-WRKV-K01**
		2NC	**C22-WRKV-K02**	**C22S-WRKV-K02**
		1NO/1NC	**C22-WRKV-K11**	**C22S-WRKV-K11**
Three-position	Momentary 40° 40°	2NO	**C22-WK3-K20**	**C22S-WK3-K20**
		2NC	**C22-WK3-K02**	**C22S-WK3-K02**
		1NO/1NC	**C22-WK3-K11**	**C22S-WK3-K11**
	Maintained 60° 60°	2NO	**C22-WRK3-K20**	**C22S-WRK3-K20**
		2NC	**C22-WRK3-K02**	**C22S-WRK3-K02**
		1NO/1NC	**C22-WRK3-K11**	**C22S-WRK3-K11**

Note: Momentary selector switches can be field converted to maintained.

Catalog Number Selection

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

Selector Switches—Keyed

C22 - WS - MS1 - A1 - K10
①

Bezel	Operator Type	Key Code	Contact Blocks
C22 = Silver	**WS** = 2-position, momentary	**MS1** = MS1	**K10** = 1NO
C22S = Black	**WRS** = 2-position, maintained	**MS2** = MS2	**K20** = 2NO
	WRS-…-A1 ① = 2-position, maintained, key removal left	**MS3** = MS3	**K01** = 1NC
		MS4 = MS4	**K02** = 2NC
	WS3 = 3-position, momentary	**MS5** = MS5	**K11** = 1NO/1NC
	WRS3 = 3-position, maintained	**MS6** = MS6	
		MS7 = MS7	
		MS8 = MS8	

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 key removal left 40°	MS1	1NO	**C22-WS-MS1-K10**	**C22S-WS-MS1-K10**
			2NO	**C22-WS-MS1-K20**	**C22S-WS-MS1-K20**
			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	1NO	**C22-WS-MS2-K10**	**C22S-WS-MS2-K10**
			2NO	**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	1NO	**C22-WS-MS3-K10**	**C22S-WS-MS3-K10**
			2NO	**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	1NO	**C22-WS-MS4-K10**	**C22S-WS-MS4-K10**
			2NO	**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	1NO	**C22-WS-MS5-K10**	**C22S-WS-MS5-K10**
			2NO	**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**

Note: Momentary selector switches can be field converted to maintained.

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C22(S)-WRS-MS_

Non-Illuminated Selector Switches, Key Operated, continued

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

Note: Momentary selector switches can be field converted to maintained.

C22(S)-WRS…-MS1_

Non-Illuminated Selector Switches, Key Operated, continued

Position	Type	Key Code	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Two-position, continued	Maintained key removal left/right	MS4	1NO	**C22-WRS-MS4-K10**	**C22S-WRS-MS4-K10**
			2NO	**C22-WRS-MS4-K20**	**C22S-WRS-MS4-K20**
			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	1NO	**C22-WRS-MS5-K10**	**C22S-WRS-MS5-K10**
			2NO	**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	1NO	**C22-WRS-MS6-K10**	**C22S-WRS-MS6-K10**
			2NO	**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	1NO	**C22-WRS-MS7-K10**	**C22S-WRS-MS7-K10**
			2NO	**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**
			2NO	**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 key removal left	MS1	1NO	**C22-WRS-MS1-A1-K10**	**C22S-WRS-MS1-A1-K10**
			2NO	**C22-WRS-MS1-A1-K20**	**C22S-WRS-MS1-A1-K20**
			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 Key Removal Center	MS1	2NO	**C22-WS3-MS1-K20**	**C22S-WS3-MS1-K20**
			2NC	**C22-WS3-MS1-K02**	**C22S-WS3-MS1-K02**
			1NO/1NC	**C22-WS3-MS1-K11**	**C22S-WS3-MS1-K11**
	Maintained Key Removal Left/Right	MS1	2NO	**C22-WRS3-MS1-K20**	**C22S-WRS3-MS1-K20**
			2NC	**C22-WRS3-MS1-K02**	**C22S-WRS3-MS1-K02**
			1NO/1NC	**C22-WRS3-MS1-K11**	**C22S-WRS3-MS1-K11**

Note: Momentary selector switches can be field converted to maintained.

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Technical Data and Specifications

22.5 mm Compact Pushbuttons—C22

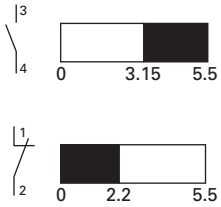
Description	Unit		Pushbutton Actuators Illuminated Pushbuttons C22 Momentary	Pushbutton Actuators Illuminated Pushbuttons C22 Maintained	Indicator Lights C22	Selector Switch Actuators C22	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22
General								
Standards					IEC/EN 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			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30					
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	U_i	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 1 failure per 17 x 106 operations N/C contact: statistically determined 1 failure per 0.9 x 10^6 operations		—	N/O contact: statistically determined 1 failure per 17 x 106 operations N/C contact: statistically determined 1 failure per 0.9 x 10^6 operations		
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	A	10	10	—	10	10	10

22.5 mm Compact Pushbuttons—C22, continued

Description	Unit		Push-button Actuators Illuminated Pushbuttons C22 Momentary	Maintained	Indicator Lights C22	Selector Switch Actuators C22	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22
Switching Capacity								
Rated operational current								
AC-15								
24V	I_e	A	4	4	—	4	4	4
110V	I_e	A	2	2	—	2	2	2
230V	I_e	A	1.5	1.5	—	1.5	1.5	1.5
DC-13								
24V	I_e	A	3	3	—	3	3	3
60V	I_e	A	1	1	—	1	1	1
110V	I_e	A	0.6	0.6	—	0.6	0.6	0.6
220V	I_e	A	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



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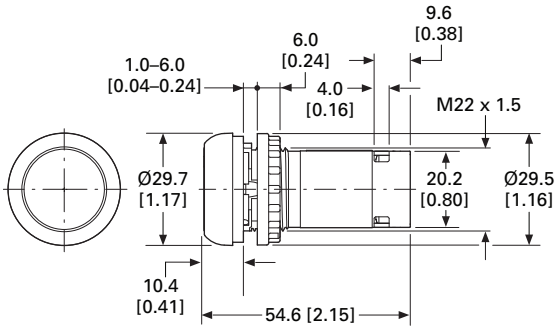
Dimensions

Approximate Dimensions in mm [in]

Illuminated Pushbuttons

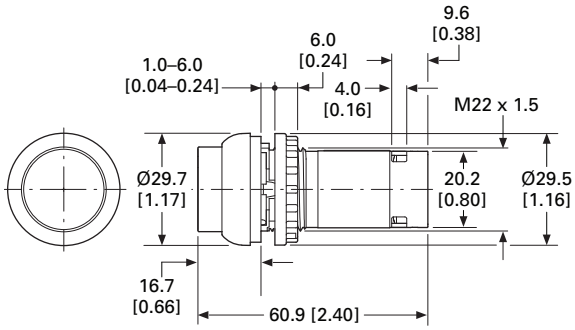
Flat

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



Extended

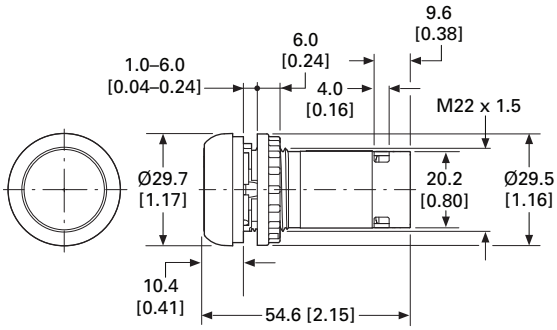
C22(S)-DRLH_/C22(S)-DLH_



Pushbutton Actuators

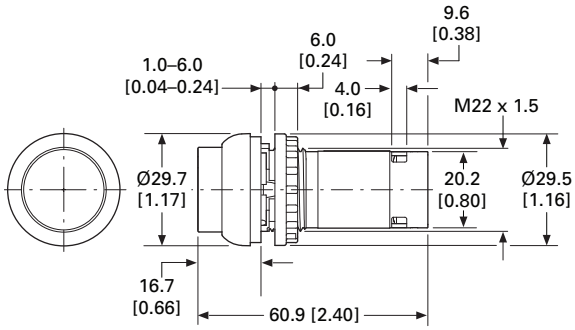
Flat

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



Extended

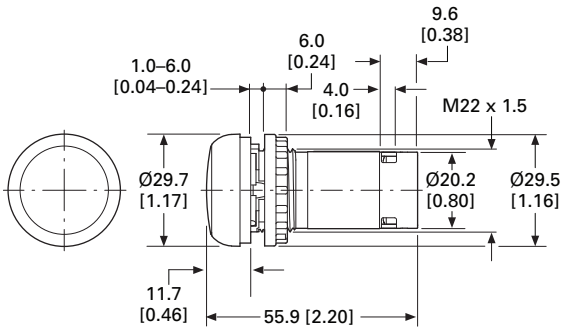
C22(S)-DRH_/C22(S)-DH_



Indicating Lights

Flat

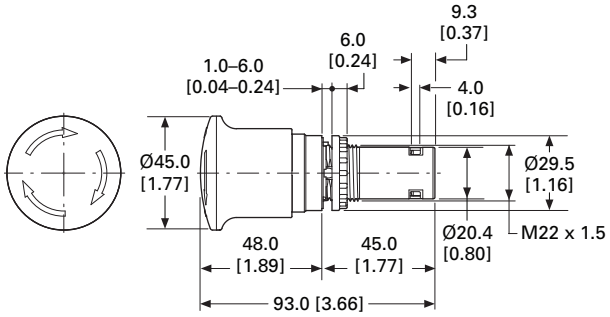
C22-L_



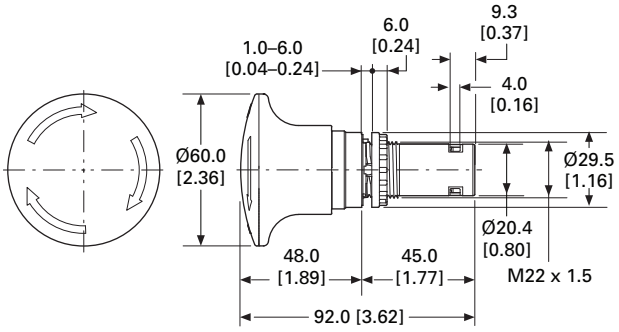
Approximate Dimensions in mm [in]

Emergency Stop/Emergency Switching OFF Pushbuttons

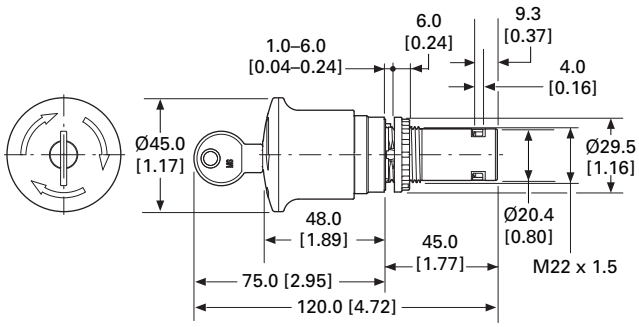
C22-PVT45P_



C22-PVT60P_



C22-PVT45P-MS_



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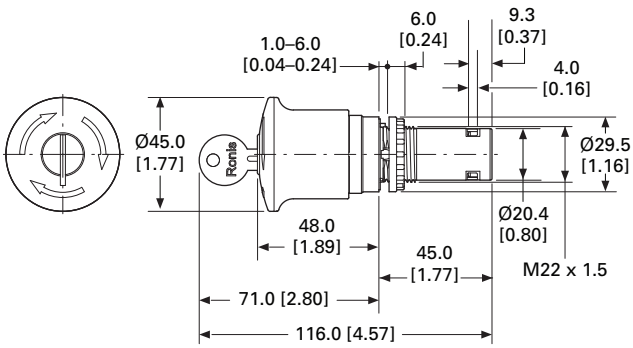
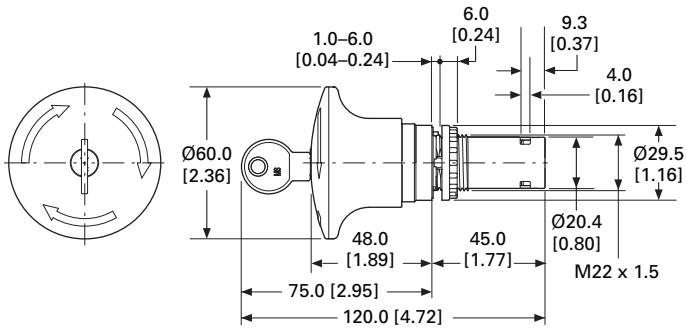
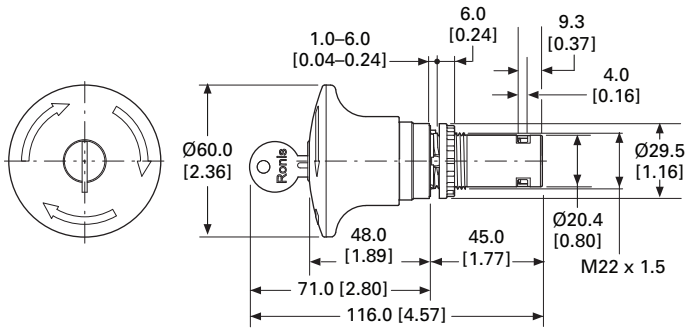


C22-PVT60P-MS_



C22-PVT60P-MS_



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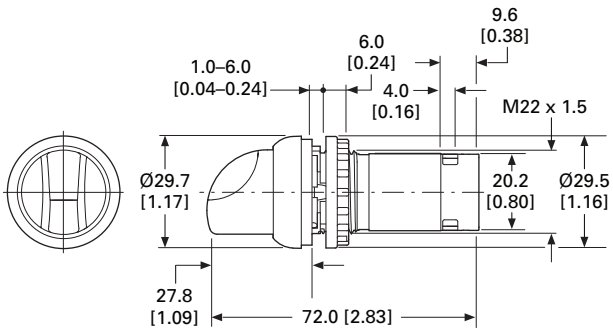
Approximate Dimensions in mm [in]

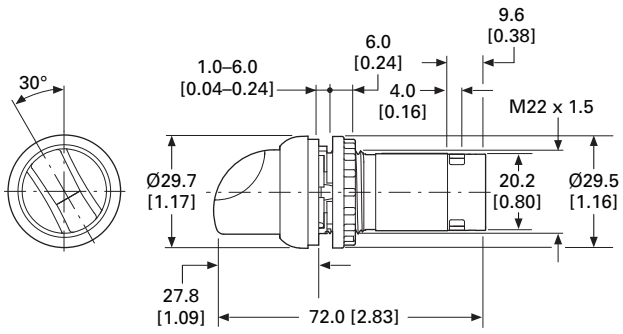
Selector Switch Actuators

C22(S)-W(R)K_



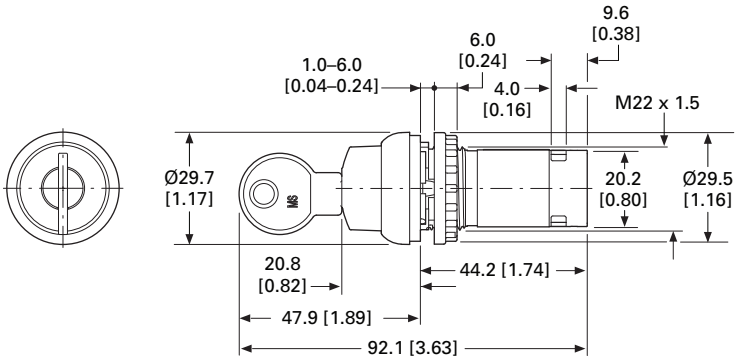
Selector Switch Actuators/V Position

C22(S)-W(R)KV_

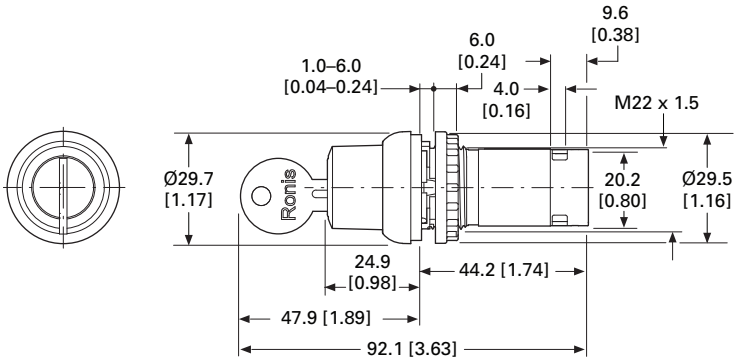


Key Operated Actuators

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



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



37.5 Pushbuttons and Indicating Lights

22.5 mm Compact Pushbuttons—C22

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