Clean. Compact. Complete.

C22 pilot devices offer clean installation, compact design and a complete selection of operators for virtually any industrial application.





C22 Clean. Compact. Complete.



Clean installation.

Reduce installation time with C22's simple, central nut application. Contacts are built into the barrel, eliminating separate contact blocks and lamp elements.



Compact design.

The line features a 22 mm monoblock design with an "all in one" housing that includes contacts and lamp elements.



Complete offering.

C22 monoblock pilot devices offer a broad selection of operators, functionality and features, exceeding what is typical for this class of device.

The C22 line features monoblock construction with built-in contacts for a clean, simple installation. The 22 mm design is compact, yet offers the same pressable area as 30 mm buttons. Choose from a broad selection of standard operators, including keyed switches and two sizes of emergency stops, both keyed and non-keyed. Laser etching of button plates is also available for custom applications.

Innovative design

C22 pilot devices are modeled after our modern M22 line. Graceful curves, clean lines and two styles of colored bezels, titanium and black, provide a distinguished look to make your panel stand out. In addition, the two lines share many common parts and accessories that make the C22 even more flexible and complete.

Rugged

C22 standard buttons have a mechanical lifespan up to five million operations. That's equivalent to performing one ON/OFF cycle every minute for over 9.5 years. They can also operate in ambient temperatures between -25 °C and +70 °C (-13 °F to 158 °F) for use in the harshest environments. Illuminated operators are all equipped with LED bulbs with lifespans up to 100,000 hours.

High environmental ratings

Most front elements have a minimum IP67 (NEMA® 4X, 13) environmental rating, protecting them against water immersion to one meter. Many standard operators also have the more stringent IP69K ratings, protecting them from submersion and high pressure/temperature wash down environments.















Broad selection

The C22 line includes a broad selection, exceeding what is typical for this class of device:









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1. Flush, non-illuminated pushbutton

Momentary and maintained; maintained are field convertible to momentary.

2. Extended, non-illuminated pushbutton

Momentary and maintained; maintained are field convertible to momentary.

3. Flush and extended illuminated pushbutton

Momentary and maintained; maintained are field convertible to momentary.

4. Pilot lights With LED illumination.

5. Keyed two- and three-position selector switches

Momentary and maintained; momentary are field convertible to maintained; 40 and 60 degree return; 11 different keys available.

6. Twist-and-release E-Stops

45 and 60 mm; keyed and non-keyed; 11 different keys available. LED light ring available for high visibility in missioncritical applications.

Available contact block configurations

Standard and extended pushbuttons; two-position selector switches



1NO/

1NC



1NC



2NO





Three-position selector switches



2NO



1NO/ 1NC



2NC



E-Stops

1NC

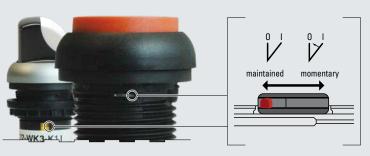


2NC



2NC





Reduce inventories

Unique to Eaton's 22 mm pilot devices is the ability to convert a button's functionality in the field. Maintained pushbuttons can be converted to momentary with the flick of a switch, while momentary selector switches can be converted to maintained. This flexibility adds tremendous advantage over dedicated-function devices currently on the market. Inventories are reduced and functionality is increased.

Technical data and specifications

Part				Pushbutton actuators		Indicator lights	Selector switches	Keyed operators (Inc. E-Stops)	Non-keyed E-Stop actuators
Marchanical Histopian	22 pilot devices		Momentary		Maintained				
	General								
	Standards					IEC/EN 60	947 VDE 0660		
Actuating force	Mechanical lifespan	Operations	x 10 ⁶	5	1	_	1	0.1	0.05
Departming storque Nm	Operating frequency	Operations/h		≤ 3600	≤ 3600	_	≤ 2000	≤ 100	≤ 300
Permission Commission Com	Actuating force		N	5	5	_	_	_	50
The cased wing bightening torque Nim 2	Operating torque		Nm	_	_	_	0.3	0.5	-
Protection type	Terminal screw tightening torque)	Nm	0.8	0.8	0.8	0.8	0.8	0.8
Calimatic proofing	Threaded ring tightening torque		Nm	2	2	2	2	2	2
Ambient temperature	Protection type			IP67, IP69K	IP67, IP69K	IP67, IP69K	IP65	IP66	IP67, IP69K
Company	Climatic proofing				Damp heat, const	ant, to IEC 60068-2	-78; Damp heat, cyc	lic, to IEC 60068-2-30	
Control Cont	Ambient temperature								
	Open		°F (°C)						-13 to 158 (-25 to 70)
Mechanical shock resistance to IEC 6008-2-27 g 30 30 30 30 30 30 30	Storage		°F (°C)						-22 to 176 (-30 to 80)
Shock duration 11 ms, half sinusoidal Teminal capacities Solid	Mounting position			As required	As required	As required	As required	As required	As required
Solid mm² 2x (0.5 - 1.5) 2x (0.5	Shock duration 11 ms, half-sinus		g	30	30	30	30	30	30
Plexible with ferrule mm² 2x (0.5 - 1.5) 2x (0.5	·								
Patted impulses withstand voltage Ump Vac 4000 4	Solid		mm ²	2x (0.5 - 1.5)		2x (0.5 - 1.5)	2x (0.5 - 1.5)	2x (0.5 – 1.5)	2x (0.5 – 1.5
Nated impulse withstand voltage Ump Vac 4000 400	Flexible with ferrule		mm ²	2x (0.5 - 1.5)	2x (0.5 – 1.5)	2x (0.5 - 1.5)	2x (0.5 - 1.5)	2x (0.5 – 1.5)	2x (0.5 – 1.5
Rated insulation voltage Ui	Contacts								
Rated insulation voltage U _i V 250 25	Rated impulse withstand voltage	· U _{imn}	Vac	4000	4000	4000	4000	4000	4000
Statistically determined 1 failure per			٧	250	250	250	250	250	250
Statistically determined 1 failure per 5 x 10° operations Statistically determined 1 failure per 5 x 10° operations	Overvoltage category / pollution	degree		III/3	III/3	III/3	III/3	III/3	III/3
Tailburg per 1,7 x 10° operations S x 10° operations NO contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,9 x 10° operations NC contact: statistically determined Tailburg per 1,9 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically determined Tailburg per 1,7 x 10° operations NC contact: statistically de	Control circuit reliability								
at 17 Vdc/7 mA H _r Fault probability 1 failure per 1.7 x 10 ⁷ operations NC contact: statistically determined 1 failure per 1.7 x 10 ⁷ operations NC contact: statistically determined 1 failure per 1.7 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failure per 0.9 x 10 ⁷ operations NC contact: statistically determined 1 failur	,	$H_{\scriptscriptstyle F}$				-			
Ac-15 24 V	at 17 Vdc/7 mA	H _F	Fault	NO contact: statistically determined – NO contact: statistically determined 1 failure pr 1.7 x 10 ⁷ operations NC contact: statistically determined 1 failure pr 1.7 x 10 ⁷ operations NC contact: statistically determined 1 failure pr 1.7 x 10 ⁷ operations				·	
Fuse gG/gL 10 10 - 10 10 10 Switching capacity Rated operational current AC-15 24 V Ie A 4 4 - 4 4 4 110 V Ie A 2 2 - 2 2 2 2 230 V Ie A 1.5 1.5 - 1.5 1	at 24 Vdc/5 mA	$H_{\scriptscriptstyle F}$		NO contact: statistically determined 1 failure per 1.7 x 10 ⁷ operations NC contact: statistically determined		-	NO contact: statistically determined 1 failure per 1.7 x 10 ⁷ operations NC contact: statistically determined 1 failure per		
Switching capacity Switchi	Max. short-circuit protective dev	ice							
Act-15 24 V	Fuse		gG/gL	10	10	-	10	10	10
AC-15 24 V									
24 V I _e A 4 4 - 4 4 4 110 V I _e A 2 2 - 2 2 2 2 230 V I _e A 1.5 1.5 - 1.5									
110 V I e A 2 2 2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		l.	A	4	4	_	4	4	4
230 V I A 1.5 1.5 - 1.5 1.		-				-			
DC-13 24 V		l.				_			
24 V I _e A 3 3 - 3 3 3 60 V I _e A 1 1 - 1 1 1 1 110 V I _e A 0.6 0.6 - 0.6 0.6 0.6 0.6 220 V I _e A 0.3 0.3 - 0.3 0.3 0.3 Electrical lifespan AC-15 230 V / 0.5 A Operations x 10 ⁶ 0.4 0.4 - 0.4 0.4 0.4 230 V / 1.0 A Operations x 10 ⁶ 0.6 0.6 - 0.6 0.6 0.6 0.6		.е							
60 V I _e A 1 1 - 1 1 1 110 V I _e A 0.6 0.6 - 0.6 0.6 0.6 220 V I _e A 0.3 0.3 - 0.3 0.3 0.3 Electrical lifespan AC-15 230 V / 0.5 A Operations x 10 ⁶ 0.4 0.4 - 0.4 0.4 0.4 230 V / 1.0 A Operations x 10 ⁶ 0.6 0.6 - 0.6 0.6 0.6		I _o	Α	3	3	_	3	3	3
110 V I _e A 0.6 0.6 - 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6						-			
220 V I _e A 0.3 0.3 - 0.3 0.3 0.3 Electrical lifespan AC-15 230 V / 0.5 A Operations x 106 0.4 0.4 - 0.4 0.4 0.4 230 V / 1.0 A Operations x 106 0.6 0.6 - 0.6 0.6 0.6		l.				_			
Electrical lifespan AC-15 230 V / 0.5 A Operations x 10 ⁶ 0.4 0.4 - 0.4 0.4 0.4 230 V / 1.0 A Operations x 10 ⁶ 0.6 0.6 - 0.6 0.6 0.6		·e							
AC-15 230 V / 0.5 A Operations x 10 ⁶ 0.4 0.4 - 0.4 0.4 0.4 0.4 230 V / 1.0 A Operations x 10 ⁶ 0.6 0.6 - 0.6 0.6 0.6		·e			,, <u>-</u>				
230 V / 0.5 A Operations x 106 0.4 0.4 - 0.4 0.4 0.4 230 V / 1.0 A Operations x 106 0.6 0.6 - 0.6 0.6 0.6									
230 V / 1.0 A Operations x 10 ⁶ 0.6 0.6 - 0.6 0.6 0.6		Operations	x 10 ⁶	0.4	0.4	_	0.4	0.4	0.4
		•				_			
anto at travel dispusar	Contact travel diagram	эрогилопо	X 10	0.0	5.0		0.0	0.0	5.0

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