

# PUSHBUTTONS & INDICATORS



## 22mm Pilot Devices

### CSW Series 22mm Operators



#### Features:

- 12 operator types available, including illuminated and non-illuminated pushbuttons, mushrooms, and selector switches
- UL Type 4X, IP66 rated
- Heavy Duty glass-filled polymer construction
- Solar protection impregnated in material (non-illuminated models)

**Non-illuminated Pushbuttons**

**Illuminated Pushbuttons**

The CSW Series Pilot Devices are sold as individual components allowing for countless combinations that best fit your application. In order to build a complete pilot device assembly:

- 1 Operators**  
Select an operator device
- 2 Contact Blocks**  
Select a contact block
- 3 Lamp Blocks**  
Select a lamp block (if required)
- 4 Bulbs & Access.**  
Select any needed accessories

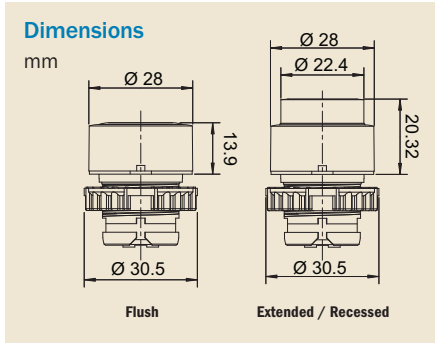
## Operators



### Momentary Pushbuttons

#### Features:

- 22mm Momentary Operators
- UL Type 4X, IP66 Rated
- Includes locking ring and 3-position Snap on Flange for a Fast Installation and Removal
- Non-illuminated accommodates up to 6 stackable contact blocks (sold separately)
- Illuminated accommodates up to 6 stackable contact blocks + 1 lamp block (sold separately)

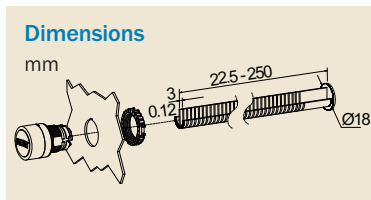
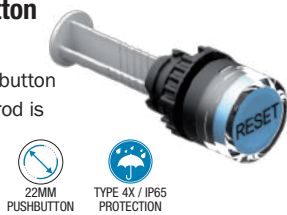


Part Number	Price	Color	Description
CSW-BF0F	\$3.50	White	Non-illuminated Flush
CSW-BF1F	\$3.50	Red	
CSW-BF2F	\$3.50	Green	
CSW-BF3F	\$3.50	Yellow	
CSW-BF4F	\$3.50	Blue	
CSW-BF5F	\$3.50	Black	Non-illuminated Extended
CSW-BS1F	\$4.50	Red	
CSW-BS2F	\$4.50	Green	Illuminated Flush
CSW-BF10F	\$5.50	White	
CSW-BF11F	\$5.50	Red	
CSW-BF12F	\$5.50	Green	
CSW-BF13F	\$5.50	Yellow	
CSW-BF14F	\$5.50	Blue	
CSW-BS10F	\$5.50	White	
CSW-BS11F	\$5.50	Red	
CSW-BS12F	\$5.50	Green	
CSW-BS13F	\$5.50	Yellow	
CSW-BS14F	\$5.50	Blue	Illuminated Extended
CSW-BGA0F	\$3.50	White	
CSW-BGA1F	\$3.50	Red	
CSW-BGA2F	\$3.50	Green	
CSW-BGA3F	\$3.50	Yellow	
CSW-BGA4F	\$3.50	Blue	Non-illuminated Recessed
CSW-BGA5F	\$3.50	Black	

### 22mm Reset Pushbutton

#### Features:

- Mechanical reset pushbutton
- Threaded 7 in. plastic rod is easily cut to length
- UL Type 4X, IP65



Part Number	Price	Description	Color
CSW-BHF437	\$7	Flush, Engraved Reset pushbutton, 22.5 to 250mm	Blue

### 22mm Communication Interfaces

#### Features:

- Provides through-the-door communication with equipment inside
- Ensures safety of the operator
- Fits through a 22mm pushbutton hole
- UL Type 1, 2, 3R, 4, 4X, 12



Part Number	Price	Description
PD22-USBAA	\$23.25	USB Communication Interface, A/A female connection, UL Type 4X
PD22-RJ45	\$23.25	RJ45 Communication Interface, Female/Female connection, UL Type 4X



# Momentary Operators

## Multifunction Momentary Pushbutton



### Features:

- Two or Three Pushbutton Momentary Operator
- UL Type 4X/IP66
- Includes locking ring and 3-position Snap on Flange for a Fast Installation and Removal
- Accommodates up to 4 stackable contact blocks for Double Pushbuttons, 4 stackable contact blocks + 1 lamp block for Illuminated Double Pushbuttons, and 7 stackable contact blocks for Triple Pushbuttons (sold separately)
- High Contrast pushbuttons ideal for colorblind machine operators

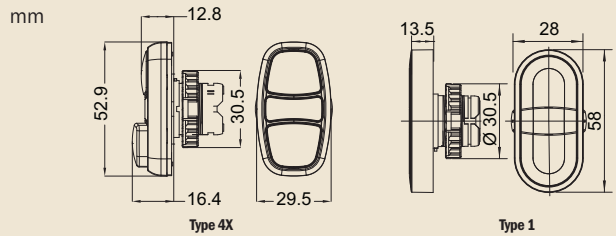
## Type 4X/IP66 Multi-function Momentary Pushbutton

Part Number	Price	Top	Middle	Bottom
<b>Double Pushbuttons</b>				
CSW2-BDF21IOF	\$9	Flush Green "I"	N/A	Flush Red "O"
CSW2-BDF21SSSF	\$9	Flush Green "START"		Flush Red "STOP"
CSW2-BDS21IOF	\$9	Flush Green "I"		Extended Red "O"
CSW2-BDS21SSSF	\$9	Flush Green "START"		Extended Red "STOP"
<b>Double Pushbuttons High Contrast</b>				
CSW2-BDF55PNF	\$9	Flush Black "+"	N/A	Flush Black "-"
CSW2-BDF55FRF	\$9	Flush Black "↑"		Flush Black "↓"
CSW2-BDS05IOF	\$9	Flush White "I"		Extended Black "O"
CSW2-BDS05SSSF	\$9	Flush White "START"		Extended Black "STOP"
<b>Double Pushbuttons /w Center Illumination Lens</b>				
CSW2-BDF21IOF	\$9	Flush Green "I"	Illumination	Flush Red "O"
CSW2-BDF21SSSF	\$9	Flush Green "START"		Flush Red "STOP"
CSW2-BDSI21IOF	\$9	Flush Green "I"		Extended Red "O"
CSW2-BDSI21SSSF	\$9	Flush Green "START"		Extended Red "STOP"
<b>Triple Pushbutton</b>				
CSW2-BTF241IORF	\$10	Flush Green "I"	Extended Blue "RESET"	Flush Red "O"
CSW2-BTS241IORF	\$10	Flush Green "I"	Extended Blue "RESET"	Extended Red "O"

## Type 1/IP40 Multi-function Momentary Pushbutton

Part Number	Price	Top	Middle	Bottom
<b>Double Pushbutton Type 1</b>				
CSW-BDF	\$7.50	Flush Green "I"	Illumination	Flush Red "O"
CSW-APBD	\$2.00	Protective cover for Type 4X/IP66 Rating, 1pc		

### Dimensions



## EN418 Emergency Stop Pushbuttons w/ Latch (Maintained)

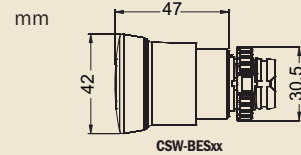


### Features:

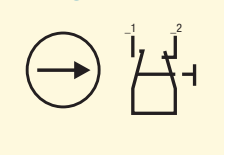
- 42mm E-Stop Latching Head, EN418 Compliant
- For use with Self-Monitoring Contact Block (sold separately)
- UL Type 4X, IP66 Rated
- Snap on Flange for a Fast Installation and Removal
- Includes 3-position mounting flange and locking ring
- BCM01F-CSW Self Monitoring contact block provides greater reliability for EN418 E-stop Pushbuttons

Part Number	Price	Description	Color
CSW-BESGF	\$9	Twist-to-Release	Red
CSW-BESPF	\$9	Pull-to-Release	Red
CSW-BESYF	\$25	Key Release	Red
APEG	\$6	E-stop Protective Shroud	Yellow
BCM01F-CSW	\$14	Self Monitoring Contact Block, 1 N.C.	Yellow

### Dimensions



### Wiring

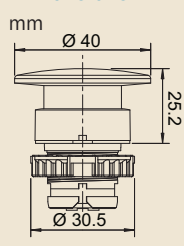




## Mushroom Pushbuttons (Momentary)



### Dimensions



### Features:

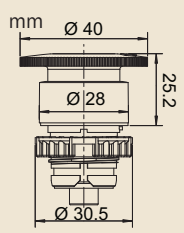
- 40mm Mushroom Momentary Head
- UL Type 4X, IP66 Rated
- Includes locking ring and 3-position Snap on Flange for a Fast Installation and Removal
- Non-illuminated accommodates up to 6 stackable contact blocks (sold separately)
- Illuminated accommodates up to 6 stackable contact blocks plus 1 lamp block (sold separately)

Part Number	Price	Color	Description
CSW-BC1F	\$6	Red	Non-illuminated
CSW-BC2F	\$6	Green	
CSW-BC10F	\$5	White	
CSW-BC11F	\$5	Red	Illuminated
CSW-BC12F	\$5	Green	
CSW-BC13F	\$5	Yellow	
CSW-BC14F	\$5	Blue	

## Emergency Stop Pushbuttons (Maintained)



### Dimensions



### Features:

- 40mm Emergency Stop Latching Head
- UL Type 4X, IP66 Rated
- Includes locking ring and 3-position Snap on Flange for a Fast Installation and Removal
- Accommodates up to 6 stackable contact blocks (sold separately)

Part Number	Price	Description	Color
CSW-BEGF	\$7.50	Twist-to-Release	Red
CSW-BEYF	\$23	Key Release	Red
APEG	\$6	E-stop Protective Shroud	Yellow

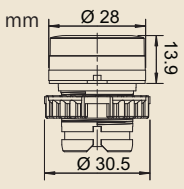
## Indicator Lights

### Features:

- 22mm Indicators
- UL Type 4X, IP66 Rated
- Includes locking ring and Snap on Flange for a Fast Installation and Removal
- Accommodates 1 lamp block (sold separately)



### Dimensions



Part Number	Price	Color
CSW-SD0F	\$4.50	White
CSW-SD1F	\$4.50	Red
CSW-SD2F	\$4.50	Green
CSW-SD3F	\$4.50	Yellow
CSW-SD4F	\$4.50	Blue

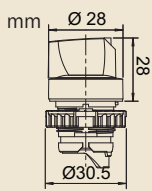
## Selector Switches

### Features:

- 22mm 2-position and 3-position Selector Switches with knob, lever, or keyed operator
- UL Type 4X, IP66 Rated
- Includes 3-position mounting flange and locking ring
- Non-illuminated accommodates up to 6 stackable contact blocks (sold separately)



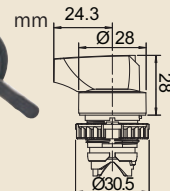
### Dimensions



Knob



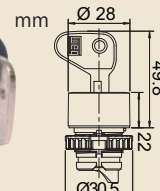
### Dimensions



Lever



### Dimensions



Keyed



Description	Knob Operator	Price	Lever Operator	Price	Keyed Operator	Price
2-position, 45° maintained	CSW-CK2F45F	\$7.50	CSW-CA2F45F	\$7.50	CSW-CY2F45F	\$22
2-position, 90° maintained	CSW-CK2F90F	\$7.50	CSW-CA2F90F	\$7.50	-	-
2-position, 45° spring return to center	CSW-CK2R45F	\$8	CSW-CA2R45F	\$9	CSW-CY2R45F	\$24
2-position, 90° spring return to center	CSW-CK2R90F	\$8	CSW-CA2R90F	\$9	-	-
3-position, maintained	CSW-CK3F45F	\$7.50	CSW-CA3F45F	\$8	CSW-CY3F45F	\$22
3-position, left/right spring return to center	CSW-CK3R45F	\$8	CSW-CA3R45F	\$9	CSW-CY3R45F	\$24
3-position, right spring return to center	CSW-CK3RD45F	\$8	CSW-CA3RD45F	\$9	CSW-CY3RD45F	\$24
3-position, left spring return to center	CSW-CK3RE45F	\$8	CSW-CA3RE45F	\$9	-	-



## Illuminated Selector Switches

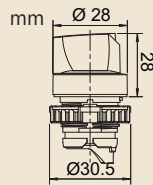
### Features:

- 22mm 2-position and 3-position Selector Switches with knob, lever, or keyed operator
- UL Type 4X, IP66 Rated
- Includes 3-position mounting flange and locking ring
- Illuminated accommodates up to 4 stackable contact blocks plus 1 lamp block (sold separately)



CSW-CKI2F903F

### Dimensions



Part Number	Price	Operator Color	Description	
CSW-CKI2F900F	\$5.50	White	2-position, 90° maintained	
CSW-CKI2F901F	\$5.50	Red		
CSW-CKI2F902F	\$5.50	Green		
CSW-CKI2F903F	\$5.50	Yellow		
CSW-CKI2F904F	\$5.50	Blue	3-position, maintained	
CSW-CKI3F450F	\$5.50	White		
CSW-CKI3F451F	\$5.50	Red		
CSW-CKI3F452F	\$5.50	Green		
CSW-CKI3F453F	\$5.50	Yellow	3-position, left/right spring return	
CSW-CKI3F454F	\$5.50	Blue		
CSW-CKI3R450F	\$6	White		
CSW-CKI3R451F	\$6	Red		
CSW-CKI3R452F	\$6	Green		
CSW-CKI3R453F	\$6	Yellow		
CSW-CKI3R454F	\$6	Blue		

## Contact & Lamp Blocks, Bulbs, Accessories

### Contact Blocks

#### Features:

- Contact blocks can be mounted/removed individually
- Can be stacked up to 3 deep
- Four switching points with double removable bridge
- Self-cleaning silver (Ag100) contacts for maximum reliability, even at low energy levels (5mA/12V)


 BC10F-CSW  
BC01F-CSW

### LED Lamp Blocks

#### Features:

- Super-bright LEDs at industry's lowest price
- 5 colors available
- Long life expectancy
- Great performance in shock and vibration applications
- Extremely low power consumption
- High luminosity and color definition



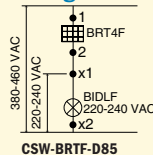
CSW-BIDLF2xxx

### Lamp Blocks & Bulbs

#### Features:

- Full voltage lamp block (requires bulb)
- 220VAC lamp block with diode/resistor
- Contact block to convert 220VAC BIDLFxD66 LED lamp block to 460VAC
- Incandescent bulbs ranging from 6V to 130V
- Neon bulb for 220V applications (for use w/ CSW-BIDF)

### Wiring



CSW-BRTF-D85

### Contact Blocks

Part Number	Price Each	Pack Qty	Pack Price	Description
BC01F-CSW	\$3.00	10	\$25	Single Contact Block, 1 N.C.
BC10F-CSW	\$3.00	10	\$25	Single Contact Block, 1 N.O.
BCA10F-CSW	\$4.00	-	-	Single Contact Block, 1 N.O.( Early Make)
BCR01F-CSW	\$4.00	-	-	Single Contact Block, 1 N.C. (Delayed Break)
BR-3PF-CSW	\$4.50	-	-	Push-ON / Push-OFF adapter (use with BCA10F or BC01F contact blocks, only)

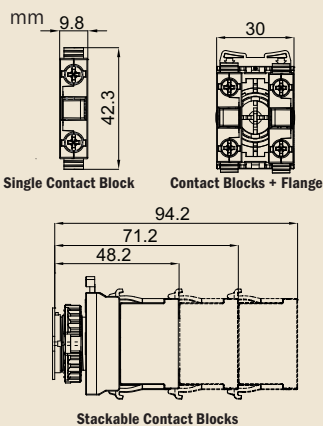
### Long Life LED Lamp Blocks (bulb included)

Input	Price	White (CSW-)	Red (CSW-)	Green (CSW-)	Yellow (CSW-)	Blue (CSW-)
12V AC/DC	\$7.50	BIDLF0E25	BIDLF1E25	BIDLF2E25	BIDLF3E25	BIDLF4E25
24V AC/DC	\$8.00	BIDLF0E26	BIDLF1E26	BIDLF2E26	BIDLF3E26	BIDLF4E26
48V AC/DC	\$7.50	BIDLF0E27	BIDLF1E27	BIDLF2E27	BIDLF3E27	BIDLF4E27
110V-130V AC/DC	\$7.50	BIDLF0E10	BIDLF1E10	BIDLF2E10	BIDLF3E10	BIDLF4E10
220V AC	\$7.50	BIDLF0D66	BIDLF1D66	BIDLF2D66	BIDLF3D66	BIDLF4D66

### Lamp Blocks and Bulbs

Part Number	Price	Description
CSW-BIDF	\$3	Lamp Block, full voltage, also requires incandescent or neon bulb
CSW-BIRDFD66	\$13	Lamp Block, with diode/resistor for 220VAC applications, includes 130V bulb
CSW-BRT4F	\$5	Connect to CSW-BIDLFxD66 LED lamp block to convert from 220 - 240VAC to 380 - 460VAC
CSW-L6VI	\$5	Incandescent Bulb, 6V AC/DC
CSW-L12VI	\$2	Incandescent Bulb, 12V AC/DC
CSW-L24VI	\$2	Incandescent Bulb, 24V AC/DC
CSW-L48VI	\$5	Incandescent Bulb, 48V AC/DC
CSW-L130VI	\$2	Incandescent Bulb, 130V AC/DC
CSW-L220VI	\$5	NEON Bulb, for 220V AC/DC applications, also requires CSW-BIDF

### Dimensions

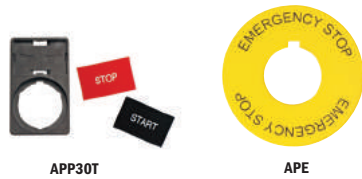


## General Specifications

Standards	IEC/EN 60947-5-1, VDE 0660, CENELEC EN50007, ISO 13850 (EN 418), IEC 60947-5-5, UL508, UL50
Rated Insulation Voltage	690VAC/DC
Rated Impulse Voltage	4kV
Degree of Protection	UL Type 1, 3R, 12, 4, 4X, IP66
Terminals	IP2X
Contact Ratings	
Rated Thermal Current	10A
AC-15	24V: 10A, 48V: 10A, 60V: 10A 110V: 6A, 220V: 3A, 380V: 2A 500V: 1.5A, 600V: 1.2A
DC-13	24V: 2.5A, 48V: 1.4A, 60V: 1A 110V: 0.55A, 220V: 0.27A 300V: 0.2A, 600V: 0.1A
Electrical Data - UL Ratings	
AC / Heavy Duty	A600
DC / Heavy Duty	Q600
Contact Resistance	≤25 mΩ (IEC/EN 60255)
Ambient Temperature	-25° to 70°C (-13° to 158°F)
Shock Resistance	100g; no damage for all components. (MIL202 B method 202 A)
Vibration Resistance	16g; 40-500Hz with 0.75mm (peak to peak) (IEC/EN 60068-2-6)
Mechanical Endurance	Pushbuttons: 3 million ops Selector switches: 1 million ops Emergency stop: 300k ops
Number of Conductors	Min: 1 x 20AWG Max: 2 x 12AWG



### CSW Series Legend Plates

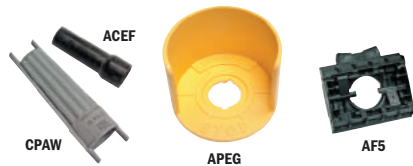


#### Features:

- Removable legend plate w/ black holder
- Laser engraved for maximum durability
- UV Stable Color
- Notched to fit operator keyway

Part Number	Price	Description
APP30-00	\$2	Blank red/black legend plate w/ holder
APP30T	\$2	Clear legend plate w/ holder
APP30-01	\$2	"CLOSE" legend plate w/ holder
APP30-02	\$2	"DOWN" legend plate w/ holder
APP30-03	\$2	"EMERGENCY STOP" legend plate / hold-
APP30-04	\$2	"FORWARD" legend plate w/ holder
APP30-05	\$2	"JOG" legend plate w/ holder
APP30-06	\$2	"JOG FORWARD" legend plate w/ holder
APP30-07	\$2	"JOG REVERSE" legend plate w/ holder
APP30-08	\$2	"LOWER" legend plate w/ holder
APP30-09	\$2	"OFF" legend plate w/ holder
APP30-10	\$2	"ON" legend plate w/ holder
APP30-11	\$2	"OPEN" legend plate w/ holder
APP30-12	\$2	"POWER ON" legend plate w/ holder
APP30-13	\$2	"RAISE" legend plate w/ holder
APP30-14	\$2	"RESET" legend plate w/ holder
APP30-15	\$2	"REVERSE" legend plate w/ holder
APP30-16	\$2	"RUN" legend plate w/ holder
APP30-17	\$2	"START" legend plate w/ holder
APP30-18	\$2	"STOP" legend plate w/ holder
APP30-19	\$2	"UP" legend plate w/ holder
APP30-20	\$2	"FOR REV" legend plate w/ holder
APP30-21	\$2	"HAND AUTO" legend plate w/ holder
APP30-22	\$2	"JOG RUN" legend plate w/ holder
APP30-23	\$2	"MAN AUTO" legend plate w/ holder
APP30-24	\$2	"OFF ON" legend plate w/ holder
APP30-25	\$2	"OPEN CLOSE" legend plate w/ holder
APP30-26	\$2	"RUN JOG" legend plate w/ holder
APP30-27	\$2	"START STOP" legend plate w/ holder
APP30-28	\$2	"UP DOWN" legend plate w/ holder
APP30-29	\$2	"AUTO OFF HAND" leg. plate w/ holder
APP30-30	\$2	"FOR OFF REV" legend plate w/ holder
APP30-31	\$2	"HAND OFF AUTO" leg. plate w/ holder
APP30-32	\$2	"MAN OFF AUTO" legend plate w/ holder
APP30-33	\$2	"OPEN OFF AUTO" leg. plate w/ holder
APP30-34	\$2	"OPEN OFF CLOSE" leg. plate w/ holder
APP30-35	\$2	"UP OFF DOWN" legend plate w/ holder
APP30-36	\$2	"ON / OFF" legend plate w/ holder
APP30-37	\$2	"OPEN / CLOSE" legend plate w/ holder
APP30-38	\$2	"UP / DOWN" legend plate w/ holder
APP30-39	\$2	"STOP / RESET" legend plate w/ holder
APP30-40	\$2	"PUMP 1" legend plate w/ holder
APP30-41	\$2	"PUMP 2" legend plate w/ holder
APP30-42	\$2	"MOTOR 1" legend plate w/ holder
APP30-43	\$2	"MOTOR 2" legend plate w/ holder
APP30-44	\$2	"FAULT" legend plate w/ holder
APE	\$2.75	"EMERGENCY-STOP", 60mm dia., Yellow
AP30	\$0.75	Blank red/black (legend plate only)
AP30T	\$0.75	Clear legend plate (legend plate only)

### Accessories



Part Number	Price	Description
ACEF	\$3	Lamp Extractor
AF3F	\$2	3 Position Flange
AF5F	\$2.50	5-Position Flange
ALSD0	\$3	Lens for Pilot Lights, Clear
ALSD1	\$3	Lens for Pilot Lights, Red
ALSD2	\$3	Lens for Pilot Lights, Green
ALSD3	\$3	Lens for Pilot Lights, Yellow
ALSD4	\$3	Lens for Pilot Lights, Blue
APBF	\$4	Protective Cover for Flush Operator
APEG	\$6	E-stop Protective Shroud
APN	\$1	Blank ID plate
AR30	\$2	30mm to 22mm adapter
ATR	\$3	Hole Plug
CPAW	\$14	Mounting Wrench

### 22mm Potentiometer, 10kΩ

#### NEW Features:



- UL Type 1, 2, 3R, 4, 4X, 12, 12K, IP66, IP67, IP69K
- Includes scale legend plate
- Convenient screw terminals
- Rated Insulation 250V, 1W max
- -13° to 158°F (-25° to 70°C)



Part Number	Price	Description
PD22-POT2P5K	\$30.65	22mm potentiometer, 2.5kΩ
PD22-POT5POK	\$30.65	22mm potentiometer, 5kΩ
PD22-POT010K	\$30.65	22mm potentiometer, 10kΩ

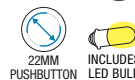
### Electrical Specifications

Standards	IEC/EN60947-5-1 and UL508
Terminals	IP20
Mechanical Endurance	25,000 Operations
Operating Temperature	-13° to 158°F (-25° to 70°C)
Number of Conductors	Min: 1 x 24AWG Max: 1 x 14AWG

## CHNT MONOLITHIC LEDS

#### Features:

- Super-bright LED illumination
- IP65 protection
- 22mm plastic body
- UL recognized
- CE approved



Part Number	Price	Pack Qty	Pack Price	Voltage	Color
FMD16-DS12V-0	\$5	10	\$45	12V AC/DC	White
FMD16-DS12V-1	\$5	10	\$45	12V AC/DC	Red
FMD16-DS12V-2	\$5	10	\$45	12V AC/DC	Green
FMD16-DS12V-3	\$5	10	\$45	12V AC/DC	Yellow
FMD16-DS12V-4	\$5	10	\$45	12V AC/DC	Blue
FMD16-DS24V-0	\$5	10	\$45	24V AC/DC	White
FMD16-DS24V-1	\$5	10	\$45	24V AC/DC	Red
FMD16-DS24V-2	\$5	10	\$45	24V AC/DC	Green
FMD16-DS24V-3	\$5	10	\$45	24V AC/DC	Yellow
FMD16-DS24V-4	\$5	10	\$45	24V AC/DC	Blue
FMD16-DS110V-0	\$5	10	\$45	110V AC	White
FMD16-DS110V-1	\$5	10	\$45	110V AC	Red
FMD16-DS110V-2	\$5	10	\$45	110V AC	Green
FMD16-DS110V-3	\$5	10	\$45	110V AC	Yellow
FMD16-DS110V-4	\$5	10	\$45	110V AC	Blue
FMD16-DS220V-0	\$5	10	\$45	220V AC	White
FMD16-DS220V-1	\$5	10	\$45	220V AC	Red
FMD16-DS220V-2	\$5	10	\$45	220V AC	Green
FMD16-DS220V-3	\$5	10	\$45	220V AC	Yellow
FMD16-DS220V-4	\$5	10	\$45	220V AC	Blue

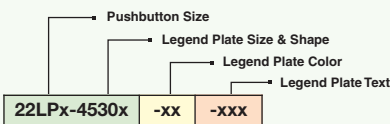
### Electrical Specifications

Standards	IEC/EN60947-5-1, UL508
Operational Voltage	12-220 VAC/DC, 110-220VAC
Operational Current	le ≤ 20mA
Operational Humidity	45% - 85% (No condensation)
Degree of Protection	IP65
Service Life	≥30000 hrs
Brightness	≥ 60 cd/m2
Ambient Temperature	23° to 104°F (-5° to 40°C); average temp during 24 hrs couldn't exceed 95°F(35°C)





## Build Your Part Number:



## Size & Shape

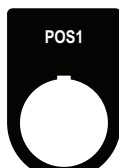
Legend Plate Size & Shape		
Part Number	Price	Description
22LP1-4530C	\$1.75	1-position, 45 x 30mm, Curved Edges
22LP2-4530C	\$1.75	2-position, 45 x 30mm, Curved Edges
22LP3-4530C	\$1.75	3-position, 45 x 30mm, Curved Edges
22LP1-4530S	\$1.75	1-position, 45 x 30mm, Sharp Edges
22LP2-4530S	\$1.75	2-position, 45 x 30mm, Sharp Edges
22LP3-4530S	\$1.75	3-position, 45 x 30mm, Sharp Edges

## Color

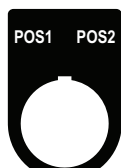
Legend Plate Color		
Suffix	Face Color	Letter Color
-BK	Black	White
-RD	Red	White
-BL	Blue	White
-GN	Green	White
-YW	Yellow	Black
-WT	White	Black

## Features:

- Microsurfaced Impact Acrylic
- Laser engraved for maximum durability
- UL94 HB Flammability Rating
- 3M™ High Performance 200MP Adhesive Backing w/ Polycoated Kraft Paper Liner
- UV Stable Color



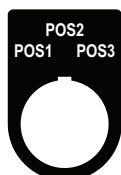
1-position pushbutton



2-position selector



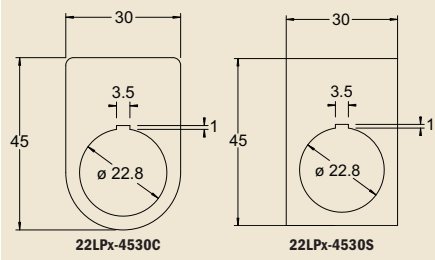
2-position pushbutton



3-position selector

## Dimensions

mm



## 1-position Pushbuttons & Lights

Suffix	POS 1	Suffix	POS 1	Suffix	POS 1	Suffix	POS 1	Suffix	POS 1	Suffix	POS 1
101	AUTO	118*	EMERGENCY STOP	135	HAND START	152*	MOTOR RUNNING	169	PURGE	186	SLOWER
102	BLOWER	119	ENABLE	136	HAND STOP	153*	MOTOR START	170	PUSH TO RESET	187	SLOW SPEED
103	BRAKE	120	ENTER	137	HEAT	154*	MOTOR STOP	171	PUSH TO STOP	188	SOFT START
104	BYPASS ON	121	ERROR	138	HIGH	155*	MOTOR	172	PUSH TO TEST	189	SOFT STOP
105	BYPASS START	122	EXHAUST	139	IN	156	OFF	173	RAISE	190	SPEED
106	BYPASS STOP	123	FAULT	140	INCH	157	ON	174	READY	191	START
107	CLAMP	124	FAST	141	INCREASE	158	OPEN	175	RESET	192	START CYCLE
108	CLOSE	125	FASTER	142	INSPECT	159	OUT	176	RETURN	193	STOP
109	CYCLE START	126	FEED START	143	JOG	160	OVERLOAD	177	REVERSE	194	STOP/RESET
110	CYCLE STOP	127	FEED STOP	144	JOG FORWARD	161*	OVERLOAD TRIP	178	RIGHT	195	TEST
111	DECREASE	128	FEEDER OFF	145	JOG REVERSE	162*	OVERLOAD RESET	179	ROTATE CW	196	TRIP
112	DRIVE ON	129	FEEDER ON	146	LEFT	163	POWER OFF	180	ROTATE CCW	197	UNCLAMP
113	DRIVE START	130	FORWARD	147	LOW	164	POWER ON	181	RUN	198	UP
114	DRIVE STOP	131	FULL SPEED	148	LOW SPEED	165	PULL TO START	182	RUNNING	-	-
115	DOWN	132	HAND	149	LOWER	166	PULL TO RESET	183	SAFE	-	-
116	EMERGENCY	133	HAND OFF	150	MANUAL	167	PUMP START	184	SETUP	-	-
117*	EMERGENCY OFF	134	HAND ON	151	MOTOR RUN	168	PUMP STOP	185	SLOW	-	-

\*Text will be divided between two lines

## 2-position Selector

Suffix	POS 1	POS 2	Suffix	POS 1	POS 2	Suffix	POS 1	POS 2	Suffix	POS 1	POS 2
201	AUTO	HAND	209	JOG	RUN	217	ON	OFF	225	SLOW	FAST
202	AUTO	MANUAL	210	LEFT	RIGHT	218	OPEN	CLOSE	226	START	JOG
203	DOWN	UP	211	LOCAL	REMOTE	219	RAISE	LOWER	227	START	STOP
204	FAST	SLOW	212	LOW	HIGH	220	REV	FOR	228	STOP	RESET
205	FOR	REV	213	LOWER	RAISE	221	RUN	JOG	229	STOP	START
206	HAND	AUTO	214	MAN	AUTO	222	RUN	STOP	230	UP	DOWN
207	HIGH	LOW	215	MANUAL	AUTO	223	SETUP	RUN	-	-	-
208	INCH	RUN	216	OFF	ON	224	SETUP	SERVICE	-	-	-

## 2-position Pushbutton

Suffix	POS 1	POS 2	Suffix	POS 1	POS 2	Suffix	POS 1	POS 2
251	PULL START	PUSH STOP	254	FORWARD	REVERSE	257	SUMMER	WINTER
252	PULL ON	PUSH OFF	255	REVERSE	FORWARD	258	PULL TO START	PUSH TO STOP
253	PUSH ON	PULL OFF	256	SEQUENCE	TEST	-	-	-

## 3-position Selector

Suffix	POS 1	POS 2	POS 3	Suffix	POS 1	POS 2	POS 3	Suffix	POS 1	POS 2	POS 3	Suffix	POS 1	POS 2	POS 3
301	AUTO	OFF	HAND	309	FOR	OFF	REV	317	LOW	OFF	HIGH	325	OPEN	OFF	CLOSE
302	AUTO	MAN	OFF	310	FOR	STOP	REV	318	LOW	OFF	RAISE	326	RAISE	OFF	LOWER
303	AUTO	OFF	MAN	311	HAND	OFF	AUTO	319	MAN	OFF	AUTO	327	SLOW	OFF	FAST
304	BYPASS	OFF	DRIVE	312	HIGH	OFF	LOW	320	MANUAL	OFF	AUTO	328	SLOW	STOP	FAST
305	BYPASS	OFF	SOFT START	313	JOG	OFF	AUTO	321	OFF	RUN	START	329	SLOW	OFF	START
306	DOWN	OFF	UP	314	JOG	OFF	RUN	322	OFF	START	RUN	330	UP	OFF	DOWN
307	FAST	OFF	SLOW	315	JOG	STOP	RUN	323	OFF	1	2	331	1	OFF	2
308	FOR	AUTO	REV	316	LOCAL	OFF	REMOTE	324	ON	OFF	AUTO	332	1	2	3

# 22mm Pushbutton Stations

## Common Configurations in Kits or Assemblies



22PBA1-NSS-100-AS



22PBA2-N4P-200-AS



22PBA3-N4P-300-AS



22PBA4-N12-400-AS

**KITS FROM \$33**

### Kits include:

- Quality UL Type 4X operators
- Contact block(s)
- Legend plates
- All components are UL Listed
- Choice of enclosure type:
  - UL Type 4X plastic enclosures
  - UL Type 12 steel enclosures
  - UL Type 4X 304 stainless steel enclosures
- Fully assembled units also available

### Enclosure Options

Part Number	Description	Plastic (-N4P)		Steel (-N12)		304 Stainless Steel (-NSS)	
		DIM (in)	Price	DIM (in)	Price	DIM (in)	Price
22PBA1	One 22mm hole	4.33x3.15x2.96	\$24	3.5x3.25x2.75	\$39	3.5x3.25x2.75	\$96
22PBA2	Two 22mm holes	5.12x3.15x3.35	\$29	5.75x3.25x2.75	\$45	5.75x3.25x2.75	\$120
22PBA3	Three 22mm holes	7.09x3.15x3.35	\$31	8x3.25x2.75	\$50	8x3.25x2.75	\$130
22PBA4	Four 22mm holes	9.84x3.15x3.35	\$33	10.25x3.25x2.75	\$56	10.25x3.25x2.75	\$147

### Operator Options

Operator Options (Add applicable suffixes to part number for ordering)			
Code	Adder	Description	Contacts
<b>One Hole Enclosures</b>			
-100	\$14	EMERGENCY STOP; 40mm red twist to release mushroom	1NC
-101	\$9	START; flush green pushbutton	1NO
-102	\$10	STOP; extended red pushbutton	1NC
-103	\$13	OFF/ON; 2-position selector switch	1NO
-104	\$16	FWD/REV; 2-position selector switch	2NO
-105	\$16	FWD/OFF/REV; 3-position selector switch	2NO
-106	\$16	HAND/OFF/AUTO; 3-position selector switch	2NO
-107	\$13	JOG; 2-position spring return selector switch	1NO
<b>Two Hole Enclosures</b>			
-200	\$18	START; flush green pushbutton / STOP; extended red pushbutton	1NO/1NC
-201	\$18	OFF; flush black pushbutton / ON; flush black pushbutton	1NO/1NC
-202	\$21	FWD; flush black pushbutton / REV; flush black pushbutton	2NO/2NC
-203	\$21	UP; flush black pushbutton / DOWN; flush black pushbutton	2NO/2NC
-204	\$21	OPEN; flush black pushbutton / CLOSE; flush black pushbutton	2NO/2NC
-205	\$47	OFF/ON; 2-position selector switch / one-turn 10kΩ potentiometer	1NO
-206	\$50	FWD/OFF/REV; 3-position selector switch / one-turn 10kΩ potentiometer	2NO
-207	\$23	START; flush green pushbutton / EMERGENCY STOP; 40mm red twist to release mushroom	1NO/1NC
<b>Three Hole Enclosures</b>			
-300	\$52	START; flush green pushbutton / STOP; extended red pushbutton / one-turn 10kΩ potentiometer	1NO/1NC
-301	\$31	FWD; flush black pushbutton / REV; flush black pushbutton / STOP; extended red pushbutton	2NO/1NC
-302	\$33	START; flush green pushbutton / STOP; extended red pushbutton / FWD/REV; 2-position selector switch	2NO/2NC
<b>Four Hole Enclosures</b>			
-400	\$67	START; flush green pushbutton / STOP; extended red pushbutton / FWD/REV; 2-position selector switch / one-turn 10kΩ potentiometer	2NO/2NC

### Model Explanation:

22PBA2 - N12 - 202 - AS

- Assembly Option  
Kit: 00  
Assembled: AS
- Operator Combination (see table)  
100 200 300 400  
101 201 301  
102 202 302  
103 203  
104 204  
105 205  
106 206  
107 207
- UL Type Rating  
N4P: UL Type 4X Plastic Enclosure  
N12: UL Type 12 Steel Enclosure  
NSS: UL Type 4X Stainless Enclosure
- 22mm Pushbutton Station  
22PBA1: one hole station  
22PBA2: two hole station  
22PBA3: three hole station  
22PBA4: four hole station

### Assembly Options

Assembly Options (Add applicable suffixes to part number for ordering)		
Code	Adder	Description
-00	N/C	No additional charge for unassembled kit
-AS	\$10	Assembly adder for one hole enclosure
	\$15	Assembly adder for two hole enclosure
	\$20	Assembly adder for three hole enclosure
	\$25	Assembly adder for four hole enclosure

### Electrical Specifications

Standards	IEC/EN 60947-5-1, VDE 0660, CENELEC EN50007, NFC63140, UL508, UL50
Rated Insul. Voltage	660VAC / 660VDC
Rated Impulse	2.5kV (IEC 60947-5-1)
Degree of Protection	UL Type 1, 3R, 12, 4, 4X, IP66
Terminals	IP20
<b>Contact Ratings - UL Ratings</b>	
Rated Thermal	10A
AC-15 (IEC), A600 (UL)	24V: 10A, 48V: 10A, 60V: 10A, 110V: 6A, 230V: 3A, 400V: 2A, 500V: 1.5A, 600V: 1.2A
DC-13 (IEC), Q600 (UL)	24V: 2.5A, 48V: 1.4A, 60V: 1A, 110V: 0.55A, 230V: 0.27A, 400V: 0.2A, 600V: 0.1A
<b>Electrical Data</b>	
Ambient Temperature	-25 °C to 70 °C (-13 °F to 158 °F)
Number of Conductors	Min: 1 x 20AWG Max: 2 x 12AWG

