

Altech Corporation

Since 1984, Altech Corporation has grown to become a leading supplier of automation and industrial control components. Headquartered in Flemington, NJ, Altech has an experienced staff of engineering, manufacturing and sales personnel to provide the highest quality products with superior service. This is the Altech Commitment!

Altech 22 and 30mm Push Buttons offer ideal cost-effective solutions for control circuits utilizing both direct and remote management applications. Ease of assembly has been engineered into the design; the only tool necessary for installation is a screwdriver.

- LED Indicating Devices
- Pilot Lights
- Push Button Stations
- Push Button Enclosures
- UL Recognized
- Custom Push Button Assemblies
- All Very Competitively Priced

Our well trained technical experts welcome the opportunity to answer your technical questions and provide solutions to your automation and control needs. Give us a call or visit www.altechcorp.com.

Quality Commitment

Altech's control components meet diverse national and international standards such as UL, NEC, CSA, IEC, VDE and more. Altech provides superior customer service and delivery through Total Quality Management and Continuous Process Improvement. Altech is ISO 9001 approved. We perform these services with honesty and integrity and are committed to achieve these goals.

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22mm Metal Push Buttons



Control and Signalling devices Ø 22.5mm

This range of Ø 22.5mm push buttons, selector switches, illuminated switches, illuminated selector switches and pilot lights have been designed to provide the following features:

- Economy of space
- Self-wiping contacts
- Safe operation
- Simple to mount (screw driver is all that is required)
- Fixing method unaffected by excessive vibration-unit does not loosen
- Protection against electric shock (unit grounded)
- Aesthetically pleasing
- · Heavy-duty construction
- Shrouded terminals
- Flame resistant materials
- Use of LEDs for long life and minimum maintenance

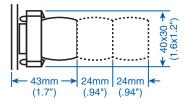
Actuators

The circular actuators have chrome plated metal bezels, and are interchangeable with different contact elements. Custom colors and finishes (black, silver satin, etc.) are available.

Contact Elements

The contact elements are double break and have self-wiping contacts. The elements are interchangeable and can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non-Illuminated actuators, whereas, 1 to 4 elements (NO or NC) can be used for illuminated actuators. Gold plated NO and NC contact elements for low voltage, low current switching circuits < 25 mA, are available.

Multiple Switch Contact Assembly



LED Illuminated Actuators and Pilot Lights

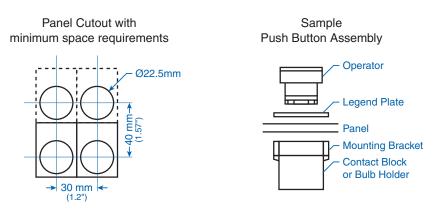
LED illuminated actuators & pilot lights are supplied with LED in bayonet cap suitable for operating at various voltages. LED bulbs with bayonet cap are constructed in the standard BA9S design.

Terminals

Contact elements and pilot lights are designed to have shrouded terminals with combination flat/phillips screws.

Mounting

These Ø 22.5 control devices can be mounted in any position in panels of 1 to 6 mm (.039 - .236 in.) thickness. We recommend minimum fixing centers of 30 x 40mm (1.2 x 1.57 inches). However, the dimensions and configuration should be decided on the basis of the application. The actuators and the lens assemblies lock on to the holding bracket using a bayonet type of fixing which enables a simple and fast assembly. The complete assembly is locked into position on the panel by two M4 pointed screws on the bracket, tightened equally from the rear. The screws should be tightened to such an extent as to pierce through the paint on the panel from inside. These screws also ensure the grounding of the unit.



22mm Non-Illuminated Metal Operators







Altech Push Buttons are available in a variety of markings, including molded arrows. Please contact Altech for further information and part numbers.

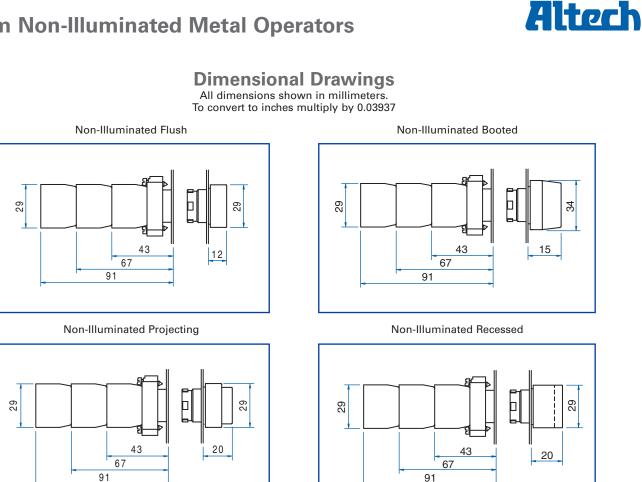
(sold separately)



- · Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- · Contact blocks are available with silver contacts or gold plated contacts
- · Self-wiping contacts

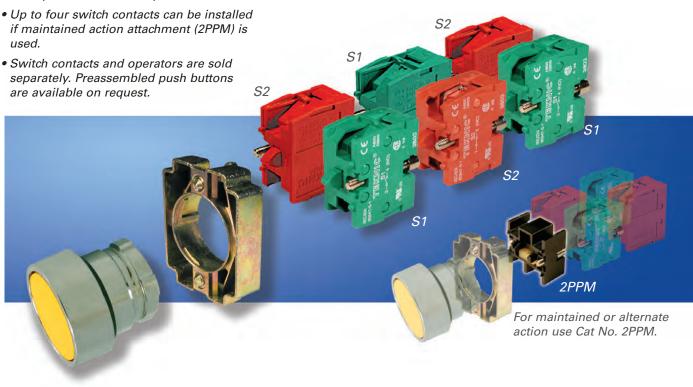
	Panel Wount	
	Normally Open Silver	S1
	Normally Closed Silver	S2
	Normally Open Gold Plated	S 3
	Normally Closed Gold Plated	S 4
	Base Mount*	
		~-
	Normally Open Silver	S5
	Normally Closed Silver	S6
	Normally Open Gold Plated	S7
	Normally Closed Gold Plated	S 8
5	* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.	





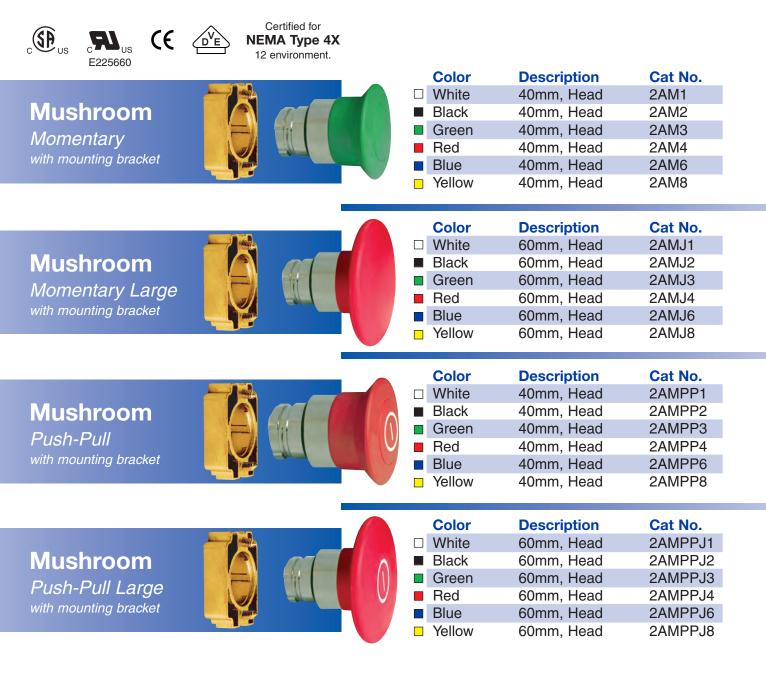
Exploded Assembly View

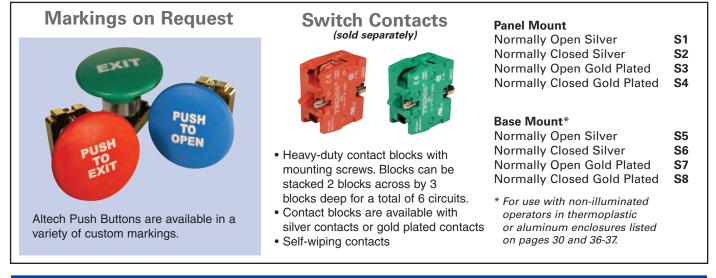
• Up to six switch contacts can be installed on any non-Illuminated operator.



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22mm Non-Illuminated Mushroom Metal Operators





8



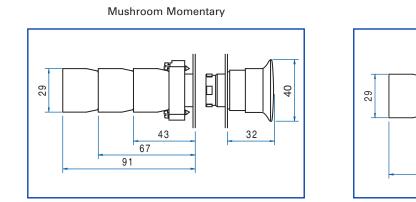
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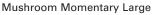
32

22mm Non-Illuminated Mushroom Metal Operators

Dimensional Drawings All dimensions shown in millimeters.

To convert to inches multiply by 0.03937



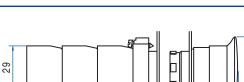


b

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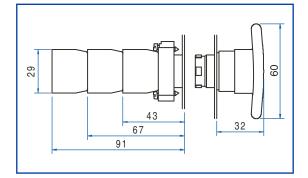
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Mushroom Push-Pull

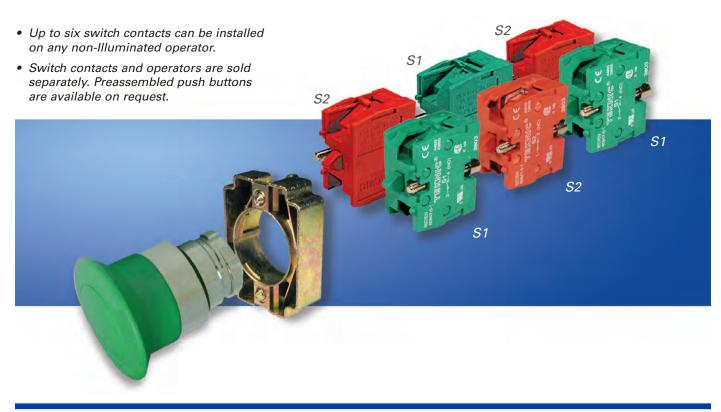
Mushroom Push-Pull Large



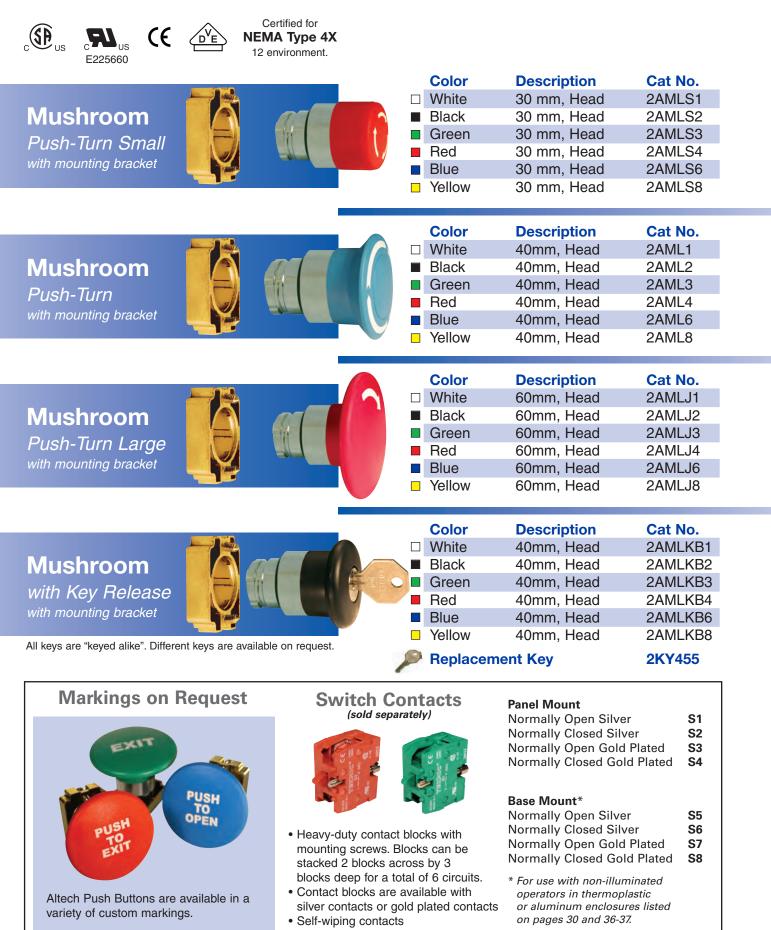
Exploded Assembly View

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22mm Non-Illuminated Mushroom Metal Operators



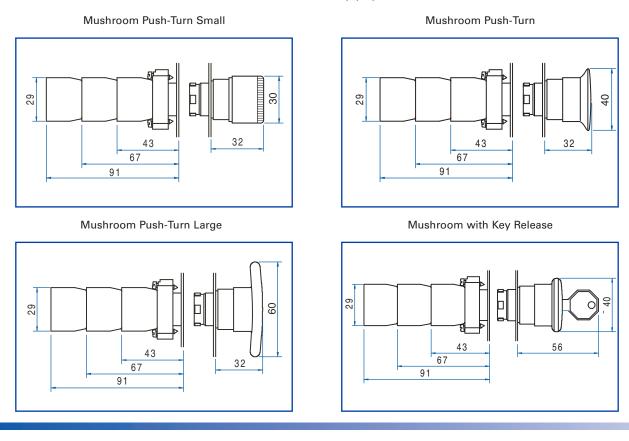
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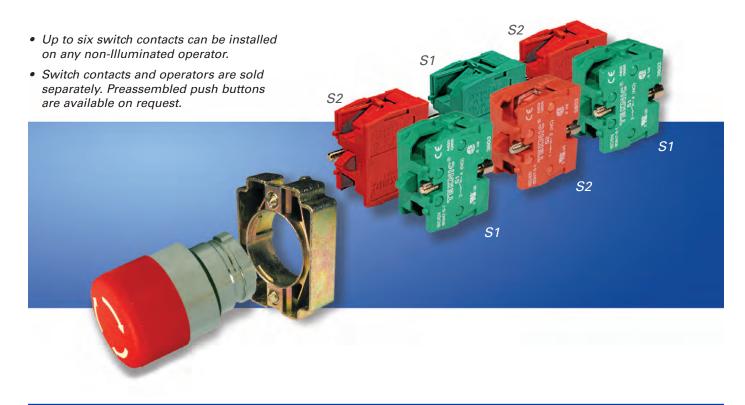
22mm Non-Illuminated Mushroom Metal Operators



To convert to inches multiply by 0.03937



Exploded Assembly View



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22mm LED Illuminated Mushroom Metal Operators







Certified for NEMA Type 4X 12 environment.

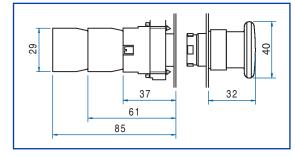


with LED bulb, bulb holder and mounting bracket

Dimensional Drawings All dimensions shown in millimeters.

To convert to inches multiply by 0.03937

Illuminated Mushroom Momentary



Switch Contacts (sold separately)



- · Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- · Contact blocks are available with silver contacts or gold plated contacts
- Self-wiping contacts

Panel Mount

Normally Open Silver	S1
Normally Closed Silver	S2
Normally Open Gold Plated	S 3
Normally Closed Gold Plated	S4

Base Mount*

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold Plated	S7
Normally Closed Gold Plated	S8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.

	Color	Description	Cat No.
_	12V AC/DC		
	White	40mm Head, 12VAC/DC	2ALM1LB-012
	Green	40mm Head, 12VAC/DC	2ALM3LB-012
	Red	40mm Head, 12VAC/DC	2ALM4LB-012
	Amber	40mm Head, 12VAC/DC	2ALM5LB-012
	Blue	40mm Head, 12VAC/DC	2ALM6LB-012
	Clear	40mm Head, 12VAC/DC	2ALM7LB-012
	Yellow	40mm Head, 12VAC/DC	2ALM8LB-012
	24V AC/DC		
	White	40mm Head, 24VAC/DC	2ALM1LB-024
	Green	40mm Head, 24VAC/DC	2ALM3LB-024
	Red	40mm Head, 24VAC/DC	2ALM4LB-024
	Amber	40mm Head, 24VAC/DC	2ALM5LB-024
	Blue	40mm Head, 24VAC/DC	2ALM6LB-024
	Clear	40mm Head, 24VAC/DC	2ALM7LB-024
	Yellow	40mm Head, 24VAC/DC	2ALM8LB-024
	48V AC/DC		
	White	40mm Head, 48VAC/DC	2ALM1LB-048
	Green	40mm Head, 48VAC/DC	2ALM3LB-048
	Red	40mm Head, 48VAC/DC	2ALM4LB-048
	Amber	40mm Head, 48VAC/DC	2ALM5LB-048
	Blue	40mm Head, 48VAC/DC	2ALM6LB-048
	Clear	40mm Head, 48VAC/DC	2ALM7LB-048
	Yellow	40mm Head, 48VAC/DC	2ALM8LB-048
	110V AC*		
	White	40mm Head, 110VAC*	2ALM1LB-110
	Green	40mm Head, 110VAC*	2ALM3LB-110
	Red	40mm Head, 110VAC*	2ALM4LB-110
	Amber	40mm Head, 110VAC*	2ALM5LB-110
	Blue	40mm Head, 110VAC*	2ALM6LB-110
	Clear	40mm Head, 110VAC*	2ALM7LB-110
	Yellow	40mm Head, 110VAC*	2ALM8LB-110
	230V AC*	· -	
	White	40mm Head, 230VAC*	2ALM1LB-230
	Green	40mm Head, 230VAC*	2ALM3LB-230
	Red	40mm Head, 230VAC*	2ALM4LB-230
	Amber	40mm Head, 230VAC*	2ALM5LB-230
	Blue	40mm Head, 230VAC*	2ALM6LB-230
	Clear	40mm Head, 230VAC*	2ALM7LB-230
	Yellow	40mm Head, 230VAC*	2ALM8LB-230

*110V DC and 230V DC version is available on request.

Exploded Assembly View

S1

S1

- Up to four switch contacts can be installed with any illuminated operators.
- Switch contacts and operators are sold separately. Preassembled push buttons are available on request. S^2

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22mm LED Illuminated Mushroom Metal Operators







us



Certified for NEMA Type 4X 12 environment.

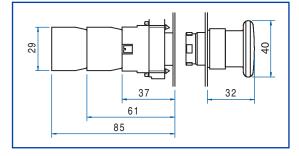


with LED bulb, bulb holder and mounting bracket

Dimensional Drawings All dimensions shown in millimeters.

To convert to inches multiply by 0.03937

Illuminated Mushroom Push-Pull



Switch Contacts (sold separately)



- · Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- · Contact blocks are available with silver contacts or gold plated contacts
- · Self-wiping contacts

Panel Mount

Normally Open Silver	S1
Normally Closed Silver	S2
Normally Open Gold Plated	S3
Normally Closed Gold Plated	S 4

Base Mount*

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold Plated	S7
Normally Closed Gold Plated	S 8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.

12V AC/DC White 40mm Head, 12VAC/DC 2ALMPP1LB-012 Green 40mm Head, 12VAC/DC 2ALMPP3LB-012 Red 40mm Head, 12VAC/DC 2ALMPP5LB-012 Amber 40mm Head, 12VAC/DC 2ALMPP5LB-012 Blue 40mm Head, 12VAC/DC 2ALMPP5LB-012 Clear 40mm Head, 12VAC/DC 2ALMPP7LB-012 Yellow 40mm Head, 24VAC/DC 2ALMPP7LB-024 Green 40mm Head, 24VAC/DC 2ALMPP1LB-024 Green 40mm Head, 24VAC/DC 2ALMPP3LB-024 Red 40mm Head, 24VAC/DC 2ALMPP4LB-024 Amber 40mm Head, 24VAC/DC 2ALMPP4LB-024 Amber 40mm Head, 24VAC/DC 2ALMPP5LB-024 Blue 40mm Head, 24VAC/DC 2ALMPP5LB-024 Wite 40mm Head, 24VAC/DC 2ALMPP5LB-024 Wite 40mm Head, 48VAC/DC 2ALMPP1LB-048 Green 40mm Head, 48VAC/DC 2ALMPP1LB-048 Green 40mm Head, 48VAC/DC 2ALMPP1LB-048 Blue 40mm Head, 48VAC/DC 2ALMPP5LB-048 Blue		Color	Description	Cat No.
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110V AC* White 40mm Head, 110VAC* 2ALMPP1LB-110 Green 40mm Head, 110VAC* 2ALMPP3LB-110 Red 40mm Head, 110VAC* 2ALMPP3LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Blue 40mm Head, 110VAC* 2ALMPP5LB-110 Clear 40mm Head, 110VAC* 2ALMPP6LB-110 Yellow 40mm Head, 110VAC* 2ALMPP7LB-110 Yellow 40mm Head, 230VAC* 2ALMPP7LB-110 Streen 40mm Head, 230VAC* 2ALMPP1LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP5LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230		Clear	40mm Head, 48VAC/DC	2ALMPP7LB-048
White 40mm Head, 110VAC* 2ALMPP1LB-110 Green 40mm Head, 110VAC* 2ALMPP3LB-110 Red 40mm Head, 110VAC* 2ALMPP3LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Blue 40mm Head, 110VAC* 2ALMPP5LB-110 Clear 40mm Head, 110VAC* 2ALMPP6LB-110 Yellow 40mm Head, 110VAC* 2ALMPP7LB-110 Yellow 40mm Head, 230VAC* 2ALMPP8LB-110 230V AC* 40mm Head, 230VAC* 2ALMPP1LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230		Yellow	40mm Head, 48VAC/DC	2ALMPP8LB-048
White 40mm Head, 110VAC* 2ALMPP1LB-110 Green 40mm Head, 110VAC* 2ALMPP3LB-110 Red 40mm Head, 110VAC* 2ALMPP3LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Blue 40mm Head, 110VAC* 2ALMPP5LB-110 Clear 40mm Head, 110VAC* 2ALMPP6LB-110 Yellow 40mm Head, 110VAC* 2ALMPP7LB-110 Yellow 40mm Head, 230VAC* 2ALMPP8LB-110 230V AC* 40mm Head, 230VAC* 2ALMPP1LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230		110/ 40*	·	
Green 40mm Head, 110VAC* 2ALMPP3LB-110 Red 40mm Head, 110VAC* 2ALMPP4LB-110 Amber 40mm Head, 110VAC* 2ALMPP4LB-110 Blue 40mm Head, 110VAC* 2ALMPP5LB-110 Clear 40mm Head, 110VAC* 2ALMPP6LB-110 Yellow 40mm Head, 110VAC* 2ALMPP7LB-110 Yellow 40mm Head, 110VAC* 2ALMPP7LB-110 Yellow 40mm Head, 230VAC* 2ALMPP7LB-110 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230			40mm Head 110VAC*	2AI MPP1I B-110
Red 40mm Head, 110VAC* 2ALMPP4LB-110 Amber 40mm Head, 110VAC* 2ALMPP5LB-110 Blue 40mm Head, 110VAC* 2ALMPP5LB-110 Clear 40mm Head, 110VAC* 2ALMPP6LB-110 Yellow 40mm Head, 110VAC* 2ALMPP7LB-110 230V AC* 2ALMPP8LB-110 White 40mm Head, 230VAC* 2ALMPP8LB-110 230V AC* 40mm Head, 230VAC* 2ALMPP1LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230				
 Amber 40mm Head, 110VAC* 2ALMPP5LB-110 Blue 40mm Head, 110VAC* 2ALMPP6LB-110 Clear 40mm Head, 110VAC* 2ALMPP6LB-110 Yellow 40mm Head, 110VAC* 2ALMPP8LB-110 230V AC* White 40mm Head, 230VAC* 2ALMPP1LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP5LB-230 Clear 40mm Head, 230VAC* 2ALMPP5LB-230 Yellow 40mm Head, 230VAC* 2ALMPP5LB-230 				
Blue40mm Head, 110VAC*2ALMPP6LB-110Clear40mm Head, 110VAC*2ALMPP7LB-110Yellow40mm Head, 110VAC*2ALMPP8LB-110230V AC*2ALMPP8LB-110White40mm Head, 230VAC*2ALMPP1LB-230Green40mm Head, 230VAC*2ALMPP3LB-230Red40mm Head, 230VAC*2ALMPP4LB-230Amber40mm Head, 230VAC*2ALMPP4LB-230Blue40mm Head, 230VAC*2ALMPP5LB-230Clear40mm Head, 230VAC*2ALMPP6LB-230Yellow40mm Head, 230VAC*2ALMPP7LB-230Yellow40mm Head, 230VAC*2ALMPP7LB-230		Amber		2ALMPP5LB-110
Clear40mm Head, 110VAC*2ALMPP7LB-110Yellow40mm Head, 110VAC*2ALMPP8LB-110230V AC*230VAC*2ALMPP1LB-230Green40mm Head, 230VAC*2ALMPP3LB-230Red40mm Head, 230VAC*2ALMPP3LB-230Amber40mm Head, 230VAC*2ALMPP4LB-230Blue40mm Head, 230VAC*2ALMPP5LB-230Clear40mm Head, 230VAC*2ALMPP5LB-230Yellow40mm Head, 230VAC*2ALMPP6LB-230Yellow40mm Head, 230VAC*2ALMPP7LB-230				
Yellow40mm Head, 110VAC*2ALMPP8LB-110230V AC*40mm Head, 230VAC*2ALMPP1LB-230Green40mm Head, 230VAC*2ALMPP3LB-230Red40mm Head, 230VAC*2ALMPP4LB-230Amber40mm Head, 230VAC*2ALMPP5LB-230Blue40mm Head, 230VAC*2ALMPP5LB-230Clear40mm Head, 230VAC*2ALMPP6LB-230Yellow40mm Head, 230VAC*2ALMPP7LB-230		2.0.0	,	
230V AC*White40mm Head, 230VAC*2ALMPP1LB-230Green40mm Head, 230VAC*2ALMPP3LB-230Red40mm Head, 230VAC*2ALMPP4LB-230Amber40mm Head, 230VAC*2ALMPP5LB-230Blue40mm Head, 230VAC*2ALMPP6LB-230Clear40mm Head, 230VAC*2ALMPP6LB-230Yellow40mm Head, 230VAC*2ALMPP7LB-230				
White 40mm Head, 230VAC* 2ALMPP1LB-230 Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP3LB-230 Amber 40mm Head, 230VAC* 2ALMPP4LB-230 Blue 40mm Head, 230VAC* 2ALMPP5LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230				
Green 40mm Head, 230VAC* 2ALMPP3LB-230 Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP6LB-230		230V AC*	10mm Head 230V/AC*	2AI MDD11 B-230
Red 40mm Head, 230VAC* 2ALMPP4LB-230 Amber 40mm Head, 230VAC* 2ALMPP5LB-230 Blue 40mm Head, 230VAC* 2ALMPP6LB-230 Clear 40mm Head, 230VAC* 2ALMPP6LB-230 Yellow 40mm Head, 230VAC* 2ALMPP7LB-230				
Amber40mm Head, 230VAC*2ALMPP5LB-230Blue40mm Head, 230VAC*2ALMPP6LB-230Clear40mm Head, 230VAC*2ALMPP7LB-230Yellow40mm Head, 230VAC*2ALMPP8LB-230				
Blue40mm Head, 230VAC*2ALMPP6LB-230Clear40mm Head, 230VAC*2ALMPP7LB-230Yellow40mm Head, 230VAC*2ALMPP8LB-230			,	
□Clear40mm Head, 230VAC*2ALMPP7LB-230□Yellow40mm Head, 230VAC*2ALMPP8LB-230				
Vellow 40mm Head, 230VAC* 2ALMPP8LB-230			,	
			,	
*110V DC and 230V DC version is available on request.			,	

Exploded Assembly View

- Up to four switch contacts can be installed with any illuminated operators.
- Switch contacts and operators are sold S1 separately. Preassembled push buttons are available on request. S^2 S2S1

22mm Twin Touch Metal Non-Illuminated Operators

		Description	Cat No.
	GREEN-RED F	Flush	2ATF3-F4 2ATF8-F2
Twin Touch/		Flush	2ATF2-F1
		Green Flush, Red Projecting	2ATF3-P4
Not Marked		Yellow Flush, Black Projecting	2ATF8-P2
with mounting bracket	WHITE-BLACK	White Flush, Black Projecting	2ATF1-P2
Arrows marking available upon request.			
	Color	Description	Cat No.
	GREEN-RED	Flush	2ATF3-F4-IO
Twin Touch	YELLOW-BLACK		2ATF8-F2-IO
	BLACK-WHITE*	Flush	2ATF2-F1-IO
I-O Marked	GREEN-RED	Green Flush, Red Projecting	2ATF3-P4-IO
with mounting bracket	YELLOW-BLACK WHITE-BLACK*	Yellow Flush, Black Projecting White Flush, Black Projecting	
	*Comply with vision imp		2ATT 1-F2-10
Arrows marking available upon request.			
	Evolodod		
	Exploded		52
	Assembly View	W S1	1250
		S2	5112011
		1 250 31	
			S1
Dimensional Drawings			<i>S2</i>
All dimensions shown in millimeters.		S1	
To convert to inches multiply by 0.03937			
		4	
Twin Touch/ Flush			
		farm an ital an ata ata an l	h a in stall a d
		four switch contacts can b	pe installed
		any illuminated operators. ch contacts and operators a	are cold
		rately. Preassembled push	
		able on request.	
	avanc		
	Switch		
91		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Contacts		
	(sold separately)		
		ocks with mounting screws.	doop
Twin Touch/ Flush/ Projecting	for a total of 6 circuits.	2 blocks across by 3 blocks	ueep
		ailable with silver contacts or	
ı ı <u> </u>	gold plated contacts		
	 Self-wiping contacts 		
			ase Mount*
		Cat No.	Cat No.
43 11	Normally Open Silver		S5
67	Normally Closed Silve		S6
91	Normally Open Gold		S7 S8
	INDELIAUV LIOSEO GOLO		56

*For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.

S4

S8

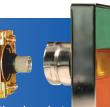
Normally Closed Gold plated

22mm Twin Touch Metal LED Illuminated Operators





Illuminated Center Twin Touch/ Not Marked



with LED bulb, bulb holder and mounting bracket

Arrows marking available upon request. Other lense colors available upon request.

Color **Description** Cat No. GREEN-RED, Flush, Illuminated Center 2ATL5LB F3F4-012 Amber 12VAC/DC Amber 24VAC/DC 2ATL5LB F3F4-024 Amber 48VAC/DC 2ATL5LB F3F4-048 110VAC** 2ATL5LB F3F4-110 Amber Amber 230VAC** 2ATL5LB F3F4-230 GREEN-RED, Green Flush/ Red Projecting, Illuminated center Amber 12VAC/DC 2ATL5LB F3P4-012 2ATL5LB F3P4-024 24VAC/DC Amber Amber 48VAC/DC 2ATL5LB F3P4-048 Amber 110VAC** 2ATL5LB F3P4-110 230VAC** Amber 2ATL5LB F3P4-230

Color	Description	Cat No.
GREEN-RED, F	ush, Illuminated Center	
Amber	12VAC/DC	2ATL5LB F3F4-IO-012
Amber	24VAC/DC	2ATL5LB F3F4-IO-024
Amber	48VAC/DC	2ATL5LB F3F4-IO-048
Amber	110VAC**	2ATL5LB F3F4-IO-110
Amber	230VAC**	2ATL5LB F3F4-IO-230
GREEN-RED, G	reen Flush/ Red Projectii	ng, Illuminated Center
Amber	12VAC/DC	2ATL5LB F3P4-IO-012
Amber	24VAC/DC	2ATL5LB F3P4-IO-024
Amber	48VAC/DC	2ATL5LB F3P4-IO-048
Amber	110VAC**	2ATL5LB F3P4-IO-110
Amber	230VAC**	2ATL5LB F3P4-IO-230
WHITE-BLACK'	, Flush, Illuminated Cent	er
Amber	12VAC/DC	2ATL5LB F2F1-IO-012
Amber	24VAC/DC	2ATL5LB F2F1-IO-024
Amber	48VAC/DC	2ATL5LB F2F1-IO-048
Amber	110VAC**	2ATL5LB F2F1-IO-110
Amber	230VAC**	2ATL5LB F2F1-IO-230

* Comply with vision impaired requirements.

** 110V DC and 230V DC version is available on request.

Exploded Assembly View

- - Op to four switch contacts can be instaned with any illuminated operators.
 Switch contacts and operators are sold separately. Preassembled push buttons are

S1

separately. Preassembled push buttons are available on request.

Switch Contacts (sold separately)



	Panel Mount Cat No.	Base Mount* Cat No.
Normally Open Silver	S1	S5
Normally Closed Silver	S2	S6
Normally Open Gold plated	S3	S7
Normally Closed Gold plated	S4	S8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.

Illuminated Center Twin Touch/ I-O Marked



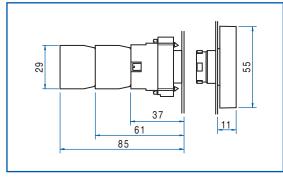
with LED bulb, bulb holder and mounting bracket

Arrows marking available upon request. Other lense colors available upon request.

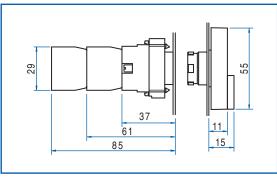
Dimensional Drawings

All dimensions shown in millimeters. To convert to inches multiply by 0.03937

Illuminated Twin Touch/ Flush



Illuminated Twin Touch/ Flush/ Projecting



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22mm Non-Illuminated Metal Selector Switch Operators



Selector with mounting bracket

Other key combinations and colors are available on request. All keys are "keyed alike". Different keys are available on request.

Color	Description	Key Removal	Cat No.
Black	°√ ^o Maintained	Left/Right	2AK2-01
Black	°√ ^o Maintained	Left	2AK2-02
Black	°√° Maintained	Right	2AK2-03
Black	°∽ Spring Return	Left	2AK2-04
Black	V Maintained	Left/Right	2AK2-05
Black	 Ŷ^o Maintained 	All	2AK2-06
Black	 ✓ Maintained 	Center	2AK2-07
Black	↔ Spring Return	Center	2AK2-08
Black	vv Spring Return	Center	2AK2-09
Black	ິນ∲∾ Spring Return	Center	2AK2-10
Black	V Maintained	Left	2AK2-11
Replace	ement Key		2KY455

Selector with mounting bracket

Other colors are available on request.



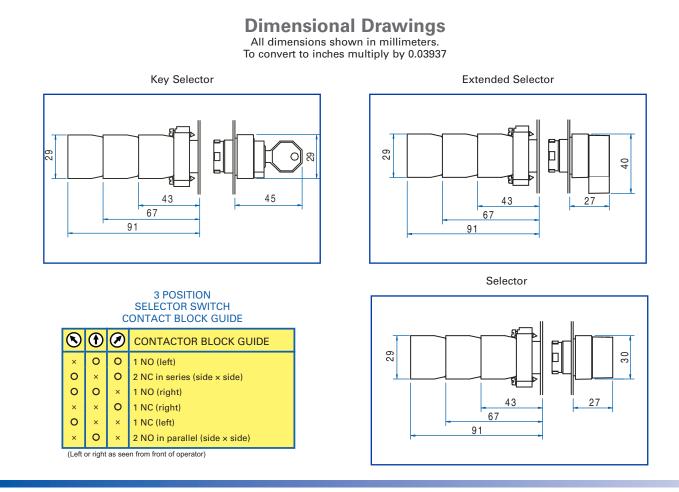
Other colors are available on request.

Color		Description	Cat No.
Black	\sim	Maintained	2AS2-1
Black	~~	Spring Return	2AS2-2
Black	Ŷ	Maintained	2AS2-3
Black	Ŵ	Spring Return	2AS2-4
Black	Ŵ	Spring Return	2AS2-5
Black	Ŷ	Spring Return	2AS2-6

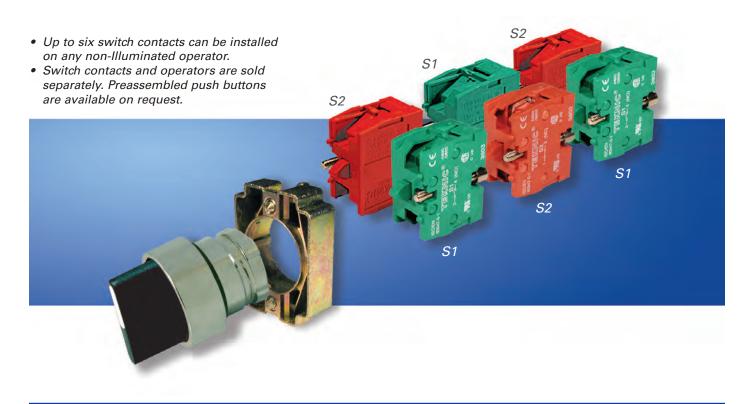
Color		Description	Cat No.
Black	\checkmark	Maintained	2AS2E-1
Black	~~	Spring Return	2AS2E-2
Black	Ŷ	Maintained	2AS2E-3
Black	Ŵ	Spring Return	2AS2E-4
Black	Ŵ	Spring Return	2AS2E-5
Black	Ŷ	Spring Return	2AS2E-6

	Switch Contacts (sold separately)		
Markings on Request		Panel Mount Normally Open Silver Normally Closed Silver Normally Open Gold Plated Normally Closed Gold Plated	S1 S2 S3 S4
Altech Push Buttons are available in a variety of markings, including molded arrows. Please contact Altech for further information and part numbers.	 Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits. Contact blocks are available with silver contacts or gold plated contacts Self-wiping contacts 	Base Mount* Normally Open Silver Normally Closed Silver Normally Open Gold Plated Normally Closed Gold Plated * For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.	S5 S6 S7 S8

22mm Non-Illuminated Metal Selector Switch Operators



Exploded Assembly View



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22mm LED Illuminated Metal Selector Switch Operators







Certified for NEMA Type 4X 12 environment.

Selector

with bulb holder, LED bulb and mounting bracket



Other combinations and colors available upon request. Please contact Altech for further information and part numbers.

XXX = Voltage Codes

012 =	12VAC/DC
024 =	24VAC/DC
048 =	48VAC/DC
110 =	110VAC/DC
230 =	230VAC
230D =	230VDC
· · · · · · · · · · · · · · · · · · ·	



Push button assemblies are available in a variety of custom configurations.



Replacement bulbs available. See page 39.

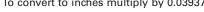
	Color 2 Position		Function	Cat No.
	White	\sim	Maintained	2ASL1LB-1-XXX
	Green	\sim	Maintained	2ASL3LB-1-XXX
	Red	\sim	Maintained	2ASL4LB-1-XXX
	Amber	\sim	Maintained	2ASL5LB-1-XXX
	Blue	\sim	Maintained	2ASL6LB-1-XXX
	Clear	۰ مرک	Maintained	2ASL7LB-1-XXX
	Yelllow	$\hat{\checkmark}$	Maintained	2ASL8LB-1-XXX
	2 Position			
	White	~~~	Spring Return	2ASL1LB-2-XXX
	Green	~~	Spring Return	2ASL3LB-2-XXX
	Red	~~	Spring Return	2ASL4LB-2-XXX
	Amber	~~^	Spring Return	2ASL5LB-2-XXX
	Blue	~~^	Spring Return	2ASL6LB-2-XXX
	Clear	~~	Spring Return	2ASL7LB-2-XXX
	Yelllow	~∽°	Spring Return	2ASL8LB-2-XXX
	3 Position	0		
	White	Ŷ	Maintained	2ASL1LB-3-XXX
	Green	Ŷ	Maintained	2ASL3LB-3-XXX
	Red	Ŷ	Maintained	2ASL4LB-3-XXX
	Amber	Ň	Maintained	2ASL5LB-3-XXX
	Blue	Ŵ	Maintained	2ASL6LB-3-XXX
	Clear	Ŷ	Maintained	2ASL7LB-3-XXX
	Yelllow	Ŷ	Maintained	2ASL8LB-3-XXX
_			return from left an	-
	White	**	Spring Return	2ASL1LB-4-XXX
	Green	Ŵ	Spring Return	2ASL3LB-4-XXX
	Red	Ŵ	Spring Return	2ASL4LB-4-XXX
	Amber	Ŵ	Spring Return	2ASL5LB-4-XXX
	Blue	*	Spring Return	2ASL6LB-4-XXX
	Clear	Ŵ	Spring Return	2ASL7LB-4-XXX
	Yelllow	Ŵ	Spring Return	2ASL8LB-4-XXX
	3 Position,		return from right	
	White	Ŵ	Spring Return	2ASL1LB-5-XXX
	Green	Ŵ	Spring Return	2ASL3LB-5-XXX
	Red	Ŵ	Spring Return	2ASL4LB-5-XXX
	Amber	Ŵ	Spring Return	2ASL5LB-5-XXX
	Blue	Ŵ	Spring Return	2ASL6LB-5-XXX
	Clear	Ŵ	Spring Return	2ASL7LB-5-XXX
	Yelllow	Ŵ	Spring Return	2ASL8LB-5-XXX
_			return from left	
	White	Ŷ	Spring Return	2ASL1LB-6-XXX
	Green	Ŷ	Spring Return	2ASL3LB-6-XXX
	Red	Ŷ	Spring Return	2ASL4LB-6-XXX
	Amber	Ŷ	Spring Return	2ASL5LB-6-XXX
	Blue	Ŷ	Spring Return	2ASL6LB-6-XXX
	Clear	Ŷ	Spring Return	2ASL7LB-6-XXX
	Yelllow	Ŷ	Spring Return	2ASL8LB-6-XXX

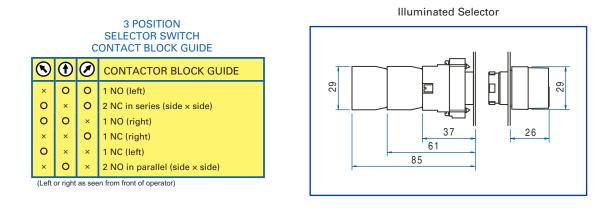
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Dimensional Drawings

All dimensions shown in millimeters. To convert to inches multiply by 0.03937





Switch Contacts (sold separately)



- Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- · Contact blocks are available with silver contacts or gold plated contacts
- Self-wiping contacts

Panel Mount

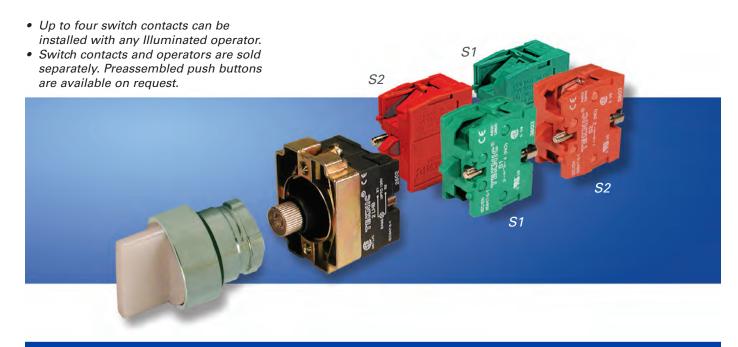
Normally Open Silver	S1
Normally Closed Silver	S2
Normally Open Gold Plated	S 3
Normally Closed Gold Plated	S 4

Base Mount*

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold Plated	S7
Normally Closed Gold Plated	S8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.

Exploded Assembly View



22mm LED Illuminated Metal Projecting Operators









Certified for NEMA Type 4X 12 environment.

Projecting Momentary withbulb, bulb holder





SAMPLE ASSEMBLY

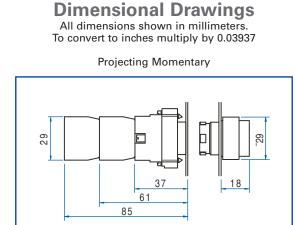


Replacement bulbs available. See page 39.

	Color 12V AC/DC	Voltage	Cat No.
	White	12V AC/DC	2ALP1LB-012
	Green	12V AC/DC	2ALP3LB-012
	Red	12V AC/DC	2ALP4LB-012
	Amber	12V AC/DC	2ALP5LB-012
	Blue	12V AC/DC	2ALP6LB-012
	Clear	12V AC/DC	2ALP7LB-012
	Yelllow	12V AC/DC	2ALP8LB-012
	24V AC/DC		
	White	24V AC/DC	2ALP1LB-024
	Green	24V AC/DC	2ALP3LB-024
	Red	24V AC/DC	2ALP4LB-024
Ξ.	Amber	24V AC/DC	2ALP5LB-024
	Blue	24V AC/DC	2ALP6LB-024
	Clear	24V AC/DC	2ALP7LB-024
	Yelllow	24V AC/DC	2ALP8LB-024
		ZHV AO/DO	
	48V AC/DC White	48V AC/DC	2ALP1LB-048
	Green	48V AC/DC 48V AC/DC	2ALP1LB-048 2ALP3LB-048
			2ALP3LB-048 2ALP4LB-048
	Red Amber	48V AC/DC 48V AC/DC	2ALP4LB-048 2ALP5LB-048
_	Blue	48V AC/DC	2ALP6LB-048
	Clear	48V AC/DC	2ALP7LB-048 2ALP8LB-048
	Yelllow	48V AC/DC	ZALP8LB-048
_	110V AC		
	White	110V AC	2ALP1LB-110
	Green	110V AC	2ALP3LB-110
	Red	110V AC	2ALP4LB-110
	Amber	110V AC	2ALP5LB-110
	Blue	110V AC	2ALP6LB-110
	Clear	110V AC	2ALP7LB-110
	Yelllow	110V AC	2ALP8LB-110
	110V DC		
	White	110V DC	2ALP1LB-110D
	Green	110V DC	2ALP3LB-110D
	Red	110V DC	2ALP4LB-110D
	Amber	110V DC	2ALP5LB-110D
	Blue	110V DC	2ALP6LB-110D
	Clear	110V DC	2ALP7LB-110D
	Yelllow	110V DC	2ALP8LB-110D
	230V AC		
	White	230V AC	2ALP1LB-230
	Green	230V AC	2ALP3LB-230
	Red	230V AC	2ALP4LB-230
	Amber	230V AC	2ALP5LB-230
	Blue	230V AC	2ALP6LB-230
	Clear	230V AC	2ALP7LB-230
	Yelllow	230V AC	2ALP8LB-230
	230V DC		
	White	230V DC	2ALP1LB-230D
	Green	230V DC	2ALP3LB-230D
	Red	230V DC	2ALP4LB-230D
	Amber	230V DC	2ALP5LB-230D
	Blue	230V DC	2ALP6LB-230D
	Clear	230V DC	2ALP7LB-230D
	Yelllow	230V DC	2ALP8LB-230D



22mm LED Illuminated Metal Projecting Operators



Switch Contacts (sold separately)



- Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- · Contact blocks are available with silver contacts or gold plated contacts
- Self-wiping contacts

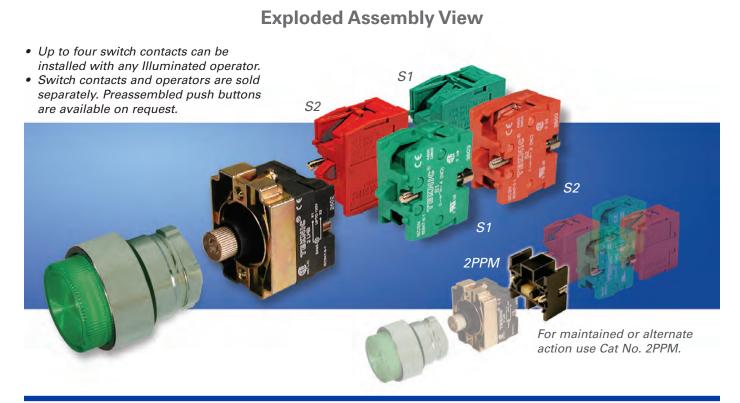
Panel Mount

Normally Open Silver	S1
Normally Closed Silver	S2
Normally Open Gold Plated	S 3
Normally Closed Gold Plated	S4

Base Mount*

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold Plated	S7
Normally Closed Gold Plated	S 8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.



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22mm LED Illuminated Metal Flush Operators

Certified for

12 environment.







NEMA Type 4X

Flush Momentary with bulb, bulb holder and mounting bracket





For installation of a metal operator in the plastic enclosure a Cat No. ADW washer is required.



Replacement bulbs available. See page 39.

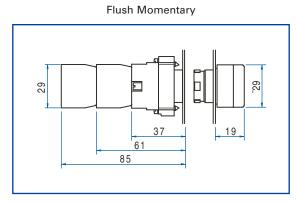
	Color 12V AC/DC	Voltage	Cat No.
	White	12V AC/DC	2ALF1LB-012
	Green	12V AC/DC	2ALF3LB-012
	Red	12V AC/DC	2ALF4LB-012
<u> </u>	Amber	12V AC/DC	2ALF5LB-012
_	Blue	12V AC/DC	2ALF6LB-012
	Clear Yelllow	12V AC/DC 12V AC/DC	2ALF7LB-012 2ALF8LB-012
		IZV AC/DC	ZALFOLD-UIZ
	24V AC/DC	AN/ 40/DO	
	White	24V AC/DC	2ALF1LB-024
2	Green	24V AC/DC	2ALF3LB-024 2ALF4LB-024
	Red Amber	24V AC/DC 24V AC/DC	2ALF4LB-024 2ALF5LB-024
	Blue	24V AC/DC 24V AC/DC	2ALF5LB-024 2ALF6LB-024
	Clear	24V AC/DC	2ALF7LB-024
Ë.	Yelllow	24V AC/DC	2ALF8LB-024
		210,10,20	
	48V AC/DC White	48V AC/DC	2ALF1LB-048
	Green	48V AC/DC 48V AC/DC	2ALF1LB-048
2	Red	48V AC/DC	2ALF3LB-048
21	Amber	48V AC/DC	2ALF5LB-048
	Blue	48V AC/DC	2ALF6LB-048
	Clear	48V AC/DC	2ALF7LB-048
	Yelllow	48V AC/DC	2ALF8LB-048
_	110V AC		
	White	110V AC	2ALF1LB-110
	Green	110V AC	2ALF3LB-110
	Red	110V AC	2ALF4LB-110
	Amber	110V AC	2ALF5LB-110
	Blue	110V AC	2ALF6LB-110
	Clear	110V AC	2ALF7LB-110
	Yelllow	110V AC	2ALF8LB-110
	110V DC		
	White	110V DC	2ALF1LB-110D
	Green	110V DC	2ALF3LB-110D
	Red	110V DC	2ALF4LB-110D
	Amber	110V DC	2ALF5LB-110D
	Blue	110V DC	2ALF6LB-110D
	Clear	110V DC	2ALF7LB-110D
	Yelllow	110V DC	2ALF8LB-110D
_	230V AC	0001/10	
	White	230V AC	2ALF1LB-230
-	Green	230V AC 230V AC	2ALF3LB-230
-	Red Amber	230V AC 230V AC	2ALF4LB-230 2ALF5LB-230
-	Blue	230V AC	2ALF6LB-230
	Clear	230V AC	2ALF7LB-230
	Yelllow	230V AC	2ALF8LB-230
	230V DC		
	White	230V DC	2ALF1LB-230D
	Green	230V DC	2ALF3LB-230D
	Red	230V DC	2ALF4LB-230D
	Amber	230V DC	2ALF5LB-230D
	Blue	230V DC	2ALF6LB-230D
	Clear	230V DC	2ALF7LB-230D
	Yelllow	230V DC	2ALF8LB-230D



22mm LED Illuminated Metal Flush Operators

Dimensional Drawings

All dimensions shown in millimeters. To convert to inches multiply by 0.03937



Switch Contacts (sold separately)



- Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- Contact blocks are available with
- silver contacts or gold plated contacts

 Self-wiping contacts

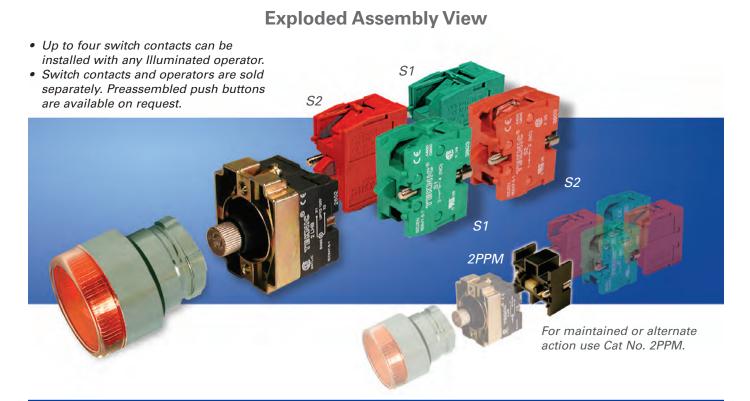
Panel Mount

Normally Open Silver	S1
Normally Closed Silver	S2
Normally Open Gold Plated	S 3
Normally Closed Gold Plated	S 4

Base Mount*

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold Plated	S7
Normally Closed Gold Plated	S 8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.



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22mm LED Metal Pilot Lights



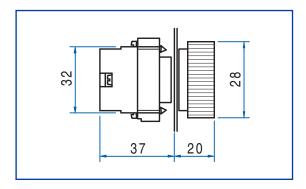






Certified for NEMA Type 4X 12 environment.







Replacement bulbs available. See page 39.

	Color 12V AC/DC	Voltage	Cat No.
	White	12V AC/DC	2PLB1LB-012
	Green	12V AC/DC	2PLB3LB-012
	Red	12V AC/DC	2PLB4LB-012
	Amber	12V AC/DC	2PLB5LB-012
	Blue	12V AC/DC	2PLB6LB-012
	Clear	12V AC/DC	2PLB7LB-012
	Yelllow	12V AC/DC	2PLB8LB-012
_	24V AC/DC		
	White	24V AC/DC	2PLB1LB-024
	Green	24V AC/DC	2PLB3LB-024
2.	Red	24V AC/DC	2PLB4LB-024
21	Amber	24V AC/DC 24V AC/DC	2PLB5LB-024
	Blue	24V AC/DC	2PLB5LB-024 2PLB6LB-024
	Clear	24V AC/DC	2PLB7LB-024
	Yelllow	24V AC/DC	2PLB8LB-024
	48V AC/DC		
	White	48V AC/DC	2PLB1LB-048
	Green	48V AC/DC	2PLB3LB-048
	Red	48V AC/DC	2PLB4LB-048
	Amber	48V AC/DC	2PLB5LB-048
	Blue	48V AC/DC	2PLB6LB-048
	Clear	48V AC/DC	2PLB7LB-048
	Yelllow	48V AC/DC	2PLB8LB-048
	110V AC		
	White	110V AC	2PLB1LB-110
	Green	110V AC	2PLB3LB-110
	Red	110V AC	2PLB4LB-110
	Amber	110V AC	2PLB5LB-110
	Blue	110V AC	2PLB6LB-110
	Clear	110V AC	2PLB7LB-110
	Yelllow	110V AC	2PLB8LB-110
	110V DC		
	White	110V DC	2PLB1LB-110D
	Green	110V DC	2PLB3LB-110D
. .	Red	110V DC	2PLB4LB-110D
	Amber	110V DC	2PLB5LB-110D
	Blue	110V DC	2PLB6LB-110D
	Clear	110V DC	2PLB7LB-110D
	Yelllow	110V DC	2PLB8LB-110D
	230V AC		
	White	230V AC	2PLB1LB-230
	Green	230V AC	2PLB3LB-230
Ξ.	Red	230V AC	2PLB4LB-230
	Amber	230V AC	2PLB5LB-230
	Blue	230V AC	2PLB6LB-230
	Clear	230V AC	2PLB7LB-230
	Yelllow	230V AC	2PLB8LB-230
		20077.0	2. 20020 200
	230V DC	2201/ DC	
	White	230V DC 230V DC	2PLB1LB-230D 2PLB3LB-230D
2.	Green		
	Red	230V DC	2PLB4LB-230D
	Amber	230V DC	2PLB5LB-230D
	Blue Clear	230V DC 230V DC	2PLB6LB-230D 2PLB7LB-230D
	Yelllow	230V DC	2PLB8LB-230D

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22mm Specifications



Electrical and Mechanical Characteristics

Standard conformity:	IEC 60947-5-1
Approvals:	VDE0660
	CSA - C22.2 No. 14-95
	UL508
	IEC 947 - 5 (1) 1990, IS 13947
	ASTA UK certified as per IEC 947 - 5 - (1) 1990
Degree of protection:	IP 65 as per IEC 529
	NEMA Type 4X, 12 as per UL50
Temperature Range:	- 25°C to + 70°C (-13°F to +158°F)

Contact Block

Rated voltage:	600V AC /DC
Rated current:	10A AC / 2.5A DC
Contact operation:	self-wiping, slow break NO or NC
UL508 rating (pilot duty):	
CSA - C22.2 No. 14-95:	A600: 10A; 600V AC
	Q600: 2.5A; 600V DC
Make and break capacity	
IEC 947 - 5 - (1) 1990:	AC 15 4A, 415V AC
	DC 13 0.5A, 110V DC
Terminal capacity:	minimum 20 AWG (0.5 mm²)
	maximum 2x16 AWG (2 x 1.5 mm²) or 14 AWG (2.5 mm²)
Terminal marking:	1-2 for NC, 3-4 for NO
Short circuit protection:	10A cartridge fuse HRC type, rated for resistive loads
Mechanical life:	1 million operations

Modules for Pilot Lights & Illuminated Switches with LED Bulbs

Current consumption (applicable to all colors)				
24 VAC/DC, 100 VAC & 240 VAC:	max. 20 mA			
110 VDC:	max. 15 mA			
220 VDC:	max. 10 mA			
Service life (at nominal voltage and at				
ambient temperature of 25°C):	100,000 hours			
Voltage limits (nominal voltage):	<20% of rated voltage>			
Short circuit protection:	on specific request			
Terminal capacity:	min. 1 x 0.5 mm² (20 AWG), max. 2 x 1.5 mm² (2x16 AWG)			
	or 1 x 2.5 mm² (1x14 AWG)			

Torque Specifications

Mounting bracket screws	1.2 Nm (10.8 lbs. in.)
Contact block to bracket screws	0.5 Nm (4.5 lbs. in.)
Terminal screws (wiring)	0.8 Nm (7.2 lbs. in.)

Economy Non-Illuminated Plastic Push Buttons



Momentary



Maintained







Color Momentary	Description & Function	Cat No.
White	Flush, 1NO Contact	3PSF110
Black	Flush, 1NO Contact	3PSF210
Green	Flush, 1NO Contact	3PSF310
Red	Flush, 1NO Contact	3PSF410
Blue	Flush, 1NO Contact	3PSF610
Yellow	Flush, 1NO Contact	3PSF810
□ White	Flush, 1NC Contact	3PSF101
Black	Flush, INC Contact	3PSF201
Green	Flush, 1NC Contact	3PSF301
Red	Flush, 1NC Contact	3PSF401
Blue		3PSF601
Yellow	Flush, 1NC Contact Flush, 1NC Contact	3PSF801
White	Flush, 1NO + 1NC Contact	3PSF111
Black	Flush, 1NO + 1NC Contact	3PSF211
Green	Flush, 1NO + 1NC Contact	3PSF311
Red	Flush, 1NO + 1NC Contact	3PSF411
Blue	Flush, 1NO + 1NC Contact	3PSF611
Yellow	Flush, 1NO + 1NC Contact	3PSF811
White	Flush, 2NO Contact	3PSF120
Black	Flush, 2NO Contact	3PSF220
Green	Flush, 2NO Contact	3PSF320
Red	Flush, 2NO Contact	3PSF420
Blue	Flush, 2NO Contact	3PSF620
Yellow	Flush, 2NO Contact	3PSF820
White	Flush, 2NC Contact	3PSF102
Black	Flush, 2NC Contact	3PSF202
Green	Flush, 2NC Contact	3PSF302
Red	Flush, 2NC Contact	3PSF402
Blue	Flush, 2NC Contact	3PSF602
Yellow	Flush, 2NC Contact	3PSF802
Maintained	Fluck 1NO Duck Duck	
☐ White ■ Black	Flush, 1NO Push-Push	3PSFPP110 3PSFPP210
_	Flush, 1NO Push-Push Flush, 1NO Push-Push	3PSFPP210
Green		3PSFPP310 3PSFPP410
Red Blue	Flush, 1NO Push-Push Flush, 1NO Push-Push	3PSFPP410
Yellow	Flush, 1NO Push-Push	3PSFPP810
	,	
White	Flush, 1NC Push-Push	3PSFPP101
Black	Flush, 1NC Push-Push	3PSFPP201
Green	Flush, 1NC Push-Push	3PSFPP301
Red	Flush, 1NC Push-Push	3PSFPP401
Blue	Flush, 1NC Push-Push	3PSFPP601
Yellow	Flush, 1NC Push-Push	3PSFPP801
White	Flush, 1NO + 1NC Push-Push	3PSFPP111
Black	Flush, 1NO + 1NC Push-Push	3PSFPP211
Green	Flush, 1NO + 1NC Push-Push	3PSFPP311
Red	Flush, 1NO + 1NC Push-Push	3PSFPP411
Blue	Flush, 1NO + 1NC Push-Push	3PSFPP611
Yellow	Flush, 1NO + 1NC Push-Push	3PSFPP811
U White	Flush, 2NO Push-Push	3PSPP120
Black	Flush, 2NO Push-Push	3PSPP220
Green	Flush, 2NO Push-Push	3PSPP320
Red	Flush, 2NO Push-Push	3PSPP420
Blue Vellow	Flush, 2NO Push-Push Flush, 2NO Push-Push	3PSPP620 3PSPP820
White Black	Flush, 2NC Push-Push	3PSPP102 3PSPP202
Black Green	Flush, 2NC Push-Push Flush, 2NC Push-Push	3PSPP202 3PSPP302
Red	Flush, 2NC Push-Push	3PSPP402
Blue	Flush, 2NC Push-Push	3PSPP602
Yellow	Flush, 2NC Push-Push	3PSPP802

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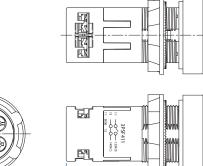


Economy Non-Illuminated Plastic Push Buttons Specifications

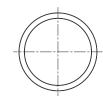
-	•
A. Mechanical Characteristics	
Contact Operation	NO/NC Slow Break
Operating Travel	Changing NC status = 2mm Changing NO status = 2mm Total travel = 3.5mm
Operating Force for 3PSF Series	Changing NC status = 4.22mm Changing NO status = 5.60mm Travel required to change NC status = 0.65mm Travel required to change NO status = 1.65 to 1.98mm Total travel = 3.8mm
Contact Configurations	1NO; 1NO + 1NC; 2NC
Terminal Torque	0.5Nm / 4.5lbs. in.
B. Mechanical Durability	
Push Button, Spring Return	1 Million Operations
Push-Push Type	100,000 Operations
Applicable Standard	UL508; IS13947-5-1; CSA 22.2
Degree of Protection	IP65 (as per IS 13947)
Temperature Range	-25° to +85°C (-13°F to 180°F)
C. Electrical Characteristics	
Rating	For AC: C300= 120V, make current 15A & break current 1.5A (thermal current=2.5A) For DC: R300= 125V, make or break current 0.22A (thermal current=1.0A)
Terminal Capacity for wiring	2 X 1.5mm ² ; 1 X 0.5mm ² (min); 1 X 2.5mm ² (max)
Contact Material	
	 Moving contact = Phosphor Bronze Fixed Contact = Brass silver plated 2 microns
Short Circuit Protection	4A fuse
Dielectric Test	2.5KV
Rated insulation Resistance	500M ohm
Rated Thermal Current	2.5A

Dimensional Drawings All dimensions shown in millimeters.

To convert to inches multiply by 0.03937



R 51.0



28.7



Unibody LED Indicator Plastic Pilot Lights

	Color	Description	Cat Na
E225660	Color	Description	Cat No.
	White Lens/Yellow LED	12V AC/DC	3PLBR1L-012
	White Lens/Yellow LED	24V AC/DC	3PLBR1L-024
Pilot Lights	White Lens/Yellow LED	48V AC/DC	3PLBR1L-048
	White Lens/Yellow LED	110V AC*	3PLBR1L-110
with integral LED	White Lens/Yellow LED	230V AC*	3PLBR1L-230
	White Lens/White LED	12V AC/DC	3PLBR1LS-012
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	White Lens/White LED	24V AC/DC	3PLBR1LS-024
	White Lens/White LED	48V AC/DC	3PLBR1LS-048
	White Lens/White LED	110V AC*	3PLBR1LS-110
	White Lens/White LED	230V AC*	3PLBR1LS-230
	Green Lens/Green LED	12V AC/DC	3PLBR3L-012
	Green Lens/Green LED	24V AC/DC	3PLBR3L-024
	Green Lens/Green LED	48V AC/DC	3PLBR3L-048
	Green Lens/Green LED Green Lens/Green LED	110V AC* 230V AC*	3PLBR3L-110 3PLBR3L-230
	Green Lens/Green LED	24-230V AC/DC	3PLBR3LU
		212001/10/20	
	Red Lens/Red LED	12V AC/DC	3PLBR4L-012
	Red Lens/Red LED	24V AC/DC	3PLBR4L-012 3PLBR4L-024
	Red Lens/Red LED	48V AC/DC	3PLBR4L-048
	Red Lens/Red LED	110V AC*	3PLBR4L-110
	Red Lens/Red LED	230V AC*	3PLBR4L-230
	Red Lens/Red LED	24-230V AC/DC	3PLBR4LU
	Clear Lens /Red/Green LED	12V AC/DC	3PLBR34L-012
	Clear Lens /Red/Green LED	24V AC/DC	3PLBR34L-024
	Clear Lens /Red/Green LED	48V AC/DC	3PLBR34L-048
Multi color LED pilot light	Clear Lens /Red/Green LED Clear Lens /Red/Green LED	110V AC* 230V AC*	3PLBR34L-110 3PLBR34L-230
Clear Lens / Red / Green LED		230V AC	3FLDH34L-230
	Amber Lens/Amber LED	12V AC/DC	3PLBR5L-012
	Amber Lens/Amber LED	24V AC/DC	3PLBR5L-024
	Amber Lens/Amber LED	48V AC/DC	3PLBR5L-048
	Amber Lens/Amber LED	110V AC*	3PLBR5L-110
	Amber Lens/Amber LED	230V AC*	3PLBR5L-230
	Blue Lens/Blue LED	12V AC/DC	3PLBR6L-012
	Blue Lens/Blue LED	24V AC/DC	3PLBR6L-024
	Blue Lens/Blue LED	48V AC/DC	3PLBR6L-048
	Blue Lens/Blue LED	110V AC*	3PLBR6L-110
	Blue Lens/Blue LED	230V AC*	3PLBR6L-230
	Clear Lens/Yellow LED	12V AC/DC	3PLBR7L-012
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clear Lens/Yellow LED	24V AC/DC	3PLBR7L-024
	Clear Lens/Yellow LED	48V AC/DC	3PLBR7L-048
	Clear Lens/Yellow LED	110V AC*	3PLBR7L-110
	Clear Lens/Yellow LED	230V AC*	3PLBR7L-230
	Clear Lens/White LED	12V AC/DC	3PLBR7LS-012
	Clear Lens/White LED	24V AC/DC	3PLBR7LS-024
	Clear Lens/White LED	48V AC/DC	3PLBR7LS-048
	Clear Lens/White LED	110V AC*	3PLBR7LS-110
	Clear Lens/White LED	230V AC*	3PLBR7LS-230
	Yellow Lens/Yellow LED	12V AC/DC	3PLBR8L-012
	Yellow Lens/Yellow LED Yellow Lens/Yellow LED	24V AC/DC 48V AC/DC	3PLBR8L-024 3PLBR8L-048
	Yellow Lens/Yellow LED	48V AC/DC 110V AC*	3PLBR8L-048 3PLBR8L-110
	Yellow Lens/Yellow LED	230V AC*	3PLBR8L-230

*110V DC and 230V DC version is available on request.



Unibody LED Indicator Plastic Pilot Lights Specifications

A. Mechanical Characteristics

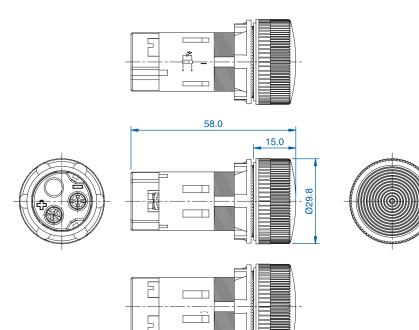
Applicable Standard	UL508 IEC 60947 CSA 22.2
Degree of Protection	IP65 as per IEC 60947,
Temperature Range	-25° to +70°C (-13 to +158°F)
Contact material	Phosphor bronze for LED, PCB contact brass (tin plated)
Corrosion protection	All metallic parts are electroplated for corrosion protection
Terminal Torque	0.5 Nm (4.5 lbs. / in.)
Viewing Angle	More than 100°
Optical Axial intensity	More than 100 mcd for all colors

B. Electrical Characteristics

Rating	Rated 6V AC/DC to 240V AC and 220V DC, 2W max. (Integral LEDs)
Terminal Capacity	Screw connection
	2 X 1.5mm ²
	1 X 0.5mm² (min)
	1 X 2.5mm ² (max)
Dielectric Test	2.5KV
Rated insulation Resistance	500M ohm at 1000VDC
Polarity protection	Polarity protection is only in case of DC supply lamps
Low voltage protection	20V for 110V AC & 110V DC
	40V for 240V AC & 220V DC
	(i.e. approx. 20% of Rated Voltage)
Current Consumption	Max. 20mA for AC circuits
	Max. 15mA for DC circuits

Dimensional Drawings All dimensions shown in millimeters.

All dimensions shown in millimeters. To convert to inches multiply by 0.03937



22mm Thermoplastic Enclosures

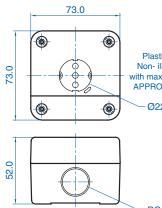


Certified for NEMA Type 4X 12 environment.



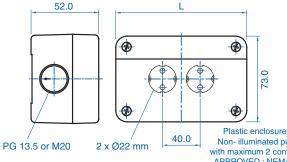
Base Mount Enclosures

Cat. No.	Operator Capacity	Material	Long Description	Dimensions L x W x H	Cable Entry Knockouts	Mounting Hole Size
4003A11	1	Thermo Plastic	White Top/Black Bottom	73 X 73 X 52	2 x M20	(4) - 4.4x6.4
4003C11	2	Thermo Plastic	White Top/Black Bottom	113 X 73 X 52	2 x M20	(4) - 4.4x6.4
4003E11	3	Thermo Plastic	White Top/Black Bottom	153 X 73X 52	2 x M20	(4) - 4.4x6.4
4003G11	4	Thermo Plastic	White Top/Black Bottom	193 X 73 X 52	2 x M20	(4) - 4.4x6.4
4003S11	5	Thermo Plastic	White Top/Black Bottom	233 X 73 X 52	2 x M20	(4) - 4.4x6.4
4003111	6	Thermo Plastic	White Top/Black Bottom	273 X 73 X 52	2 x M20	(4) - 4.4x6.4
4004A10	1	Thermo Plastic	Yellow Top/Black Bottom	73 X 73 X 52	2 x M20	(4) - 4.4x6.4
4004C10	2	Thermo Plastic	Yellow Top/Black Bottom	113 X 73 X 52	2 x M20	(4) - 4.4x6.4
4004E10	3	Thermo Plastic	Yellow Top/Black Bottom	153 X 73X 52	2 x M20	(4) - 4.4x6.4
4004G10	4	Thermo Plastic	Yellow Top/Black Bottom	193 X 73 X 52	2 x M20	(4) - 4.4x6.4
4004S10	5	Thermo Plastic	Yellow Top/Black Bottom	233 X 73 X 52	2 x M20	(4) - 4.4x6.4
4004110	6	Thermo Plastic	Yellow Top/Black Bottom	273 X 73 X 52	2 x M20	(4) - 4.4x6.4



Plastic enclosure suited for Non- illuminated push buttons with maximum 2 contact elements APPROVED : NEMA Type 4X,12

Ø22 mm



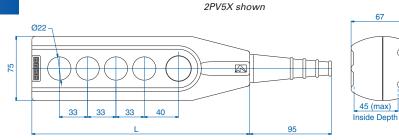
Plastic enclosure suited for Non- illuminated push buttons with maximum 2 contact elements APPROVED : NEMA Type 4X,12

PG 13.5 or M20 Ambient Temperature: -25°C to 70°C (-13°F to 158°F)

-

Control Boxes

Cat. No.	Operator	Dimensions*
	Capacity	LxWxH mm
2PV2X	2	188x75x67
2PV3X	3	188x75x67
2PV4X	4	221x75x67
2PV5X	5	254x75x67
2PV6X	6	287x75x67
2PV7X	7	320x75x67
2PV8X	8	353x75x67
2PV9X	9	386x75x67



Contact Elements and Seal						
Cat. No.	Description					
S1	Normally open					
S2	Normally closed					
3PRG1*	Rubber gasket*					

* To acheive IP65 rating for control boxes, this rubber gasket must be used.

Altech 22mm Thermoplastic Enclosure & Control Box Accessories





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Certified for NEMA Type 4X 12 environment.

Flush Momentary with mounting bracket



Mushroom Momentary/Maintained with mounting bracket



Projecting with mounting bracket



Selector Switch with mounting bracket





Mounting Bracket for plastic operators Cat. No. P2BRK



Rotational Washer for push-turn E-stop plastic operator Cat. No. 2RLW



Mounting Nut for plastic operators Cat. No. P2MN

Switch Contacts



Color **Function** Marking Cat No. P2AF1 White Momentary None P2AF1WA0 White Momentary Black arrow, up/down P2AF1WA90 White Momentary Black arrow, left/right Black Momentary None P2AF2 Black Momentary White arrow, up/down P2AF2WA0 Black Momentary White arrow, left/right P2AF2WA90 P2AF3 Green Momentary None Red Momentary None P2AF4 Blue None P2AF6 Momentary Yellow P2AF8 Momentary None Red P2AM4 40mm Momentary None Red 40mm Push-Turn P2AML4 Red 30mm Push-Turn P2AMLS4 Red 40mm Push-Pull 0 P2AMPP4 Black Projecting None P2AP2 Projecting None P2AP3 Green P2AP4 Red Projecting None Blue Projecting None P2AP6 Yellow Projecting None **P2AP8**

Black	Maintained / 2 position	None	P2AS2-1*
Black	Maintained / 3 position	None	P2AS2-3*
Black	Momentary / 3 position	None	P2AS2-4*

* Only for 22mm Thermoplastic Enclosures.

Large Rubber Gasket 3PRG1 Cat. No.

Note: Used for Push Buttons that begin in a 3P part number. Also used for control boxes with any type of operator in place of small rubber gasket (2PRG1) to acheive a IP65 rating.



Small Rubber Gasket Cat. No. 2PRG1

Note: Used for Push Buttons that begin in a 2P or P2 part number as a standard gasket.

Transparent Silicone Rubber Boot

for Flush Actuators Color: Clear 2BT7 (for non-illuminated) Cat. No. 2ALBT7 (for illuminated)

Base Mount

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold plated	S 7
Normally Closed Gold plated	SS

Normally Closed Gold plated S8

Normally Open Silver **S1** Normally Closed Silver **S2** Normally Open Gold plated **S**3 Normally Closed Gold plated S4

Panel Mount

22mm Thermoplastic Enclosure Installation Instructions

Installation

The enclosure may be installed vertically or horizontally.

- 1. Unscrew the top half of the enclosure. Some enclosures are supplied with detached cover.
- 2. Place the bottom half to the desired mounting location using two M4 or 8/32" screws.
- 3. When wiring is complete, install the top half of the enclosure making sure the location key is in it's proper location (see below).



Intended Use

The unit is a two part non-metallic enclosure with a gasket. Metal and/or Plastic series non-illuminated push buttons & pilot lights can be installed in these enclosures. For illuminated push buttons consider the plastic enclosures on pages 34-35 or GDC (gravity die cast) aluminum enclosures on page 37.

Features:

- 1. Protection type IP65 in accordance with IEC 60947.
- 2. Protection type 4X, 12 in accordance with UL50.

Preparing for Operation

- 1. To insert cable, knockout one of the pre-stamped opening.
- For IP65 protection you must use a M20 or PG13 liquid tight strain relief.
- 2. Install the push button or pilot light in the actuator mounting hole.

Safety Regulations

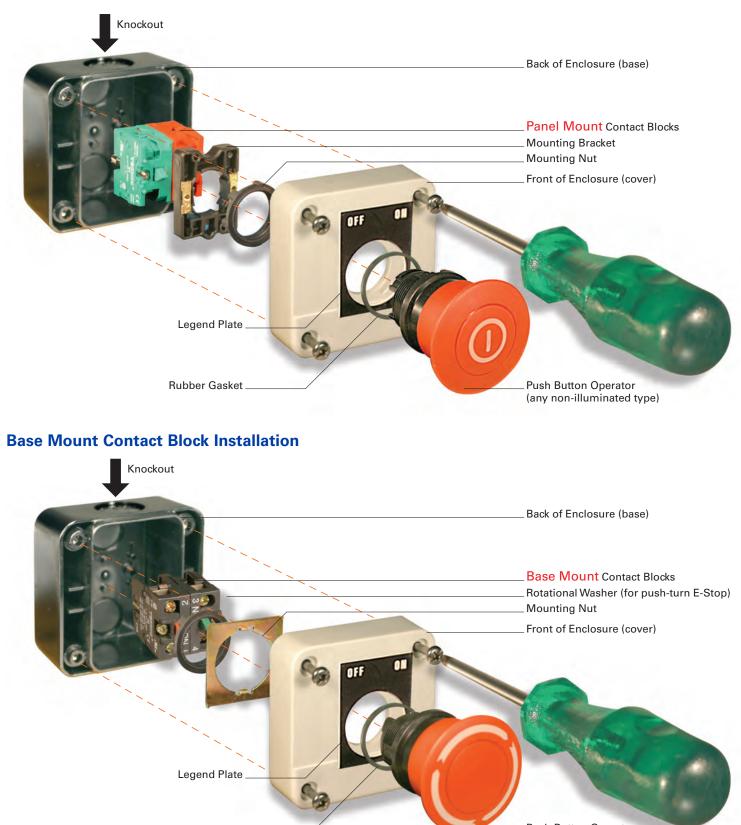
The unit may only be assembled and installed by individuals who are familiar with the installation instructions and the current regulations for health and safety at work and accident prevention. Ensure local regulations compliances are met.

CAUTION

- 1. Non-metallic enclosures do not provide grounding connections. Use grounding jumper wires.
- 2. The conduit hubs are to be connected to the conduit before being connected to the enclosure.
- 3. To maintain the environmental rating of this enclosure, install only UL listed or UL recognized conduit hubs or control devices with the same environmental ratings as the enclosure, in compliance with the installation instructions of the device.



22mm Thermoplastic Enclosures Assembly Instructions

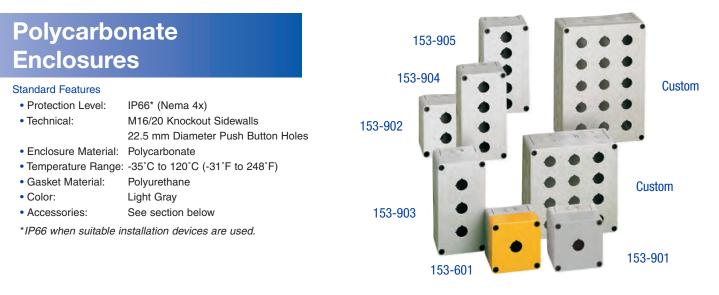


Panel Mount Contact Block Installation

Rubber Gasket _____

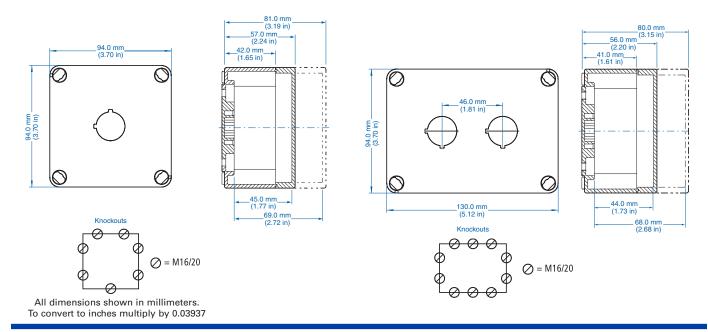
Push Button Operator (any non-illuminated type)

22mm Polycarbonate Enclosures



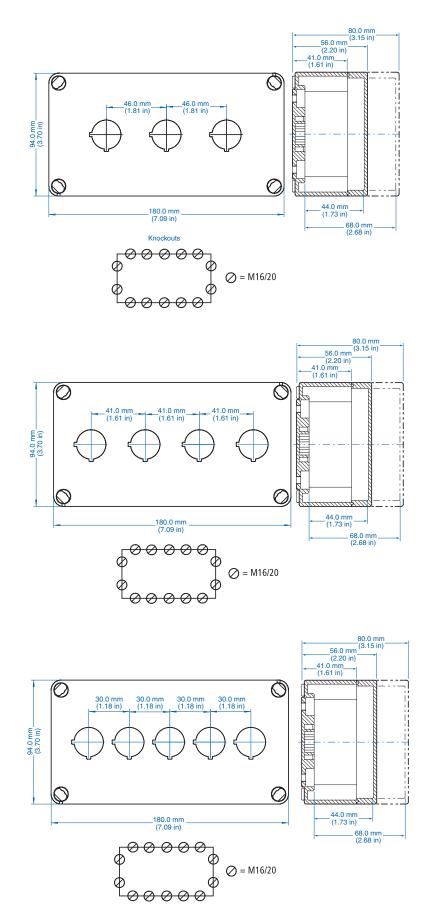
Ordering	Dimensi	ons mm (in)			Std.
Information	Cat. No.	Length	Width	Height	Pk.
One hole enclosure	153-901	94 mm (3.70 in)	94 mm (3.70 in)	81 mm (3.19 in)	1
One hole enclosure (Yellow cover)	153-601	94 mm (3.70 in)	94 mm (3.70 in)	81 mm (3.19 in)	1
Two hole enclosure	153-902	130 mm (5.12 in)	94 mm (3.70 in)	81 mm (3.19 in)	1
Three hole enclosure	153-903	180 mm (7.09 in)	94 mm (3.70 in)	81 mm (3.19 in)	1
Four hole enclosure	153-904	180 mm (7.09 in)	94 mm (3.70 in)	81 mm (3.19 in)	1
Five hole enclosure	153-905	180 mm (7.09 in)	94 mm (3.70 in)	81 mm (3.19 in)	1
One hole enclosure	153-901/L	94 mm (3.70 in)	94 mm (3.70 in)	57 mm (2.24 in)	1
One hole enclosure (Yellow cover)	153-601/L	94 mm (3.70 in)	94 mm (3.70 in)	57 mm (2.24 in)	1
Two hole enclosure	153-902/L	130 mm (5.12 in)	94 mm (3.70 in)	57 mm (2.24 in)	1
Three hole enclosure	153-903/L	180 mm (7.09 in)	94 mm (3.70 in)	57 mm (2.24 in)	1
Four hole enclosure	153-904/L	180 mm (7.09 in)	94 mm (3.70 in)	57 mm (2.24 in)	1
Five hole enclosure	153-905/L	180 mm (7.09 in)	94 mm (3.70 in)	57 mm (2.24 in)	1
One hole enclosure (extra space)	153-902/1H	130 mm (5.12 in)	94 mm (3.70 in)	57 mm (2.24 in)	1

5308 959	M20 Cord Grip, 5-12mm Cable Dia., Lt Gray	1
7211 981	M20 Locknut, Lt. Gray, PA	1
5308 949	M20 Cord Grip, 5-12mm Cable Dia., Black	1
7211 976	M20 Locknut, Black, PA	1



22mm Polycarbonate Enclosures





All dimensions shown in millimeters. To convert to inches multiply by 0.03937

Aluminum Enclosures for 22mm Operators



Certified for NEMA Type 4X 12 environment.

Aluminum (52mm Height) **Pressure Die Cast**

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For base mount contact blocks and non-illuminated operators. 2 contact blocks maximum per operator.

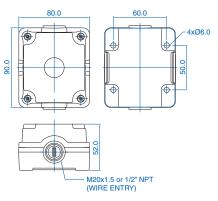




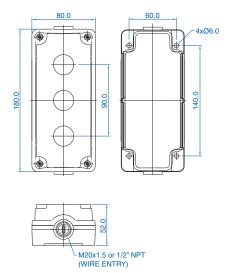
Operator Capacity	Cat. No. Black base/ Grey Cover*	Color Black base/ Yellow Cover	Material Construction	Dimensions LxWxH mm (in.)	Cable Entry Thread Size	Mounting Hole Dia.
1	2005A13	2048A10	PDC Aluminum	80x90x52 (3.15x3.54x2.05)	2xM20	4 x 6mm
2	2006C13	2050C10	PDC Aluminum	80x135x52 (3.15x5.32x2.05)	2xM20	4 x 6mm
3	2007E13	2032E10	PDC Aluminum	80x180x52 (3.15x7.09x2.05)	2xM20	4 x 6mm
4	2010G13	2020G10	PDC Aluminum	80x225x52 (3.15x8.86x2.05)	2xM20	4 x 6mm
1	2015A13	2049A10	PDC Aluminum	80 x 90x52 (3.15x3.54x2.05)	2x1/2"-14 NPT	4 x 6mm
2	2014C13	2051C10	PDC Aluminum	80x135x52 (3.15x5.32x2.05)	2x1/2"-14 NPT	4 x 6mm
3	2012E13	2033E10	PDC Aluminum	80x180x52 (3.15x7.09x2.05)	2x1/2"-14 NPT	4 x 6mm
4	2008G13	2019G10	PDC Aluminum	80x225x52 (3.15x8.86x2.05)	2x1/2"-14 NPT	4 x 6mm

*Color code RAL 7032, Pebble Gray. Other colors available upon request.



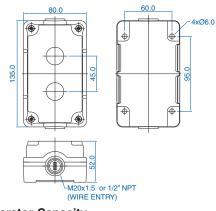


3 - Operator Capacity

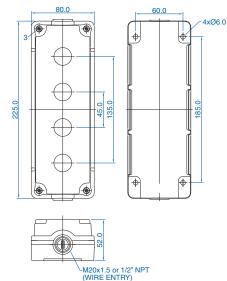


All dimensions shown in millimeters. To convert to inches multiply by 0.03937

2 - Operator Capacity



4 - Operator Capacity



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Aluminum Enclosures for 22mm Operators



Certified for **NEMA Type 4X** 12 environment.

Aluminum (72mm Height) Pressure Die Cast

For panel mount contact blocks and

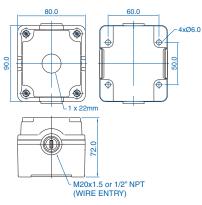
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illuminated operators. 2 contact blocks can be used with an illuminated operator. 4 contact blocks can be used with any non-illuminated operator.

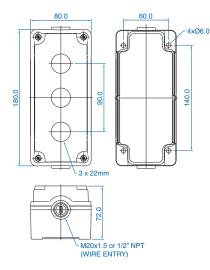
Operator Capacity	Cat. No. Black base/ Grey cover*	Color Black base/ Grey cover*	Material Construction	Dimensions LxWxH mm (in.)	Cable Entry Thread Size	Mounting Hole Dia.
1	7009A13	7021A10	PDC Aluminum, EH	80x90x72 (3.15x3.54x2.83)	2xM20	4 X 6mm
2	7006C13	7015C10	PDC Aluminum, EH	80x135x72 (3.15x5.32x2.83)	2xM20	4 X 6mm
3	7004E13	7016E10	PDC Aluminum, EH	80x180x72 (3.15x7.09x2.83)	2xM20	4 X 6mm
4	7004G13	7008G10	PDC Aluminum, EH	80x225x72 (3.15x8.86x2.83)	2xM20	4 X 6mm
1	7010A13	7022A10	PDC Aluminum, EH	80x90x72 (3.15x3.54x2.83)	2x1/2"-14 NPT	4 X 6mm
2	7007C13	7016C10	PDC Aluminum, EH	80x135x72 (3.15x5.32x2.83)	2x1/2"-14 NPT	4 X 6mm
3	7005E13	7017E10	PDC Aluminum, EH	80x180x72 (3.15x7.09x2.83)	2x1/2"-14 NPT	4 X 6mm
4	7005G13	7009G10	PDC Aluminum, EH	80x225x72 (3.15x8.86x2.83)	2x1/2"-14 NPT	4 X 6mm

*Color code RAL 7032, Pebble Gray. Other colors available upon request.

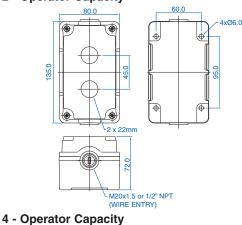
1 - Operator Capacity



3 - Operator Capacity



2 - Operator Capacity



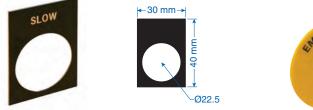
Altech

BOLO Capacity BOLO BOL

All dimensions shown in millimeters. To convert to inches multiply by 0.03937

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22mm Push Button Accessories





EMERGENCY STOP LP41 / 2LP41 (only) Legend plate Ø 60mm yellow with black text. Not to be used with thermoplastic enclosures.



Metal legend plates are engraved on both sides, one side in horizontal and the other side in a vertical orientation.

Please visit altechcorp.com/pb for other available legend plates.

English

Title	Cat No.	Title	Cat No.
AUTO	2LP09	OFF - ON	2LP46
AUTO HAND	2LP32	ON	2LP15
AUTO - MAN	2LP43	ON OFF	2LP30
B PHASE	2LP27	OPEN	2LP07
Blank Aluminum	2LP40	OVER	2LP74
BOTTOM HEAT	2LP101	OXY - ATM - AUTO	2LP58
CLEAR	2LP51	OXY - AUTO - ATM	2LP57
CLOSE	2LP08	POSITION, A B	2LP48
CLUTCH ON/OFF	2LP73	POWER ON	2LP20
Cycle Stop	2LP55	PUSHER CYCLE	2LP104
DOWN	2LP06	R PHASE	2LP25
EMERGENCY STOP	2LP41	RAISE - LOWER	2LP44
Emergency Stop (black)	2LP56	READY	2LP49
Emergency Stop (red)	2LP66	REMOTE	2LP22
FAST	2LP12	RESET	2LP13
FAULT	2LP107	RESET/MANUAL/AUTO	2LP103
FILM FEED	2LP105	REV FWD	2LP31
FOR-OFF-REV	2LP42	REV - OFF - FWD	2LP59
FORWARD	2LP03	REVERSE	2LP04
FWD - REV	2LP47	RIGHT	2LP17
HAND	2LP10	RUN	2LP24
HAND O AUTO	2LP36	SHEAR	2LP70
HOLD	2LP50	SIDE HEAT	2LP102
	2LP34	SLOW	2LP11
I O II	2LP39	SLOW OFF FAST	2LP37
INCH	2LP14	START	2LP01
INFEED	2LP72	START STOP	2LP28
INFEED ON/OFF	2LP71	STOP (red)	2LP02
JOG	2LP69	TEST	2LP23
JOG - RUN	2LP45	TRIP	2LP19
KNIFE CYCLE	2LP106	UNDERLOAD	2LP108
LEFT	2LP18	UP	2LP05
LOCAL	2LP21	UP DOWN	2LP29
LOCAL REMOTE	2LP33	UP OFF DOWN	2LP38
MAN O AUTO	2LP36	YPHASE	2LP26
0 1	2LP35	-	-
OFF	2LP16	Temporary for Custom Imprint	2LPXX

Spanish

Title	Cat No.	Title	Cat No.
ABAJO	2LP06SP	ENCENDIDO	2LP20SP
ABRIR	2LP07SP	ENCENDIDO APAGADO	2LP30SP
ADELANTE	2LP03SP	FALLA	2LP19SP
ADELANTE ATRAS	2LP31SP	FUERA	2LP16SP
ARRANQUE	2LP01SP	IZQUIERDA	2LP18SP
ARRANQUE PARO	2LP28SP	LENTO	2LP14SP
ARRIBA	2LP05SP	LENTO FUERA RAPIDO	2LP37SP
ARRIBA ABAJO	2LP29SP	LOCAL REMOTO	2LP33SP
ARRIBA FUERA ABAJO	2LP38SP	MAN O AUTO	2LP36SP
ATRAS	2LP04SP	MANUAL	2LP10SP
AUTO MAN	2LP32SP	PARO	2LP02SP
CERRAR	2LP08SP	PARO DE EMERGENCIA	2LP41SP
DENTRO	2LP15SP	RAPIDO	2LP12SP
DERECHO	2LP17SP	REARME	2LP13SP

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22mm Push Button Accessories



Altech

Replacement Lens for Illuminated Mushroom Operators				enses for Pilot Ligh vith LED	ts		enses for Illuminate with LED (flush/proje		
	Color	Cat No.		Color	Cat No.		Color	Cat No.	
	White	2ALM1L		White	2PLL1L		White	2LAL1L	
	Green	2ALM3L		Green	2PLL3L		Green	2LAL3L	
	Red	2ALM4L		Red	2PLL4L		Red	2LAL4L	
	Amber	2ALM5L		Amber	2PLL5L		Amber	2LAL5L	
	Blue	2ALM6L		Blue	2PLL6L		Blue	2LAL6L	
	Clear	2ALM7L		Clear	2PLL7L		Clear	2LAL7L	
	Yellow	2ALM8L		Yellow	2PLL8L		Yellow	2LAL8L	
				Lenses for Pilot Lights		Lenses for Illuminated Actuators			
				Choco for Thot Eight	15		.chises for munimute	a Actuators	
В	oots for Booted Act	uators		with Filament Bulb	15		vith Filament Bulb		
В	oots for Booted Act Color	uators Cat No.		-	Cat No.			Cat No.	
B		Cat No.		with Filament Bulb			vith Filament Bulb		
_	Color	Cat No.	_ v	vith Filament Bulb Color	Cat No.		vith Filament Bulb Color	Cat No.	
_	Color White	Cat No. 2BT1	_ v	vith Filament Bulb Color White	Cat No. 2PLL1		vith Filament Bulb Color White	Cat No. 2LAL1	
_	Color White Black	Cat No. 2BT1 2BT2	_ v	vith Filament Bulb Color White Green	Cat No. 2PLL1 2PLL3		vith Filament Bulb Color White Green	Cat No. 2LAL1 2LAL3	
_	Color White Black Green	Cat No. 2BT1 2BT2 2BT3		vith Filament Bulb Color White Green Red	Cat No. 2PLL1 2PLL3 2PLL4		vith Filament Bulb Color White Green Red	Cat No. 2LAL1 2LAL3 2LAL4	
_	Color White Black Green Red	Cat No. 2BT1 2BT2 2BT3 2BT4		with Filament Bulb Color White Green Red Amber	Cat No. 2PLL1 2PLL3 2PLL4 2PLL5 2PLL6		vith Filament Bulb Color White Green Red Amber	Cat No. 2LAL1 2LAL3 2LAL4 2LAL5	
	Color White Black Green Red Blue	Cat No. 2BT1 2BT2 2BT3 2BT4 2BT6		vith Filament Bulb Color White Green Red Amber Blue	Cat No. 2PLL1 2PLL3 2PLL4 2PLL5 2PLL6		vith Filament Bulb Color White Green Red Amber Blue	Cat No. 2LAL1 2LAL3 2LAL4 2LAL5 2LAL6	

Replacement Bulbs

				ED Bulbs	;				
	4			Color 110V AC	Voltage	Cat No.	Color 230V AC	Voltage	Cat No.
	-			White	110V AC	MCB91110	White	230V AC	MCB91230
	112			Green	110V AC	MCB93110	Green	230V AC	MCB93230
	2			Red	110V AC	MCB94110	Red	230V AC	MCB94230
	Ellemen	nt Bulbs		Amber	110V AC	MCB95110	Amber	230V AC	MCB95230
				Blue	110V AC	MCB96110	Blue	230V AC	MCB96230
	Color	Voltage	Cat No.	Yellow	110V AC	MCB98110	Yellow	230V AC	MCB98230
	Clear	12V AC/DC	BA9S12	110V DC			230V DC		
	Clear	24V AC/DC	BA9S24	White	110V DC	MCB91110D	White	230V DC	MCB91230D
	Clear	48V AC/DC	BA9S48	Green	110V DC	MCB93110D	Green	230V DC	MCB93230D
	Clear	110V AC/DC	BA9S110	Red	110V DC	MCB94110D	Red	230V DC	MCB94230D
	Clear	230V AC/DC	BA9S220	Amber	110V DC	MCB95110D	Amber	230V DC	MCB95230D
	LED Bul	he		Blue	110V DC	MCB96110D	Blue	230V DC	MCB96230D
			0.11	Yellow	110V DC	MCB98110D	Yellow	230V DC	MCB98230D
	Color 12V A	Voltage	Cat No.	24V AC/			48V AC/	DC	
	White	12V AC/DC	MCB9112	White	24V AC/DC	MCB9124	White	48V AC/DC	MCB9148
	Green		MCB9312	Green	24V AC/DC	MCB9324	Green	48V AC/DC	MCB9348
	Red	12V AC/DC	MCB9412	Red	24V AC/DC	MCB9424	Red	48V AC/DC	MCB9448
	Amber		MCB9512	Amber	24V AC/DC	MCB9524	Amber	48V AC/DC	MCB9548
	Blue	12V AC/DC	MCB9612	Blue	24V AC/DC	MCB9624	Blue	48V AC/DC	MCB9648
	Yellow		MCB9812	Yellow	24V AC/DC	MCB9824	Yellow	48V AC/DC	MCB9848
_									

Maximum Power Consumption:

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FILAMENT BULBS

Supply Voltage	Power (max) in Watts	Current	Power (max) in Watts	Current
12V	0.5W	max 20mA	2W	max 166mA
24V	0.5W	max 20mA	2W	max 85mA
48V	0.5W	max 20mA	2W	max 45mA
110V	0.5W	max 15mA	2.6W	max 20mA
240V	1W	max 10mA	2.6W	max 20mA

These bulbs are available in various colors and Voltages. A filament bulb can be directly replaced with these LED based bulbs without having to change any other expensive part of your existing lamps.

These bulbs use high brightness LED chips which last for more than 100,000 hours and consume very little power. Heat generated by LED based bulbs is negligible hence no damage to the body of the lamp or any operator in case of Illuminated push buttons.

These bulbs can be used to replace 12V AC/DC, 24V AC/DC, 48V AC/DC, 110V AC or DC and 240V AC or DC circuits directly. LED color indication is given on the bulb for easy identification.

Conforming Standards: UL508, CSA 22.2, IEC 60947-5-1

22mm Push Button Accessories



Push Push mechanism for converting spring return actuator into maintained Cat. No. 2PPM



Cat. No.

Transparent Silicone Rubber Boot for Flush Actuators Color: Clear

2BT7 (for non-illuminated) 2ALBT7 (for illuminated)



Adapter for installing a Ø22.5 device in Ø 30.5 cutout 2ADP (with washer) Cat. No. ADW (washer only)



Rubber Boot for Twin Actuators Color: Clear 2ATBT7 (Non-Illuminated) Cat. No. 2ATLBT7 (illuminated)



Mounting Bracket Cat. No. 2BRK Cat. No. 2BRKT (Thin Bracket for Base Mount Enclosures)



Blanking plug for 22.5 mm holes Black Color: Cat. No. 2BP2 Blanking plug for M20 (20mm)

or NPT 1/2" holes Color: Gray Cat. No. M20 Cat. No. NPT1/2



Padlock For mushroom actuator: For projecting actuator:

Cat. No. 2PAM Cat. No. 2PAP



Bulb Extractor Cat. No. 2BA9SE



E-Stop Shroud Plastic protector: Plastic protector (UL):

Cat. No. 2ESS1 Cat. No. 2ESS1-UL



Bulb Holder for Illuminated Push Buttons Cat. No. 2LHB



Plastic Cover Cat. No. 2PAM7



Rubber Gasket Cat. No. 2PRG1



Replacement Keys For all 22mm operators wth keys

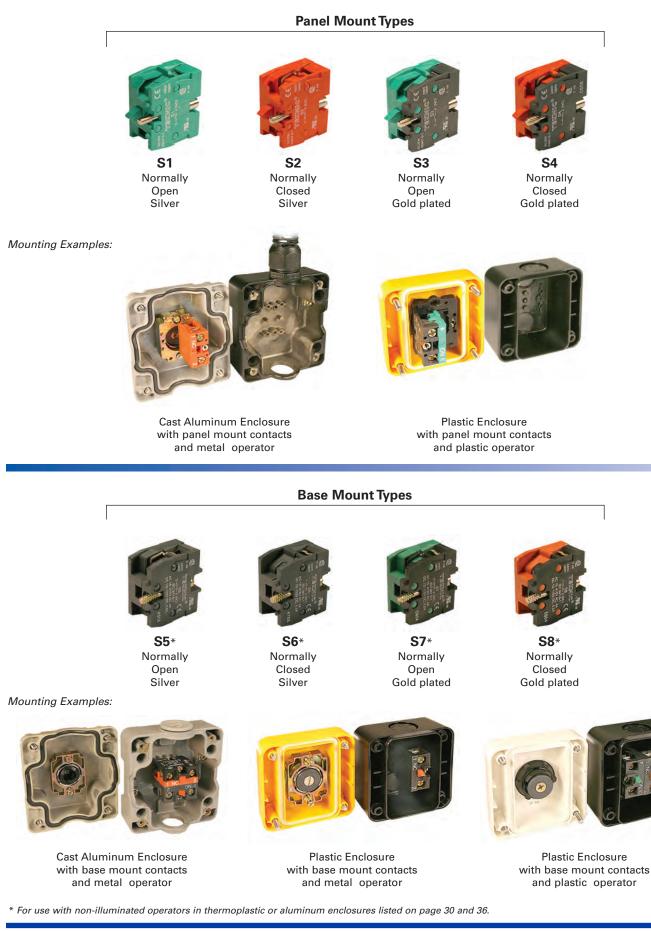
Cat. No. 2KY455



Rubber Boot for Contact Elements Cat. No. 2SEBT2

22mm Push Button Switch Contacts





Pre-assembled or Ready to Assemble Control Stations



Solutions for your applications

Backed by technical and industrial experience, we offer preassembled ready to install or assembled to order control stations. Altech offers several ranges of control stations. From a cost effective plastic enclosure assembled with 22 mm push buttons to a heavy duty cast aluminum enclosure assembled with 22 or 30mm push buttons, you will find the one that fits your application.



High performance and Extensive range

Our basic plastic or Pressure Die Cast aluminum (PDC) enclosures are available with contact blocks mounted on the bracket behind the 22 mm operator or in the rear (base) of the enclosure (see page 41). Altech can assemble the control station to the customer specifications or it can be ordered unassembled. These enclosures are easy to assemble by using any Non-Illuminated operator with a maximum of 2 contacts per operator.

Our plastic enclosures on pages 34-35 can be customized to meet the customer's most demanding applications. These enclosures can be equipped with any 22 mm illuminated or Non-Illuminated operators. Use up to 2 contact blocks with the illuminated operators or up to 4 contact blocks with the Non-illuminated operators.

Our Gravity Die Cast aluminum (GDC) enclosures have an excellent resistance to mechanical shock and vibration. They can be equipped with any illuminated or Non-Illuminated operators. Use up to 2 contact blocks with the illuminated 22mm operators or up to 4 contact blocks with the Non-illuminated 22mm operators. This enclosure can be modified to accept any Non-illuminated 30mm operator or pilot light as well.





Pre-assembled or Ready to Assemble Control Stations



Application specific solutions

These products are suitable for a wide variety of applications. They have an excellent resistance to corrosion and cleaning agents. They are tolerant of high pressure cleaning without leakage. These enclosures combined with our push buttons offer an excellent price/performance ratio.

Our staff has the ability to take your requirements and rapidly turn them into a solution. We use the latest CAD system in our process. Prototypes are available for most application specific requirements.



Sample Part No. 44-200T



Safety and reliability

The majority of the enclosures meet all industrial application requirements from the most common to the most extreme.

They have international certifications such as UL, CE, etc. They conform to IEC standards, have a IP65 rating and NEMA Type 4X protection.

Metal legend plates are engraved on both sides, one side in horizontal and the other side in a vertical orientation.

Save Time

Our control stations save you time, simplify and speed up your installation while maintaining the high quality and appearance of your equipment.

Mounting is easy, the only tool you need is a screwdriver.

