

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.



Table of Contents

Altech

22mm Push Buttons



Introduction - 4-5



22mm Non-Illuminated **Metal Operators** 6-7



22mm Non-Illuminated **Mushroom Metal Operators** 8-11



22mm LED Illuminated **Mushroom Metal Operators**



22mm Twin Touch Non-**Illuminated and LED Illuminated Metal Operators** 14-15



22mm Non-Illuminated Metal **Selector Switch Operators** 16-17



22mm LED Illuminated **Metal Selector Switches** 18-19



22mm LED Illuminated **Projecting Metal Operator** 20-21



22mm LED Illuminated **Flush Metal Operators** 22-23



22mm LED **Metal Pilot Lights**



Economy Non-Illuminated Plastic Push Buttons 26-27

22mm Specifications - 25



Unibody LED Illuminated Plastic Pilot Lights 28-29



22mm Plastic Enclosures, Control **Boxes & Installation Instructions** 30-35



22mm Aluminum **Enclosures** 36-37



22mm Push Button Accessories & Switch Contacts 38-41



Pre-assembled or Ready to **Assemble Control Stations** 42-43





Introduction - 44 30mm Non-Illuminated **Metal Operators**

44-45



30mm LED Illuminated **Metal Operators** 46-47



30mm Non-Illuminated **Metal Selector Switches** 48-49



30mm Non-Illuminated MushroomMetal Operators 50-51



30mm Metal Pilot Lights **52**



30mm Aluminum **Enclosures** 53



30mm Push Button Accessories. **Contact Blocks & Technical Notes** 54-56

Index - 57-60 Terms and Conditions - 62



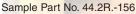
Pre-assembled or Ready to Assemble Control Stations



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.



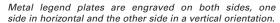
Sample Part No. 44-200T



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.



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.



30mm Metal Push Buttons

The Altech 30mm Push Button line include a complete selection of push buttons, pilot lights and selector switches and accessories. All properly assembled devices are UL and CE Recognized and they certified for NEMA type 4X applications. An internal seal provides watertight integrity and all components are corrosion resistant materials.

Our contact blocks are color coded for an easy assembly and identification (Red=S11, Yellow=S12). Illuminated or Non-Illuminated push buttons in various colors are available for guick delivery.

Selector Switches are available in a 2 or 3 position styles with and option for momentary or maintained function. The pilot lights are full voltage and LED and filament bubs are interchangeable.

Cast aluminum control stations are available to your specifications.

These \emptyset 30 control devices can be mounted in any position in panels of 1 to 6 mm (.039 - .236 in.) thickness.

30mm Non-Illuminated Metal Operators





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

Flush Non-Illuminated Momentary



Color	Function	Cat No.
☐ White	Momentary	AF1
■ Black	Momentary	AF2
Green	Momentary	AF3
Red	Momentary	AF4
■ Blue	Momentary	AF6
Yelllow	Momentary	AF8

Booted Momentary



Color	Function	Cat No.
☐ White	Momentary	AB1
■ Black	Momentary	AB2
Green	Momentary	AB3
Red	Momentary	AB4
■ Blue	Momentary	AB6
☐ Yelllow	Momentary	AB8

Projecting Momentary



Color	Function	Cat No.
□ White	Momentary	AP1
■ Black	Momentary	AP2
Green	Momentary	AP3
Red	Momentary	AP4
■ Blue	Momentary	AP6
Yelllow	Momentary	AP8

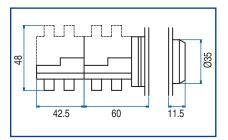
30mm Non-Illuminated Metal Operators

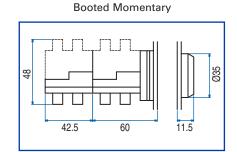


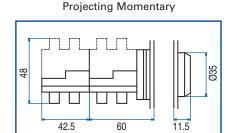
Dimensional Drawings

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

Flush Momentary







Contact Elements

Description Cat. No.

1 Normally Open + 1 Normally Closed S11
Silver Contacts

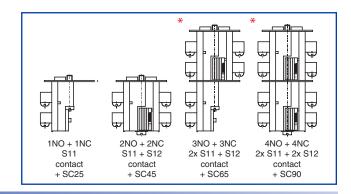
2 Normally Open + 2 Normally Closed S11 + S12 Silver Contacts

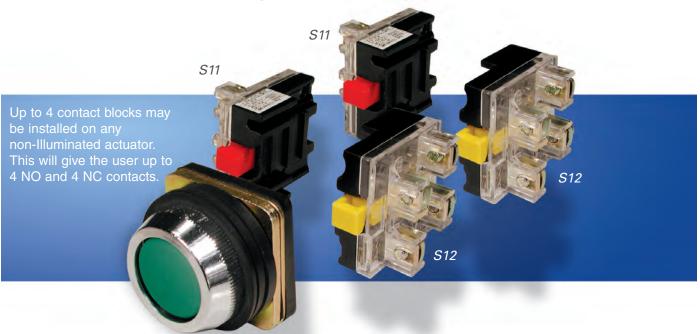
For additional contacts, see diagram at right.

Contact Installation Screws		
Туре	Dimensions	Used with
SC25	M4 x 25 mm	S11
SC45	M4 x 45 mm	S11 + S12
SC65	M4 x 65 mm	2x S11 + S12
SC90	M4 x 90 mm	2x S11 + 2x S12

^{*} When using more than two contact blocks, additional screws must be purchased separately (SC65 and SC90).







30mm Illuminated Metal Operators





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

Flush Illuminated Momentary



Note:

All LED illuminated actuators and pilot lights at a specified voltage will operate on AC and DC. Except for 110V and 230V specify AC or DC type.



<mark>Color</mark> 24V AC/DC <i>(1</i>	Voltage filament bulb)	Cat No.
White	24V AC/DC	ALF1-024
Green	24V AC/DC	ALF3-024
Red	24V AC/DC	ALF4-024
Amber 24V AC/DC		ALF5-024
Blue	24V AC/DC	ALF6-024
Clear	24V AC/DC	ALF7-024
Yelllow	24V AC/DC	ALF8-024
	filament bulb)	ALI O OZ-
White	48V AC/DC	ALF1-048
Green	48V AC/DC	ALF3-048
Red	48V AC/DC	ALF4-048
Amber	48V AC/DC	ALF5-048
Blue	48V AC/DC	ALF6-048
Clear	48V AC/DC	ALF7-048
Yelllow	48V AC/DC	ALF8-048
	(filament bulb)	ALI 0 040
White	110V AC/DC	ALF1-110
Green	110V AC/DC	ALF1-110 ALF3-110
Red	110V AC/DC	ALF3-110 ALF4-110
	110V AC/DC	ALF4-110 ALF5-110
Amber Blue	110V AC/DC	ALF5-110 ALF6-110
Clear	110V AC/DC	ALF7-110 ALF8-110
Yelllow	110V AC/DC	ALF8-110
230V AC (fila		AL E4, 000
White	230V AC	ALF1-230
Green	230V AC	ALF3-230
Red	230V AC	ALF4-230
Amber	230V AC	ALF5-230
Blue	230V AC	ALF6-230
Claar	230V AC	ALF7-230
Yelllow ' DC version is a	230V AC available on request. LED bulb)	ALF8-230
Yelllow / DC version is a 24V AC/DC (I White	available on request. L ED bulb) 24V AC/DC	ALF1LB-024
Yelllow / <i>DC version is a</i> 24V AC/DC (I White Green	available on request. LED bulb) 24V AC/DC 24V AC/DC	ALF1LB-024 ALF3LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red	LED bulb) 24V AC/DC 24V AC/DC 24V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024
Yelllow Y DC version is a 24V AC/DC (I White Green Red	available on request. LED bulb) 24V AC/DC 24V AC/DC	ALF1LB-024 ALF3LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber	LED bulb) 24V AC/DC 24V AC/DC 24V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue	Available on request. LED bulb) 24V AC/DC 24V AC/DC 24V AC/DC 24V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow	Available on request. LED bulb) 24V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I	Available on request. LED bulb) 24V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White	Available on request. LED bulb) 24V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green	Available on request. LED bulb) 24V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048
Yelllow I DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red	Available on request. LED bulb) 24V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048
Yelllow Yellow Yellow Yellow Yellow Amber Blue Clear Yelllow 48V AG/DC White Green Red Amber Blue Clear Yellow Amber Red Amber Red Amber	Available on request. LED bulb) 24V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048
Yelllow ' DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Blue Blue Blue Blue Blue Blue Blue	Available on request. LED bulb) 24V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048
Yelllow ' DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear	Available on request. LED bulb) 24V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF3LB-024 ALF1LB-048 ALF3LB-048 ALF4LB-048 ALF5LB-048 ALF5LB-048 ALF5LB-048
Yelllow ' DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow Yelllow Yellow Yellow Yellow	Available on request. LED bulb) 24V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048
Yelllow ' DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC	Available on request. LED bulb) 24V AC/DC 48V AC/DC (LED bulb)	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-048
Yelllow ' DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 4110V AC/DC	Available on request. LED bulb) 24V AC/DC 48V AC/DC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF3LB-024 ALF1LB-048 ALF3LB-048 ALF4LB-048 ALF5LB-048 ALF5LB-048 ALF5LB-048
Yelllow ' DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 4110V AC/DC White Green White Green	available on request. LED bulb) 24V AC/DC 48V AC/DC 410V AC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-048
Yelllow Yellow Yellow Yellow Yellow White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 410V AC/DC White Green Town Tow	Available on request. LED bulb) 24V AC/DC 48V AC/DC (LED bulb) 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048
Yelllow Yellow Yellow Yellow Yellow Yellow Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 410V AC/DC White Green How How How How How How How Ho	available on request. LED bulb) 24V AC/DC 48V AC/DC 410V AC	ALF1LB-024 ALF3LB-024 ALF4LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048
Yelllow Yellow Yellow Yellow Yellow White Green Red Amber Blue Clear Yelllow Mhite Green Red Amber Blue Clear Yelllow Mhite Green Red Amber Blue Clear Yelllow Mhite Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber	Available on request. LED bulb) 24V AC/DC 48V AC/DC 410V AC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF3LB-110 ALF3LB-110 ALF3LB-110
Yelllow Yellow Yellow Yellow Yellow White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 410V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Blue Clear How How How How How How How Ho	Available on request. LED bulb) 24V AC/DC 48V AC/DC 410V AC 110V AC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF3LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF7LB-048 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow Yelllow Yelllow Yelllow	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC 110V AC 110V AC 110V AC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF3LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-010 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110
24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF8LB-024 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF7LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF7LB-110 ALF7LB-110 ALF8LB-110
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC 110V AC 110V AC 110V AC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF6LB-024 ALF7LB-024 ALF8LB-024 ALF8LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF7LB-110
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE White Green	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC 230V AC* 230V AC*	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF5LB-024 ALF7LB-024 ALF7LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF1LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-130 ALF3LB-230 ALF3LB-230
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yellow 410V AC/DC White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE White	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF5LB-024 ALF7LB-024 ALF8LB-024 ALF8LB-024 ALF3LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF7LB-110 ALF7LB-110 ALF7LB-110 ALF7LB-110 ALF7LB-110 ALF7LB-110 ALF7LB-110 ALF7LB-110
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE White Green	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC 230V AC* 230V AC*	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF5LB-024 ALF7LB-024 ALF7LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF7LB-048 ALF1LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-130 ALF3LB-230 ALF3LB-230
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE White Green Red Amber Blue Clear Yelllow	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF5LB-024 ALF7LB-024 ALF7LB-024 ALF3LB-024 ALF3LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF7LB-048 ALF1LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-130 ALF3LB-230 ALF3LB-230 ALF3LB-230
Yelllow / DC version is a 24V AC/DC (I White Green Red Amber Blue Clear Yelllow 48V AC/DC (I White Green Red Amber Blue Clear Yelllow 110V AC/DC White Green Red Amber Blue Clear Yelllow 230V AC* (LE White Green Red Amber	Available on request. LED bulb) 24V AC/DC 48V AC/DC 110V AC 110V AC	ALF1LB-024 ALF3LB-024 ALF3LB-024 ALF5LB-024 ALF5LB-024 ALF7LB-024 ALF7LB-024 ALF1LB-048 ALF3LB-048 ALF3LB-048 ALF5LB-048 ALF5LB-048 ALF1LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF3LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-110 ALF5LB-130 ALF3LB-230 ALF3LB-230 ALF3LB-230 ALF3LB-230 ALF5LB-230

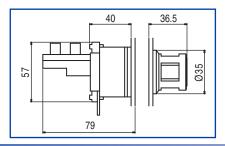
30mm Illuminated Metal Operators



Dimensional Drawings

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

Flush Illuminated Momentary



Contact Elements

Description Cat. No.

1 Normally Open + 1 Normally Closed Silver Contacts

2 Normally Open + 2 Normally Closed Silver Contacts

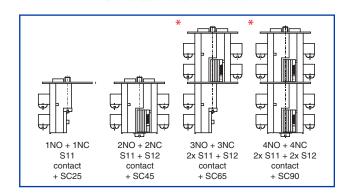
Silver Contacts

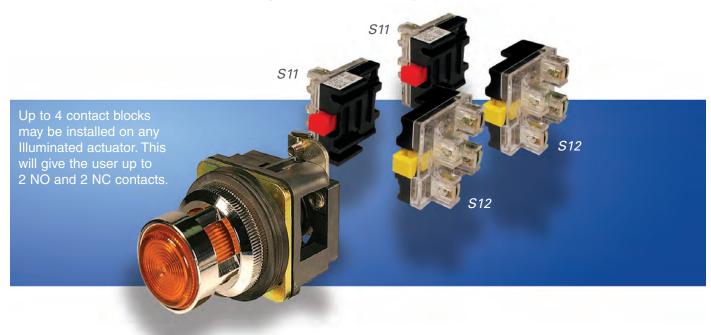
For additional contacts, see diagram at right.

Contact Installation Screws			
Туре	Dimensions	Used with	
SC25	M4 x 25 mm	S11	
SC45	M4 x 45 mm	S11 + S12	
SC65	M4 x 65 mm	2x S11 + S12	
SC90	M4 x 90 mm	2x S11 + 2x S12	

^{*} When using more than two contact blocks, additonal screws must be purchased separately (SC65 and SC90).







30mm Selector Switch Metal Operators





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

Selector Maintained & **Momentary**



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

Color 2 Position Maintained	Cat No.
Black	AS2-2P
3 Position Maintained	
Black	AS2-3P
2 Position Momentary	
Black	AS2-2PSR

Key Selector Switch

Keyed Alike



To be used for applications where single or multiple operators are used, but the same key configurations are required. Standard key selector switches have the same key configuration (Cat. No. KY30).

	Function	Key Removal		Cat No.
	2 Position			
	Maintained	~	Left/Right	AK2-2PB
	Momentary	\sim	Left	AK2-2POSR
	Maintained	~	Right	AK2-2PI
	Maintained	\sim	Left	AK2-2PO
	3 Position			
	Maintained	ŵ	Left/Right	AK2-3PB
	Maintained	ŵ	Center	AK2-3PC
16	Replacement Ke	ev		KY30



Function

Cat No.

Key Selector Switch

Keyed Differently



To be used for applications where multiple operators are used, but different key configurations are required. Each cat. no. have different key configurations.

2 Position			
Maintained	\sim	Left	AK2-2PO-KD
Momentary	⋄	Left	AK2-2PO-KD1
Maintained	\sim	Left	AK2-2PO-KD2
Maintained	\sim	Left	AK2-2PO-KD4
Maintained	\sim	Left	AK2-2PO-KD5
3 Position			
Maintained	Ŷ	Center	AK2-3PC-KD
Maintained	Ŵ	Center	AK2-3PC-KD1
Maintained	ŵ	Center	AK2-3PC-KD2
Maintained	Ŵ	Center	AK2-3PC-KD3

Key Removal

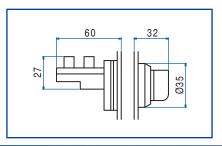
30mm Selector Switch Metal Operators



Dimensional Drawings

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

Flush Maintained and Momentary



29

60

Key Selector

Contact Elements

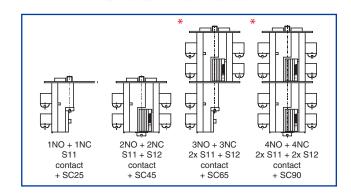
Description	Cat. No.
1 Normally Open + 1 Normally Closed Silver Contacts	S11
2 Normally Open + 2 Normally Closed Silver Contacts	S11 + S12

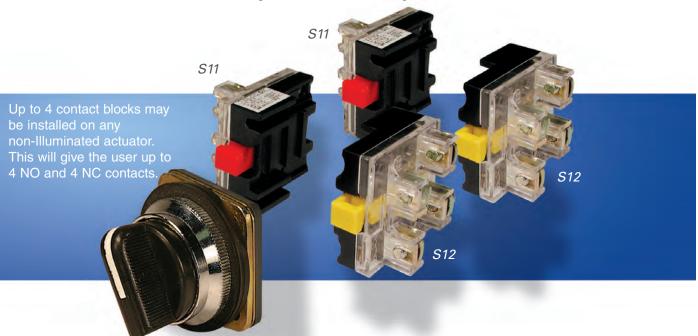
For additional contacts, see diagram at right.

Contact Installation Screws		
Туре	Dimensions	Used with
SC25	M4 x 25 mm	S11
SC45	M4 x 45 mm	S11 + S12
SC65	M4 x 65 mm	2x S11 + S12
SC90	M4 x 90 mm	2x S11 + 2x S12

^{*} When using more than two contact blocks, additional screws must be purchased separately (SC65 and SC90).







30mm Non-Illuminated Metal Operators





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

Mushroom with Key



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

Color	Function	Cat No.
Press to Lo	ck, Key to Release	
■ Black	Maintained	AMLKB2
Red	Maintained	AMLKB4
Key to Loci	k, Key to Release	
■ Black	Maintained	AMKB2
Red	Maintained	AMKB4

Mushroom with Indicating Arrows (Press to lock, turn to release.)



Other colors are available on request.

Color	Function	Cat No.
Press to Lo	ock, Turn to Release	
■ Black	Maintained	AML2
Red	Maintained	AML4

Mushroom Momentary



Color	Function	Cat No.
☐ White	Momentary	AM1
■ Black	Momentary	AM2
Green	Momentary	AM3
Red	Momentary	AM4
■ Blue	Momentary	AM6
Yellow	Momentary	AM8

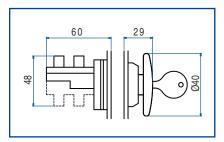
30mm Non-Illuminated Metal Operators



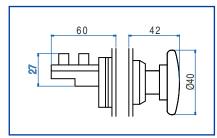
Dimensional Drawings

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

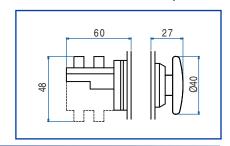
Mushroom with Key



Mushroom with Indicating Arrows



Mushroom Momentary



Contact Elements

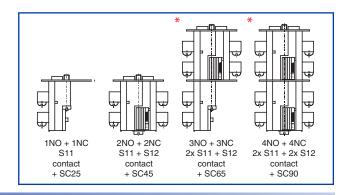
Description	Cat. No.
1 Normally Open + 1 Normally Closed Silver Contacts	S11
2 Normally Open + 2 Normally Closed Silver Contacts	S11 + S12

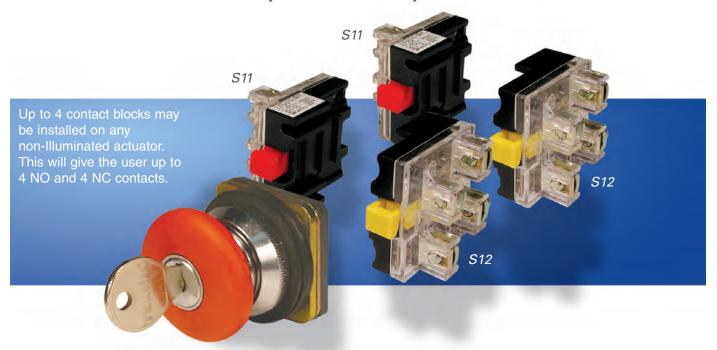
For additional contacts, see diagram at right.

Contact Installation Screws		
Туре	Dimensions	Used with
SC25	M4 x 25 mm	S11
SC45	M4 x 45 mm	S11 + S12
SC65	M4 x 65 mm	2x S11 + S12
SC90	M4 x 90 mm	2x S11 + 2x S12

^{*} When using more than two contact blocks, additional screws must be purchased separately (SC65 and SC90).







30mm Metal Pilot Lights





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

Pilot Light

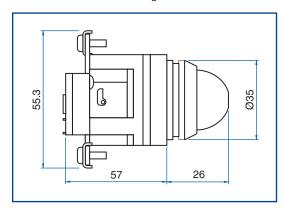


Note:

All LED pilot lights and illuminated actuators at a specified voltage will operate on AC and DC. Except for 110 and 230V specify AC or DC type.

Dimensional Drawings

Pilot Light





	Voltage	Cat No.
24V AC/DC (fi	lament bulb)	
White	24V AC/DC	PLB1-024
Green	24V AC/DC	PLB3-024
Red	24V AC/DC	PLB4-024
Amber	24V AC/DC	PLB5-024
Blue	24V AC/DC	PLB6-024
Clear	24V AC/DC	PLB7-024
Yelllow 48V AC/DC <i>(fi</i>	24V AC/DC	PLB8-024
White	48V AC/DC	PLB1-048
Green	48V AC/DC	PLB3-048
Red	48V AC/DC	PLB4-048
Amber	48V AC/DC	PLB5-048
Blue	48V AC/DC	PLB6-048
Clear	48V AC/DC	PLB7-048
Yelllow	48V AC/DC	PLB8-048
	filament bulb)	
White	110V AC/DC	PLB1-110
Green	110V AC/DC	PLB3-110
Red	110V AC/DC	PLB4-110
Amber	110V AC/DC	PLB5-110
Blue	110V AC/DC	PLB6-110
Clear	110V AC/DC	PLB7-110
Yelllow	110V AC/DC	PLB8-110
230V AC/DC (filament bulb)	
White	230V AC/DC	PLB1-230
Green	230V AC/DC	PLB3-230
Red	230V AC/DC	PLB4-230
Amber	230V AC/DC	PLB5-230
Blue	230V AC/DC	PLB6-230
Clear Yelllow	230V AC/DC 230V AC/DC	PLB7-230 PLB8-230
Color	Voltage	Cat No.
Color 24V AC/DC <i>(L</i>	ED bulb)	
Color 24V AC/DC <i>(L</i> White	ED bulb) 24V AC/DC	PLB1LB-024
Color 24V AC/DC (L White Green	ED bulb) 24V AC/DC 24V AC/DC	PLB1LB-024 PLB3LB-024
Color 24V AC/DC <i>(L</i> White Green Red	ED bulb) 24V AC/DC 24V AC/DC 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024
Color 24V AC/DC (L White Green Red Amber	ED bulb) 24V AC/DC 24V AC/DC 24V AC/DC 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024
Color 24V AC/DC (L White Green Red Amber Blue	ED bulb) 24V AC/DC 24V AC/DC 24V AC/DC 24V AC/DC 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024
Color 24V AC/DC (L White Green Red Amber Blue Clear	ED bulb) 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow	ED bulb) 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L	ED bulb) 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White	ED bulb) 24V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green	ED bulb) 24V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber	ED bulb) 24V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC 48V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048
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Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear	ED bulb) 24V AC/DC 48V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-048 PLB6LB-048
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Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow	ED bulb) 24V AC/DC 48V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-048 PLB6LB-048 PLB7LB-048 PLB7LB-048
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 110V AC/DC (W White	ED bulb) 24V AC/DC 48V AC/DC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB6LB-048 PLB6LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 4110V AC/DC (M White Green	ED bulb) 24V AC/DC 48V AC/DC 410V AC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB6LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 110V AC/DC (I White Green Red	ED bulb) 24V AC/DC 48V AC/DC 410V AC 110V AC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB6LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048 PLB7LB-048
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Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow Tilloy How	ED bulb) 24V AC/DC 48V AC/DC 110V AC 110V AC 110V AC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-048 PLB6LB-110 PLB3LB-110 PLB3LB-110 PLB5LB-110 PLB5LB-110 PLB6LB-110
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 45V AC/DC (L White Green Red Amber Blue Clear Yelllow 110V AC/DC (I White Green Red Amber Blue Clear	ED bulb) 24V AC/DC 48V AC/DC 410V AC 110V AC 110V AC 110V AC 110V AC	PLB1LB-024 PLB3LB-024 PLB3LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB8LB-048 PLB3LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-048 PLB7LB-048 PLB7LB-110 PLB3LB-110 PLB3LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB7LB-110 PLB7LB-110
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 110V AC/DC (White Green Red Amber Blue Clear Yelllow 110V AC/DC (White Green Red Amber Blue Clear Yelllow Yelllow Clear Yelllow	ED bulb) 24V AC/DC 48V AC/DC 110V AC 110V AC 110V AC 110V AC 110V AC	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-048 PLB6LB-110 PLB3LB-110 PLB3LB-110 PLB5LB-110 PLB5LB-110 PLB6LB-110
Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 110V AC/DC (W White Green Red Amber Blue Clear Yelllow 110V AC/DC (W White Green Red Amber Blue Clear Yelllow 230V AC* (LEI	ED bulb) 24V AC/DC 48V AC/DC 110V AC	PLB1LB-024 PLB3LB-024 PLB3LB-024 PLB5LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB8LB-024 PLB8LB-024 PLB1LB-048 PLB3LB-048 PLB5LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-048 PLB7LB-110 PLB3LB-110 PLB3LB-110 PLB4LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB6LB-110 PLB7LB-110 PLB7LB-110 PLB7LB-110
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Color 24V AC/DC (L White Green Red Amber Blue Clear Yelllow 48V AC/DC (L White Green Red Amber Blue Clear Yelllow 110V AC/DC (White Green Red Amber Blue Clear Yelllow 230V AC* (LEI White Green Red Amber	ED bulb) 24V AC/DC 48V AC/DC 110V AC 110V AC 110V AC 110V AC 110V AC 110V AC 230V AC* 230V AC* 230V AC* 230V AC* 230V AC*	PLB1LB-024 PLB3LB-024 PLB4LB-024 PLB5LB-024 PLB5LB-024 PLB6LB-024 PLB7LB-024 PLB1LB-048 PLB3LB-048 PLB4LB-048 PLB5LB-048 PLB5LB-048 PLB6LB-110 PLB3LB-110 PLB3LB-110 PLB4LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-110 PLB5LB-130 PLB5LB-230 PLB1LB-230 PLB5LB-230 PLB5LB-230

Aluminum Enclosures for 30mm Operators







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

Aluminum (72mm Height)
Pressure Die Cast



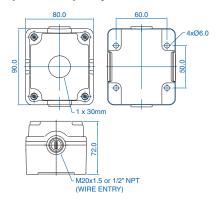




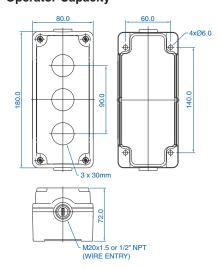


Cat. No.	Operator Capacity	Color Top/ Bottom	Construction	Dimensions (LxWxH) mm (in.)	Cable Entry Size	Mounting Hole Dia.
7011A13	1	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x90x72 (3.15x3.54x2.83)	2xM20	4 X 6mm
7008C13	2	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x135x72 (3.15x5.32x2.83)	2xM20	4 X 6mm
7006E13	3	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x180x72 (3.15x7.09x2.83)	2xM20	4 X 6mm
7006G13	4	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x225x72 (3.15x8.86x2.83)	2xM20	4 X 6mm
7012A13	1	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x90x72 (3.15x3.54x2.83)	2x1/2"-14 NPT	4 X 6mm
7009C13	2	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x135x72 (3.15x5.32x2.83)	2x1/2"-14 NPT	4 X 6mm
7007E13	3	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x180x72 (3.15x7.09x2.83)	2x1/2"-14 NPT	4 X 6mm
7007G13	4	Black/Pebble Gray (RAL 7032)	PDC Aluminum	80x225x72 (3.15x8.86x2.83)	2x1/2"-14 NPT	4 X 6mm

1 - Operator Capacity

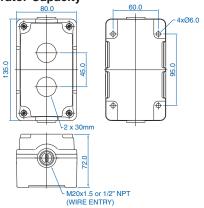


3 - Operator Capacity

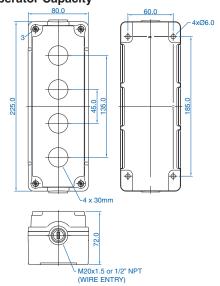


All dimensions shown in millimeters. To convert to inches multiply by 0.03937

2 - Operator Capacity

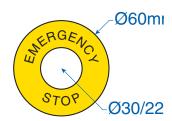


4 - Operator Capacity



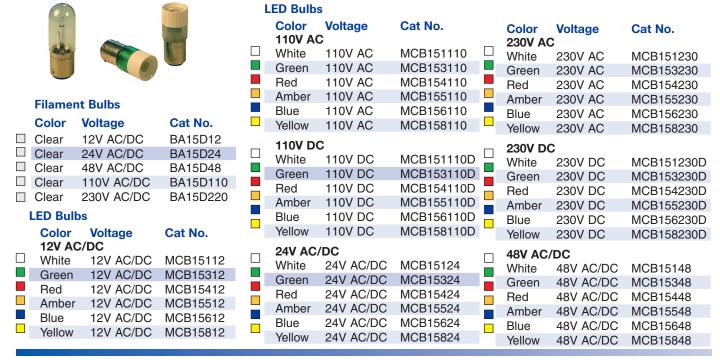
30mm Push Button Accessories





Title AUTO	Cat No. LP09	Title OVER	Cat No. LP74
CLOSE	LP08	POWER ON	LP20
DOWN	LP07	RESET	LP13
EMERGENCY STOP	LP41	REVERSE	LP04
FAST	LP12	RIGHT	LP17
HAND	LP10	RUN	LP24
HAND, O, AUTO	LP36	SLOW	LP11
INCH	LP14	START	LP01
LEFT	LP18	STOP (red)	LP02
OFF	LP16	TRIP	LP19
ON	LP15	UNDER LOAD	LP108
OPEN	LP07		

Replacement Bulbs



Maximum Power Consumption:

	LED		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	5W	max 105mA
110V	0.5W	max 20mA	5W	max 45mA
240V	1W	max 20mA	6W	max 25mA

These bulbs are available in various colors and voltages. LED based bulbs are a direct replacement for filament bulbs and do not require having to change any other components in your existing operator or pilot light.

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, therefore no damage to the body of the lamp or any operator in case of Illuminated push buttons occurs.

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.



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

Cat No.

Lenses and Replacement Boots

Lenses for pilot lights

Lenses for illuminated actuators



Color	Cat No.	w/ bushing	Color	Cat No.
White	PLL1	_	White	ALL1
Green	PLL3	PLLA3	Green	ALL3
Red	PLL4	PLLA4	Red	ALL4
Amber	PLL5	-	Amber	ALL5
Blue	PLL6	_	Blue	ALL6
Clear	PLL7	-	Clear	ALL7
Yellow	PLL8	_	Yellow	ALL8



Padlock

For mushroom actuator: Cat. No. PAM For projecting actuator: Cat. No. PAP



Actuator Lock Plate

Cat. No.: ALP101



Color Cat No. □ White BT1 ■ Black BT2 ■ Green BT3 ■ Red BT4 ■ Blue BT6

BT8

Rubber Boots for Booted Actuators



1.2mm Actuator Rubber Washer

Cat. No.: ARW1.2

3.2mm Actuator Rubber Washer

Cat. No.: ARW3.2



Replacement Key

Cat. No.: KY30

Yellow



Bulb Extractor

Cat. No.: 2BA9SE



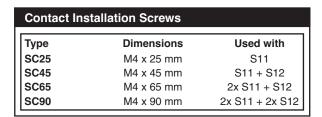
Contact Block Installation Screws

Cat #.	Dimensions	Used With
SC25	M4 x 25 mm	S11 only
SC45	M4 x 45 mm	S11 + S12 (2NO + 2NC)
SC65	M4 x 65 mm	2 x S11 + S12 (3NO +3NC)
SC90	M4 x 90 mm	2 x S11 + 2 x S12 (4NO+4NC)

Contact Elements

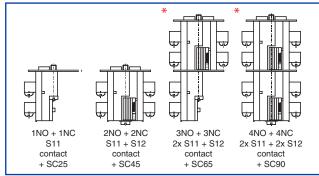
Description	Cat. No.
1 Normally Open + 1 Normally Closed Silver Contacts	S11
2 Normally Open + 2 Normally Closed Silver Contacts	S11 + S12

For additional contacts, see diagram at right.



^{*} When using more than two contact blocks, additional screws must be purchased separately (SC45 and SC90).





30mm Technical Notes

Characteristics

Environment

Temperature Range		-25°C to +70°C (-13°F to +158°F)
Degree of protection:	IEC 529	IP65
	UL50	NEMA Type 4X, 12
Mechanical Life	All push buttons	1 million of cycles
	except maintained mushroom	
	maintained mushroom	0.3 million of cycles

Mechanical Characteristics of contact elements

Contact Operation	NO+NC	Double break, self-wiping
Rated Insulation Voltage		500 V AC
Operating Travel	Push buttons	Changing NC state 2.4mm Changing NO state 4.3mm Travel 8.7mm
Terminal Capacity	Wiring	2x1.5 sq.mm (2x16 AWG) or 1x2.5 sq.mm (14 AWG)
Contact Material	Bimetal (Cu/Ag)	Standard single element
Short Circuit Protection		10A HRC fuse
Rated Make Break	UL508, AC: A600; 600V, 1.2A DC: Q600; 600V, 0.1A	standard block with screw clamp terminals 415V AC, 4A standard block with screw clamp terminals 220V AC, 0.5A
Dielectric Strength	Push Buttons, Pilot Lights	2500V for 1 minute

Torque Specifications

Contact block to operator screws	0.5 Nm (4.5 lbs. in.)
Terminal screws (wiring)	0.8 Nm (7.2 lbs. in.)