

22mm LED Illuminated Operators & Pilot Lights



Included LED Bulb, Bulb Holder, Mounting Hardware



Selector



Projecting Momentary



Flush Momentary



Twin Touch



LED Pilot Light

Selector Switch

Push buttons

LED Pilot Lights

Color	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
White	2ASL1LB-X-XXX	2ALP1LB-XXX	2ALF1LB-XXX		2PLB1LB-XXX
Green	2ASL3LB-X-XXX	2ALP3LB-XXX	2ALF3LB-XXX	Green/Red	2PLB3LB-XXX
Red	2ASL4LB-X-XXX	2ALP4LB-XXX	2ALF4LB-XXX	2ATL5LB F3F4-XXX	2PLB4LB-XXX
Amber	2ASL5LB-X-XXX	2ALP5LB-XXX	2ALF5LB-XXX		2PLB5LB-XXX
Blue	2ASL6LB-X-XXX	2ALP6LB-XXX	2ALF6LB-XXX		2PLB6LB-XXX
Clear*	2ASL7LB-X-XXX*	2ALP7LB-XXX*	2ALF7LB-XXX*		2PLB7LB-XXX*
Yellow	2ASL8LB-X-XXX	2ALP8LB-XXX	2ALF8LB-XXX		2PLB8LB-XXX

*Supplied with yellow LED



No.	Color
1	White
3	Green
4	Red
5	Amber
6	Blue
7	Clear
8	Yellow

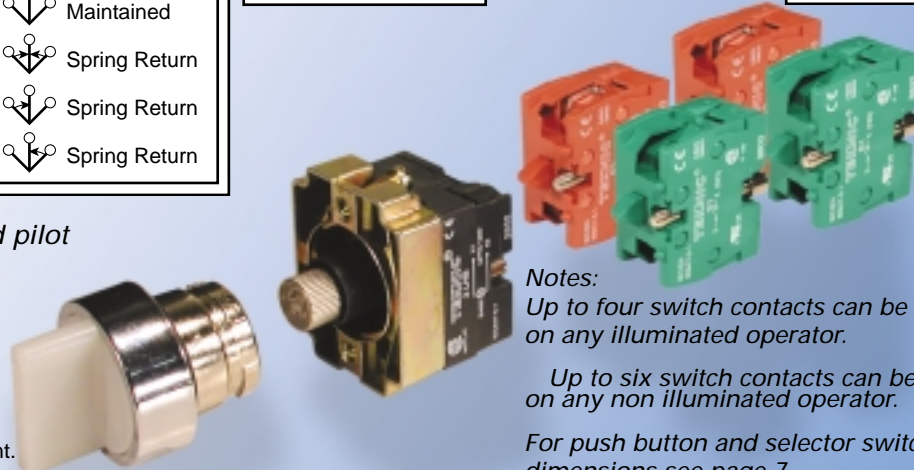
Ser. No.	Function
1	Maintained
2	Spring Return
3	Maintained
4	Spring Return
5	Spring Return
6	Spring Return

Voltage Codes	
012	= 12VAC/DC
024	= 24VAC/DC
048	= 48VAC/DC
110	= 110VAC/DC
230	= 230VAC/DC

Note:
All LED pilot lights and illuminated actuators at a specified voltage will operate on either AC or DC.

Voltage Codes	
012	= 12VAC/DC
024	= 24VAC/DC
048	= 48VAC/DC
110	= 110VAC/DC
230	= 230VAC/DC

All illuminated operators and pilot lights are supplied with LED.



Notes:
Up to four switch contacts can be installed on any illuminated operator.

Up to six switch contacts can be installed on any non illuminated operator.

For push button and selector switch dimensions see page 7.



Certified for type 4X, 12 environment.

30 mm Push Buttons



Flush
Non Illuminated
Momentary



Flush
Illuminated
Momentary



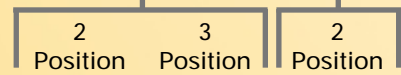
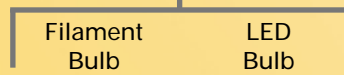
Booted
Momentary



Projecting
Momentary



Selector
Maintained
Momentary



Color	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
White	AF1	ALF1-XXX	ALF1LB-XXX	AB1	AP1	AS2-2P	AS2-3P	AS2-2PSR
Black	AF2			AB2	AP2			
Green	AF3	ALF3-XXX	ALF3LB-XXX	AB3	AP3			
Red	AF4	ALF4-XXX	ALF4LB-XXX	AB4	AP4			
Amber		ALF5-XXX	ALF5LB-XXX					
Blue	AF6	ALF6-XXX	ALF6LB-XXX	AB6	AP6			
Clear*		ALF7-XXX	ALF7LB-XXX*					
Yellow	AF8	ALF8-XXX	ALF8LB-XXX	AB8	AP8			

* ALF7LB-XXX supplied with yellow LED

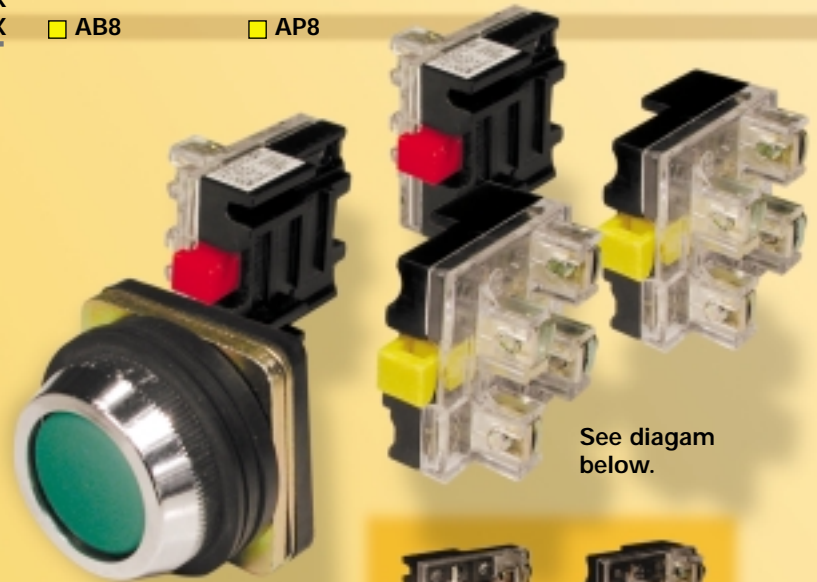
Note:
All LED pilot lights and illuminated actuators at a specified voltage will operate on either AC or DC.

Voltage Codes	
024	= 24V AC/DC
048	= 48V AC/DC
110	= 110V AC/DC
230	= 230V AC/DC



Certified for type 4X, 12 environment.

Note:
Up to 4 contact blocks may be installed on any non illuminated actuator. This will give the user up to 4 NO and 4 NC contacts. With an illuminated actuator (ALF series), 2 contact blocks may be installed.



See diagram below.



S11

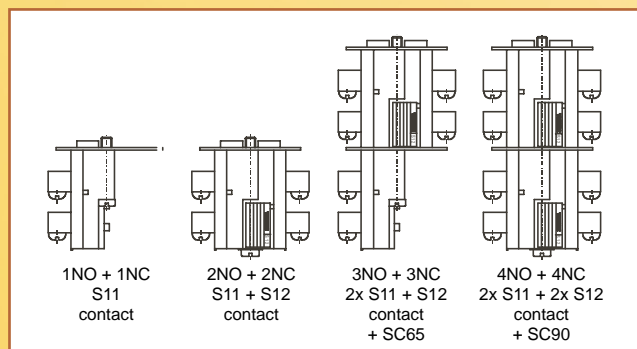
S12

30 mm 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		
Type	Dimensions	Used with
SC25	M4 x 25 mm	S11
SC45	M4 x 45 mm	S12, S11 + S12
SC65	M4 x 65 mm	2x S11 + S12
SC90	M4 x 90 mm	2x S11 + 2x S12



30 mm Push Buttons



Mushroom with Key



Mushroom with Indicating Arrows

Press to Lock,
Turn to Release



Mushroom Momentary



Key

Press to Lock, Key to Release Key to Lock, Key to Release

Cat. No.

Cat. No.

Cat. No.

Cat. No.

Cat. No.

■ AMLKB2

■ AMKB2

■ AML2

□ AM1

■ AM2

■ AK2-XXXXX

■ AMLKB4

■ AMKB4

■ AML4

■ AM3

■ AM4

■ AM6

■ AM8

Characteristics

Environment

Ambient Temperature	Storage	deg C	-25 to +70
Degrees of Protection	Conforming to IEC 529		IP65
Mechanical Life in millions of operating cycles	All push buttons except maintained mushroom		1
	maintained mushroom		0.3

Mechanical Characteristics of contact elements

Contact Operation	NC+NO	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	Cablings	2x1.5 sq.mm (2x16 AWG) or 1x2.5 sq.mm (14 AWG)
Contact Material	Bimetal (Cu/Ag)	Standard single element
Short Circuit Protection	Conforming to IS6875-II	10A HRC fuse
Rated Make Break	UL508, A600 Q600, ratings	standard block with screw clamp terminals 415V, 10A standard block with screw clamp terminals 220V, 2A
Dielectric Strength	Push Buttons, Pilot Lights	2500V for 1 minute

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Function Codes

Ser. No.	Function
2PB	Maintained
2POSR	Momentary
2PI	Maintained
2PO	Maintained
3PB	Maintained
3PC	Maintained

Key Removal

Function
Both Positions
Left Position
Right Position
Left Position
Left and Right Position
Center Position



Certified for type 4X, 12 environment.

Note:
All LED pilot lights and illuminated actuators at a specified voltage will operate on either AC or DC.



Pilot Lights

Color

Filament Cat. No.

LED Cat. No.

- [X] [X] [X]

- White
- Green
- Red
- Amber
- Blue
- Clear
- Yellow

- PLB1-XXX
- PLB3-XXX
- PLB4-XXX
- PLB5-XXX
- PLB6-XXX
- PLB7-XXX
- PLB8-XXX

- PLB1LB-XXX
- PLB3LB-XXX
- PLB4LB-XXX
- PLB5LB-XXX
- PLB6LB-XXX
- PLB7LB-XXX*
- PLB8LB-XXX

Voltage Codes

024	= 24VAC/DC
048	= 48VAC/DC
110	= 110VAC/DC
230	= 230VAC/DC

* supplied with yellow LED