Altech®

22 mm Push Buttons AT A GLANCE

Order Catalog PN- 255

Control and Signaling 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
- 10A contact blocks sold separately

c SP us c UL us E225660 CE DVE

Certified for NEMA Type 4X 12 environment.

22mm Non-Illuminated Metal Operators

mounting bracket included / contact blocks sold separately

☐ (white) 1 ■ 2 ■ 3 ■ 4 ■ 6 ■ 8 *Add color number into part number* ❑

	Flush Momentary	Booted Momentary	Projecting Momentary	Recessed Momentary
	2AF❑	2AB❑	2AP❑	2AF❑RH
	Mushroom Momentary	**Mushroom Momentary**	**Mushroom Push-Pull**	**Mushroom Push-Pull**
	40 mm head	60 mm head	40 mm head	60 mm head
	2AM❑	2AMJ❑	2AMPP❑	2AMPPJ❑
	Mushroom Push-Turn	**Mushroom Push-Turn**	**Mushroom Push-Turn**	**Mushroom Key Release**
	30 mm head	40 mm head	60 mm head	40 mm head
	2AMLS❑	2AML❑	2AMLJ❑	2AMLKB❑

22mm Twin Touch Metal Non-Illuminated Operators

mounting bracket included / contact blocks is sold separately

Twin Touch/ Not Marked Twin Touch I-O Marked

Color	Style	Not Marked Cat. No.	I.D. Marked Cat. No.
GREEN-RED	Flush	2ATF3-F4	2ATF3-F4-I0
YELLOW-BLACK	Flush	2ATF8-F2	2ATF8-F2-I0
BLACK-WHITE	Flush	2ATF2-F1	2ATF2-F1-I0*
GREEN-RED	Green Flush, Red Projecting	2ATF3-P4	2ATF3-P4-I0
YELLOW-BLACK	Yellow Flush, Black Projecting	2ATF8-P2	2ATF8-P2-I0
WHITE-BLACK	White Flush, Black Projecting	2ATF1-P2	2ATF1-P2-I0*

Arrows marking available upon request. *Comply with vision impaired requirements.

22mm Twin Touch Metal LED Illuminated and Non-Illuminated Operators

mounting bracket included / contact blocks sold separately

Twin Touch/ Not Marked Twin Touch I-O Marked

Color	Voltage	Not Marked Cat. No.	I.D. Marked Cat. No.
GREEN-RED, Flush, Illuminated Center			
Green-Red	12V AC/DC	2ATL5LB F3F4-012	2ATL5LB F3F4-I0-012
Green-Red	24V AC/DC	2ATL5LB F3F4-024	2ATL5LB F3F4-I0-024
Green-Red	48V AC/DC	2ATL5LB F3F4-048	2ATL5LB F3F4-I0-048
Green-Red	110V AC**	2ATL5LB F3F4-110	2ATL5LB F3F4-I0-110
Green-Red	230V AC**	2ATL5LB F3F4-230	2ATL5LB F3F4-I0-230
GREEN-RED, Green Flush/ Red Projecting, Illuminated center			
Green-Red	12V AC/DC	2ATL5LB F3P4-012	2ATL5LB F3P4-I0-012
Green-Red	24V AC/DC	2ATL5LB F3P4-024	2ATL5LB F3P4-I0-024
Green-Red	48V AC/DC	2ATL5LB F3P4-048	2ATL5LB F3P4-I0-048
Green-Red	110V AC**	2ATL5LB F3P4-110	2ATL5LB F3P4-I0-110
Green-Red	230V AC**	2ATL5LB F3P4-230	2ATL5LB F3P4-I0-230
WHITE-BLACK*, Flush, Illuminated Center			
white-black	12V AC/DC	–	2ATL5LB F2F1-I0-012
white-black	24V AC/DC	–	2ATL5LB F2F1-I0-024
white-black	48V AC/DC	–	2ATL5LB F2F1-I0-048
white-black	110V AC**	–	2ATL5LB F2F1-I0-110
white-black	230V AC**	–	2ATL5LB F2F1-I0-230

22mm LED Illuminated Metal Operators

with LED bulb, bulb holder and mounting bracket / contact blocks sold separately

☐ (white) 1 ■ 3 ■ 4 ■ 5 ■ 6 ☐ (clear) 7 ■ 8

Add color number into part number ❑

Voltage	Description	Mushroom Momentary Cat. No.	Mushroom Push-Pull Cat. No.
12V AC/DC	40mm Head, 12V AC/DC	2ALM❑LB-012	2ALMPP❑LB-012
24V AC/DC	40mm Head, 24V AC/DC	2ALM❑LB-024	2ALMPP❑LB-024
48V AC/DC	40mm Head, 48V AC/DC	2ALM❑LB-048	2ALMPP❑LB-048
110V AC*	40mm Head, 110V AC*	2ALM❑LB-110	2ALMPP❑LB-110
230V AC*	40mm Head, 230V AC*	2ALM❑LB-230	2ALMPP❑LB-230

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

22mm Illuminated Metal Operators

bulb, bulb holder and mounting bracket included / contact blocks sold separately

☐ (white) 1 ■ 3 ■ 4 ■ 5 ■ 6 ☐ (clear) 7 ■ 8

Add color number into part number ❑

Voltage	Flush Momentary Cat. No.	Projecting Momentary Cat. No.
12V AC/DC	2ALF❑LB-012	2ALP❑LB-012
24V AC/DC	2ALF❑LB-024	2ALP❑LB-024
48V AC/DC	2ALF❑LB-048	2ALP❑LB-048
110V AC	2ALF❑LB-110	2ALP❑LB-110
110V DC	2ALF❑LB-110D	2ALP❑LB-110D
230V AC	2ALF❑LB-230	2ALP❑LB-230
230V DC	2ALF❑LB-230D	2ALP❑LB-230D

22mm LED Metal Pilot Lights

bulb, bulb holder and mounting bracket included / contact blocks sold separately

☐ (white) 1 ■ 3 ■ 4 ■ 5 ■ 6 ☐ (clear) 7 ■ 8

Add color number into part number ❑

Voltage	Cat. No.
12V AC/DC	2PLB❑LB-012
24V AC/DC	2PLB❑LB-024
48V AC/DC	2PLB❑LB-048
10V AC	2PLB❑LB-11010
110V DC	2PLB❑LB-110D
230V AC	2PLB❑LB-230
230V DC	2PLB❑LB-230D

Economy Non-Illuminated Plastic Push Buttons Operators

with LED bulb, bulb holder and mounting bracket

☐ (white) 1 ■ 3 ■ 4 ■ 5 ■ 6 ☐ (clear) 7 ■ 8

Add color number into part number ❑

Momentary	Cat No.
Flush, 1NO Contact	3PSF❑10
Flush, 1NC Contact	3PSF❑01
Flush, 1NO + 1NC Contact	3PSF❑11
Flush, 2NO Contact	3PSF❑20
Flush, 2NC Contact	3PSF❑02
Maintained	**Cat No.**
Flush, 1NO Push-Push	3PSFPP❑10
Flush, 1NC Push-Push	3PSFPP❑01
Flush, 1NO + 1NC Push-Push	3PSFPP❑11
Flush, 2NO Push-Push	3PSPP❑20
Flush, 2NC Push-Push	3PSPP❑02

Unibody LED Indicator Plastic Pilot Lights *with integral LED / contacts included*

Voltage	Cat. No.
12V AC/DC	3PLBR❑-012
24V AC/DC	3PLBR❑-024
48V AC/DC	3PLBR❑-048
110V AC*	3PLBR❑-110
230V AC*	3PLBR❑-230

Add color number into part number ❑

Lens / LED: 1L, 1LS, 3L, 4L, 34L, 5L, 6L, 7L, 7LS, 8L

22mm LED Illuminated Metal Selector Switch Operators *with LED bulb, bulb holder and mounting bracket*

☐ (white) 1 ■ 3 ■ 4 ■ 5 ■ 6 ☐ (clear) 7 ■ 8

Add color number into part number ❑



Function	Cat No.
2 Position, Maintained	2ASL❑LB-1-XXX
2 Position, Spring Return	2ASL❑LB-2-XXX
3 Position, Maintained	2ASL❑LB-3-XXX
3 Position, Spring return from left and right	2ASL❑LB-4-XXX
3 Position, Spring return from right	2ASL❑LB-5-XXX
3 Position, Spring return from left	2ASL❑LB-6-XXX

XXX = Voltage Codes

012	= 12V AC/DC	110D	= 110V DC
024	= 24V AC/DC	230	= 230V AC
048	= 48V AC/DC	230D	= 230V DC
110	= 110V AC		

22mm Non-Illuminated Metal Selector Switch Operators *with mounting bracket*





	Function	Key Removal	Cat No.
	Maintained	Left/Right	2AK2-01
	Maintained	Left	2AK2-02
	Maintained	Right	2AK2-03
	Spring Return	Left	2AK2-04
	Maintained	Left/Right	2AK2-05
	Maintained	All	2AK2-06
	Maintained	Center	2AK2-07
	Spring Return	Center	2AK2-08
	Spring Return	Center	2AK2-09
	Spring Return	Center	2AK2-10
	Maintained	Left	2AK2-11
	Replacement Key		2KY455

	Function	Cat No.
	Maintained	2AS2-1
	Spring Return	2AS2-2
	Maintained	2AS2-3
	Spring Return	2AS2-4
	Spring Return	2AS2-5
	Spring Return	2AS2-6

	Function	Cat No.
	Maintained	2AS2E-1
	Spring Return	2AS2E-2
	Maintained	2AS2E-3
	Spring Return	2AS2E-4
	Spring Return	2AS2E-5
	Spring Return	2AS2E-6

Legend Plates



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

22mm Push Button Accessories



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



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



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



Bulb Extractor
Cat. No. 2BA9SE



Padlock
For mushroom actuator: Cat. No. 2PAM
For projecting actuator: Cat. No. 2PAP



E-Stop Shroud

Plastic protector:Cat. No. 2ESS1
Plastic protector (UL):Cat. No. 2ESS1-UL
shown with pushbutton / not included



Blanking plug for 22.5 mm holes
Color: Black
Cat. No. 2BP2
Blanking plug for M20 (20mm) or NPT 1/2" holes
Color: Gray
Cat. No. M20
Cat. No. NPT1/2



Replacement Keys
For all 22mm operators with keysCat. No. 2KY455



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



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



Rubber Gasket
Cat. No. 2PRG1



Rubber Boot for Contact Elements
Cat. No. 2SEBT2



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



Plastic Cover
Cat. No. 2PAM7

22mm Push Button Switch Contacts
Panel Mount Types



S1	S2	S3	S4
Normally Open Silver	Normally Closed Silver	Normally Open Gold Plated	Normally Closed Gold Plated

Clear Filament Bulbs



Voltage XXX
Cat No. BA9SXXX

LED Bulbs



Add color number into part number ❑

☐ (white) 1 ■ 3 ■ 4 ■ 5 ■ 6 ☐ (clear) 7 ■

Voltage	Cat No.
12V AC/DC	MCB9❑XX
24V AC/DC	MCB9❑XXX
48V AC/DC	MCB9❑XXX
110V AC	MCB9❑XXX
110V DC	MCB9❑XXXD
230V AC	MCB9❑XXX
230V DC	MCB9❑XXXD

XXX = Voltage Codes

012	=	12V AC/DC
024	=	24V AC/DC
048	=	48V AC/DC
110	=	110V AC
230	=	230V AC

Pressure Die Cast Aluminum Enclosures for 22mm Operators

Black/Pebble Gray (RAL 7032) / 94 mm (3.70 in) Width / 4 x 6 mm mounting hole.
For base mount contact blocks and non-illuminated operators.

52mm - 2 contact blocks maximum per operator.



Cable Entry Thread Size - 2xM20

Cat. No.	Capacity	Dimensions LxWxH
2005A13	1	80x90x52 (3.15x3.54x2.05)
2006C13	2	80x135x52 (3.15x5.32x2.05)
2007E13	3	80x180x52 (3.15x7.09x2.05)
2010G13	4	80x225x52 (3.15x8.86x2.05)

Cable Entry Thread Size - 2x1/2"-14 NPT

2015A13	1	80 x 90x52 (3.15x3.54x2.05)
2014C13	2	80x135x52 (3.15x5.32x2.05)
2012E13	3	80x180x52 (3.15x7.09x2.05)
2008G13	4	80x225x52 (3.15x8.86x2.05)



72mm - 2 contact blocks can be used with an illuminated operator.
4 contact blocks can be used with any non-illuminated operator.



Cable Entry Thread Size - 2xM20

Cat. No.	Capacity	Dimensions LxWxH
7009A13	1	80x90x72 (3.15x3.54x2.83)
7006C13	2	80x135x72 (3.15x5.32x2.83)
7004E13	3	80x180x72 (3.15x7.09x2.83)
7004G13	4	80x225x72 (3.15x8.86x2.83)

Cable Entry Thread Size - 2x1/2"-14 NPT

7010A13	1	80x90x72 (3.15x3.54x2.83)
7007C13	2	80x135x72 (3.15x5.32x2.83)
7005E13	3	80x180x72 (3.15x7.09x2.83)
7005G13	4	80x225x72 (3.15x8.86x2.83)



22mm Thermoplastic Enclosures

2xM20 cable entry knockouts
(4) - 4.4x6.4 mounting hole size



❑ - 3 = White Top/Black Bottom
❑ - 4 = Yellow Top/Black Bottom

Cat. No.	Capacity	Dimensions LxWxH
400❑A11	1	73 X 73 X 52
400❑C11	2	113 X 73 X 52
400❑E11	3	153 X 73X 52
400❑G11	4	193 X 73 X 52
400❑S11	5	233 X 73 X 52
400❑I11	6	273 X 73 X 52

Control Boxes

2xM20 cable entry knockouts
4) - 4.4x6.4 mounting hole size



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