



22mm CONTROL & SIGNALING DEVICES

▶ QUICK REFERENCE GUIDE

NORTH AMERICAN EDITION

OUR COMMITMENT MAKES THE DIFFERENCE ▶ **BACO**[®]

GUARANTEE, CONFORMITY OF LONG-LASTING PRODUCTS

BACO facilitates the daily work offering ingenious and easy to implement solutions

► A KEY PLAYER IN THE MARKET

As a key player on the market for control and signaling devices, cam switches and disconnect switches, BACO is recognized for its professional expertise and compliance with safety standards. BACO is committed not only to provide technical solutions that offer a perfect match for customers' requirements, but also to offer dedicated sales support and assistance. Users of electrical switches and control devices have come to trust BACO for reliable and durable components.

► A 10-YEAR GUARANTEE

We are committed to a demanding quality charter so you know you're getting the very best deal. Our products have a 10-year guarantee and are exceptionally reliable, that is why they are ideal for integration into systems that do not tolerate any failure.



► WIDELY USED AROUND THE WORLD

Conform to the best international standards:

- UL 508-CSA 22.2
- IEC 60947-5-5
- IEC 60947-5-4
- ISO 13850
- IEC 60947-5-1
- CCC
- BV MARINE RULES

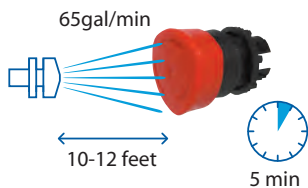


ISO 9001 & 14001 certified

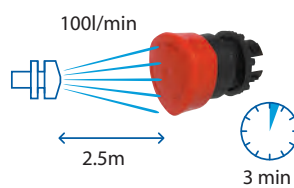


► HIGH DEGREES OF PROTECTION

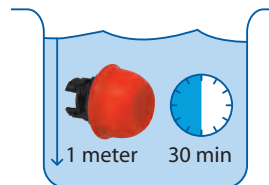
Waterproof according to NEMA and Ingress Protection (IP) Ratings:



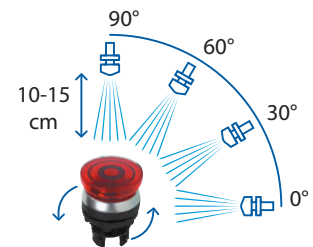
NEMA 4x: against strong water jets



IP 66: against strong water jets

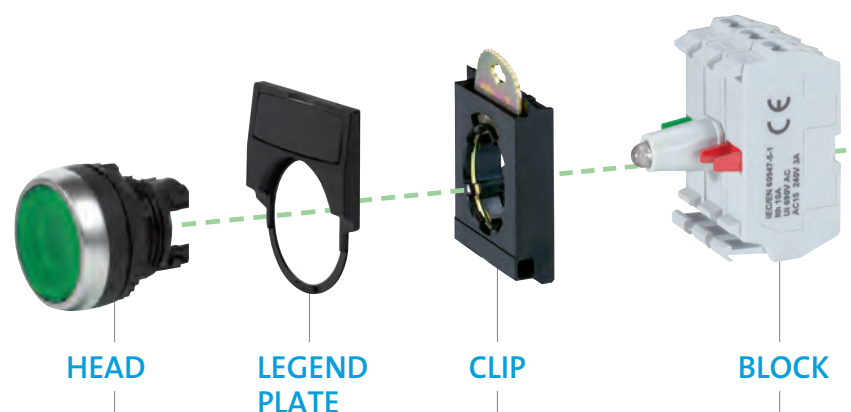


IP 67: against temporary water immersion



IP 69K: against water jets with high temperature and pressure

► **DESIGNED TO LAST**



"Cleverly designed to be both ergonomic and clearly visible"

- Insulating material ensures electrical safety
- Integrated anti-rotation tab
- Legend holder frame keeps NEMA 4x, IP 66 and IP 69K protection
- Auto-grip ring on all heads allows single hand mounting
- Choice of bezels: black or chrome plastic
- Innovative and varied functions
- Optimized dimensions

"Flexibility of configuration: 1, 3 or 5 position clips. Contact blocks can be assembled in any order..."

- Contact blocks are simply snapped onto the clip
- Four different types of terminal connections
- Metal latch on clip provides secure assembly to heads

"Imaginatively designed to be safe, robust and durable"

- Securely fixed by clipping into place
- Stackable
- Grade protection: IP 20 as "finger safe" on screw and plug-in terminals
- Electrical insulation
- LED blocks combining long life and economy (100,000 hours)
- Corrosion resistant to many chemicals



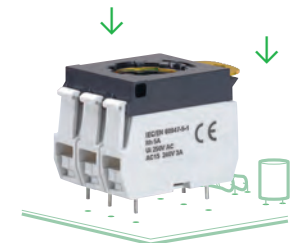
SCREW TERMINALS



PLUG-IN TERMINALS

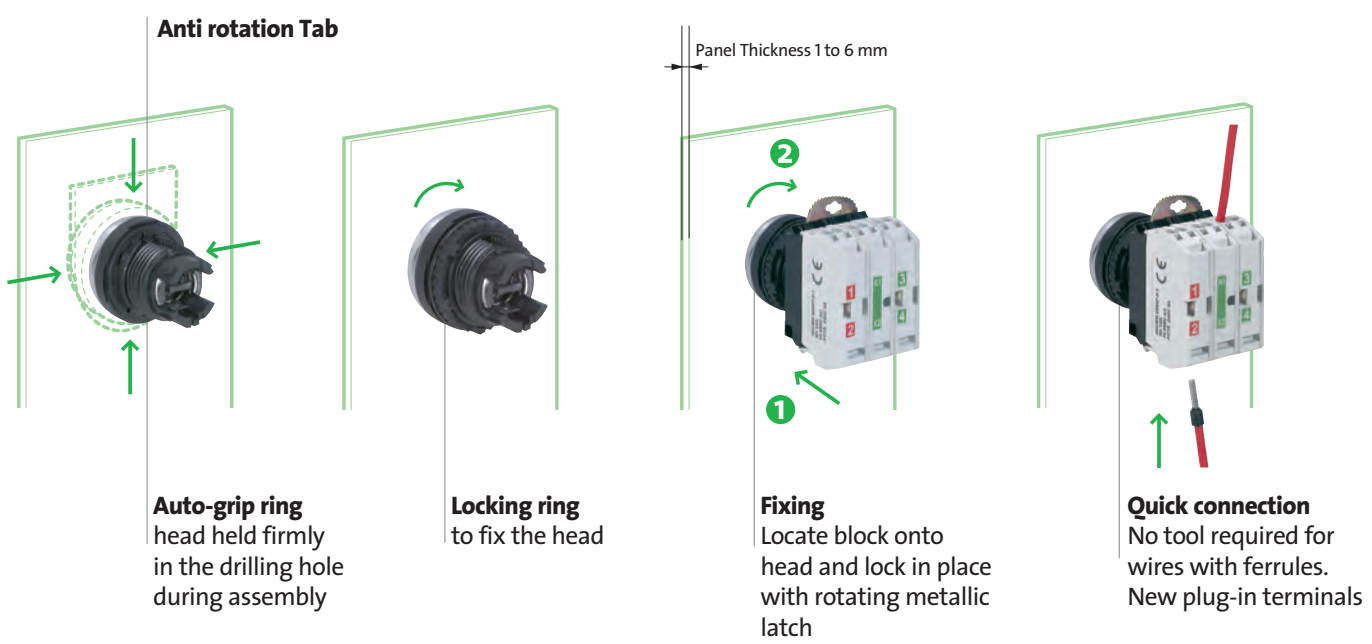


FASTON TERMINALS



PIN STYLE TERMINALS (FOR PCB)

► **QUICK AND EASY TO ASSEMBLE**



Anti rotation Tab

Auto-grip ring
head held firmly in the drilling hole during assembly

Locking ring
to fix the head

Fixing
Locate block onto head and lock in place with rotating metallic latch

Quick connection
No tool required for wires with ferrules. New plug-in terminals

Panel Thickness 1 to 6 mm



► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH



L21AA01/2/3/4/5/6/8

With engraving

- Red L21AA81
- Green L21AA82
- Black L21AA83

On demand engraving*
L21AA31/2/3/4/5/6 ___



Supplied with shroud
L22AF01/2/3
L22AG04/5/6

SPRING RETURN - SUPER FLUSH



L23AA01/2/3/4/5/6

On demand engraving*
L23AA31/2/3/4/5/6 ___

STAY-PUT - FLUSH



L21CA01/2/3/4/5/6

On demand engraving*
L21CA31/2/3/4/5/6 ___

SPRING RETURN - PROJECTING



L21AB01/2/3/4/5/6

On demand engraving
L21AB31/2/3/4/5/6 ___

STAY-PUT - PROJECTING



L21CB01/2/3/4/5/6

► PUSH-BUTTONS - ILLUMINATED

FLUSH



SPRING RETURN

L21AH10/20/40/50/60

On demand engraving*
L21AH31/2/4/5/6 ___

STAY PUT

L21CH10/20/40/50/60

On demand engraving*
L21CH31/2/4/5/6 ___

PROJECTING



SPRING RETURN

L21AK10/20/40/50/60

STAY PUT

L21CK10/20/40/50/60

SUPER FLUSH



SPRING RETURN

L23AH10/20/40/50/60

On demand engraving*
L23AH31/2/4/5/6 ___

STAY PUT

L23CH10/20/40/50/60

On demand engraving*
L23CH31/2/4/5/6 ___

► PUSH-BUTTONS WITHOUT BUTTON PLATE

SPRING RETURN - FLUSH



Non illuminated
L21AA00

Illuminated
L21AH00

BUTTON PLATES

FOR NON-ILLUMINATED PUSH-BUTTONS



Without engraving
LT01/2/3/4/5/6

On demand engraving*
LT21/2/3/4/5/6 ___

FOR ILLUMINATED PUSH-BUTTONS



Without engraving
LT10/20/40/50/60

On demand engraving*
LT31/2/4/5/6 ___

► ADJUSTABLE MECHANICAL PUSH-BUTTONS

FLUSH



L21HA01/2/3/4/5/6

On demand engraving*
L21HA31/2/3/4/5/6/ ___

PROJECTING



L21HB01/2/3/4/5/6

► PILOT LIGHTS

MODULAR, SEPARATE UNITS



Without engraving
L20SE10/20/40/50/60

On demand engraving*
L20SE31/2/4/5/6 ___



SUPER FLUSH

Without engraving
L23SE10/20/40/50/60

ONE PIECE, INTEGRATED LED



Replace "x" for voltage:
L: 24V AC/DC
M: 130V AC/DC
H: 230V AC/DC

Without engraving
L20SC10x/20x/40x/50x/60x



On demand engraving*
L20SC31x/2x/4x/5x/6x ___

► CLIPS



1 position
331E



3 positions
333E



5 positions
335E

* For "on demand engraving" products, please replace the ___ with the 3 digits code:

303 for ON, 304 for OFF, 301 for START, 302 for STOP, for more digit codes, please see our full line catalog at www.bacocontrols.com



► MUSHROOM HEAD BUTTONS, ISO 13850 COMPLIANT

STAY PUT, PULL TO RELEASE



NON ILLUMINATED
 Ø 32mm
L22DQ01
 Ø 40mm
L22DR01



ILLUMINATED
 Ø 40mm
L22DN10



Ø 54mm
 with flag indicator
L22DU01A 0 - I
L22DU01 STOP - I

STAY PUT, TURN TO RELEASE



Ø 40mm
L22ER01
 Ø 40mm
 with ISO 13850 symbol

STAY PUT, TURN KEY TO RELEASE



Ø 32mm
L22GQ01
 Ø 40mm
L22GR01

► MUSHROOM HEAD BUTTONS

STAY PUT, NON ILLUMINATED



TURN TO RELEASE
 Ø 32mm
L22EC01/2/3/4
 Ø 40mm
L22ED01/2/3/4



PULL TO RELEASE
 Ø 32mm
L22DC01
 Ø 40mm
L22DD01/2/3/4



TURN KEY TO RELEASE
 Ø 40mm
L22GM01/2/3/4

STAY PUT, ILLUMINATED



TURN TO RELEASE
 Ø 32mm
L22EL10/20/40
 Ø 40mm
L22EM10/20/40



PULL TO RELEASE
 Ø 32mm
L22DL10
 Ø 40mm
L22DM10/20/40/50

SPRING RETURN



NON ILLUMINATED
 Ø 32mm
L21AC01/2/3/4
 Ø 40mm
L21AD01/2/3/4/6
 Ø 70mm
L21AE01/3/6



ILLUMINATED
 Ø 32mm
L21AL10/20/40/50

► CONTACT BLOCKS

SCREW TERMINALS



NO 3 4 **33E10**
 NC 1 2 **33E01**
 NO/NC 2 1 4 3 **33E11**

PLUG-IN TERMINALS



NO 3 4 **33R10**
 NC 1 2 **33R01**



FASTON TERMINALS

NO 3 4 **33D10**
 NC 1 2 **33D01**

PIN-STYLE TERMINALS



NO 3 4 **33P10**
 NC 1 2 **33P01**

► LED BLOCKS

Replace _ by the corresponding letter: L, L4, M or H

SCREW TERMINALS



Voltage:
 L = 24 V AC/DC
 L4 = 48 V AC/DC
 M = 130 V AC
 H = 230 V AC
33EAW/R/G/B/Y_
33EAWDM = 110 V DC

PLUG-IN TERMINALS



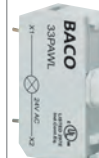
Voltage:
 L = 24 V AC/DC
 M = 130 V AC
 H = 230 V AC
33RAW/R/G/B/Y_



FASTON TERMINALS

Voltage:
 L = 24 V AC/DC
 M = 130 V AC
 H = 230 V AC
33DAW/R/G/B/Y_

PIN STYLE TERMINALS



(low voltage
 24V AC/DC max)
33PAWL
33PARL
33PAGL
33PABL
33PAVL



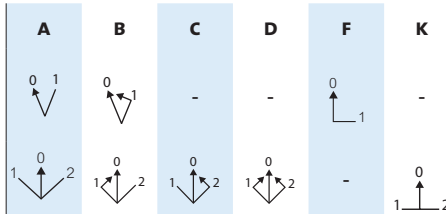
▶ SELECTOR SWITCHES Replace _ by the corresponding letter: A, B, C...Y

NON ILLUMINATED



2 positions
L21T_03
3 positions
L21U_03

WITH KNOB

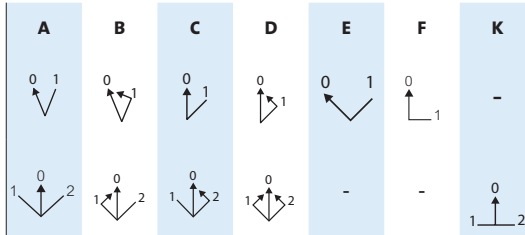


NON ILLUMINATED

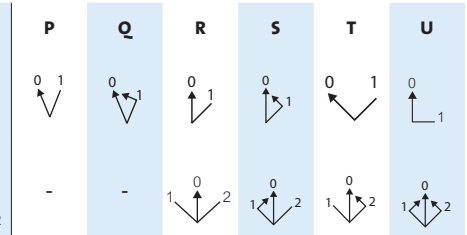


2 positions
L21K_01/2/3/8
3 positions
L21M_01/2/3/8

WITH HANDLE



WITH LONG HANDLE

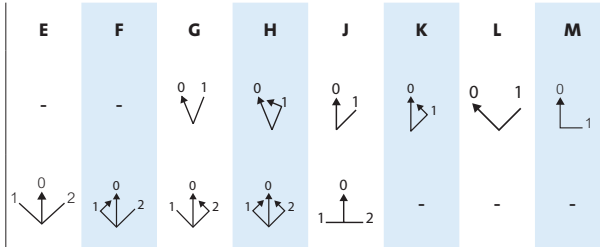


ILLUMINATED

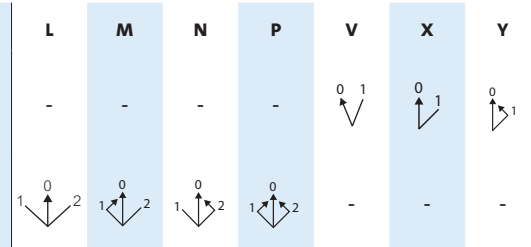


2 positions
L21K_10/20/30
3 positions
L21M_10/20/30

WITH HANDLE



WITH LONG HANDLE

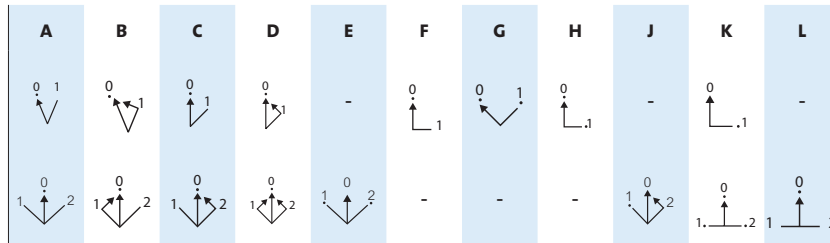


NON ILLUMINATED



2 positions
L21L_00
3 positions
L21N_00

WITH KEY



• Position key removeable

▶ DOUBLE TOUCH AND TRIPLE TOUCH SPRING RETURN BUTTONS

TWIN TOUCH

FLUSH-FLUSH



	Non-illuminated	
	L61QA21	L61QH21
	L61QA21B	L61QH21A
	L61QA53	L61QH53B
	L61QA22	L61QH22V
	L61QA22K	L61QH22A
	L61QA33C	L61QH33C

FLUSH-PROJECTING



	Non-illuminated
	L61QB21
	L61QB21B
	L61QB53

TRIPLE TOUCH

FLUSH-PROJECTING-FLUSH



	STOP	L61BA22
	STOP	L61BA22B
	UP	
	STOP	L61BA22G
	DOWN	
	OPEN	
	STOP	L61BA22F
	CLOSE	

▶ AUDIBLE WARNING BUZZERS



80 dB sound intensity at 10 cm
 Supply voltage:
 18 to 30V AC/DC
L22VA03L
 85 to 140V AC/DC
L22VA03M
 185 to 265V AC/DC
L22VA03H

▶ USB COMMUNICATION INTERFACE



USB interface 3.0 type A/A

L21VB03

▶ JOYSTICKS



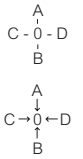
LM2F A - 0 - B

LM2A A → 0 ← B

LM4F C - 0 - D

LMA4 C → 0 ← D

Contact block for Joystick **LM11**




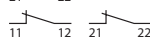
▶ CONTROL STATIONS



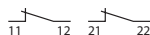
Ø 40mm
 Engraved: Emergency Stop
 Stay put, push-turn to reset
LBX10510



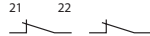
Ø 40mm ISO 13850
 Engraved: Emergency Stop + 
 Stay put, push-turn to reset
LBX17301
LBX17302



Stay put, push-pull to reset
LBX15301
LBX15302



Stay put, key to reset
LBX11301
LBX11302



▶ EMPTY CONTROL STATIONS



1 HOLE, BLACK BASE
 Grey cover **LBX0100**
 Yellow cover **LBX0100J**
 Black cover **LBX0100NR**
 Red cover **LBX0100RN**



1 HOLE, RED BASE
 Red cover **LBX0100RG**





2 HOLES, BLACK BASE
 Grey cover **LBX0200**
 Yellow cover **LBX0200J**

3 HOLES, BLACK BASE
 Grey cover **LBX0300**

4 HOLES, BLACK BASE
 Grey cover **LBX0400**

5 HOLES, BLACK BASE
 Grey cover **LBX0500**



CONTACT BLOCKS FOR CONTROL STATIONS
 Screw terminals
 NO  **33510**
 NC  **33501**



LED BLOCKS FOR CONTROL STATIONS
 Screw terminals
33SAW/R/G/B/Y/_
 Replace _ by the corresponding letter:
 L = 24V AC/DC
 M = 130V AC
 H = 230V AC

▶ ACCESSORIES

ACCESSORIES Ø22mm



LWA0219 Reduction ring Ø 30/22



LWA0225 Grey guard
LWA0226 Padlockable shroud
LWA0229 Blanking plug
LWA0230 Square Frame
LWA0234 Fixing tool
LWA0238 DIN rail adaptor
LWA0240 Yellow padlockable guard
LWA0242 Yellow guard ring
L21RP03 Button for potentiometer



SHROUDS

LWA0203/4/5 For non illuminated projecting buttons
LWA0228 For illuminated projecting buttons
LWA0251/2/3 For non illuminated flush buttons
LWA0255 For illuminated flush buttons
LWA0223 For double and triple touch buttons



FRAMES

LWP3 Standard black frame for LIA plates
LWG3 Large black frame for LIB plates
LWP4 Square black frame for LIA plates
LWP2 Black frame for twin and triple touch for LIA plates





LEGEND PLATES

LIA1/3/5/9 Standard plates
LIB1/3/5/9 Large plates

Standard and custom texts available.
 Please contact us for details.



METAL ROUND LEGEND PLATES

According to ISO 13850
LWE16300 Ø60: Emergency stop + 
LWE00300 Ø80: Emergency stop + 
LWE16352 Ø60: Emergency stop
LWE00352 Ø80: Emergency stop

PLASTIC ROUND LEGEND PLATES

LWE60300 Ø60: Emergency stop
LWE80300 Ø80: Emergency stop



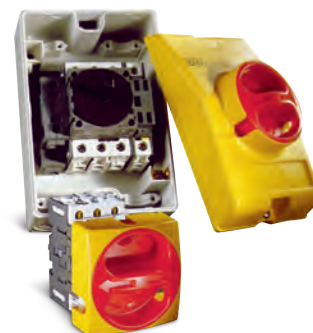
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www.bacocontrols.com
8431 Loop Road
Baldwinsville, NY 13027
Phone: 315.635.2500
Fax: 315.635.2600