



CONTROL & SIGNALLING UNITS Ø 22

▶ QUICK REFERENCE GUIDE

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 signalling devices, cam switches and switch disconnectors, 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:

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

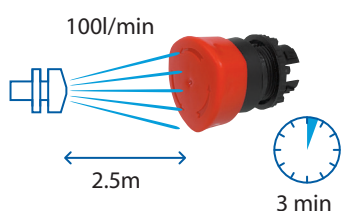


ISO 9001 & 14001 certified

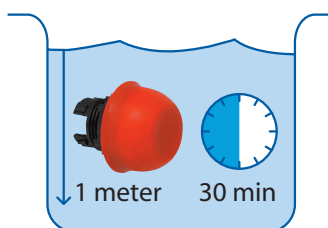


► HIGH DEGREE OF PROTECTION

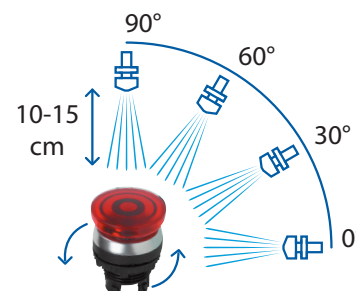
Waterproof according to Ingress Protection (IP) Ratings:



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**

HEAD **LOCKING RING** **CLIP** **BLOCK**

SCREW TERMINALS

PLUG-IN TERMINALS

FASTON TERMINALS

PIN STYLE TERMINALS (FOR PCB)

"Cleverly designed to be both ergonomic and clearly visible"

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

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

- Secured assembly
- Metal latch on clip secures every assembly*
- Contact blocks are simply snapped onto the clip
- Four different types of terminal connections

"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 some

► **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

E=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 ___

► 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

► 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 ___

► 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 BACO general catalogue: www.baco-international.com



► MUSHROOM HEAD BUTTONS, ISO 13850 COMPLIANT

STAY PUT, PULL TO RELEASE



NON ILLUMINATED
Ø 32mm
L22DQ01

Ø 40mm
L22DR01



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



ILLUMINATED
Ø 40mm
L22DN10

STAY PUT, TURN TO RELEASE



Ø 40mm
L22ER01

Ø 40mm
with ISO 13850 symbol
L22ER01K

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 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
33PAYL



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

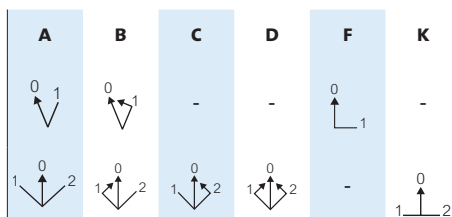
NON ILLUMINATED



2 positions
L21T_03

3 positions
L21U_03

WITH KNOB



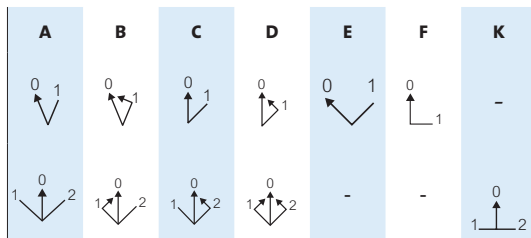
NON ILLUMINATED



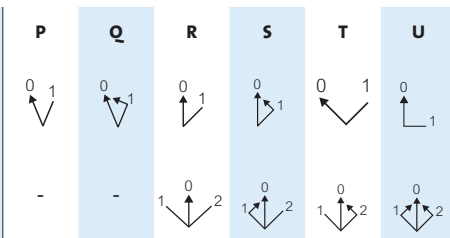
2 positions
L21K_01/2/3/8

3 positions
L21M_01/2/3/8

WITH HANDLE



WITH LONG HANDLE



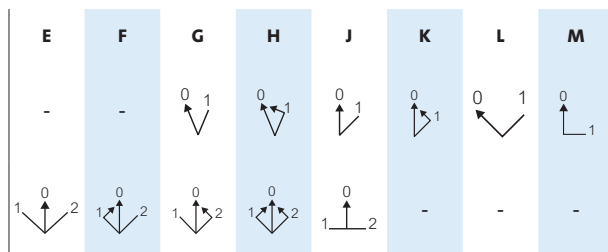
ILLUMINATED



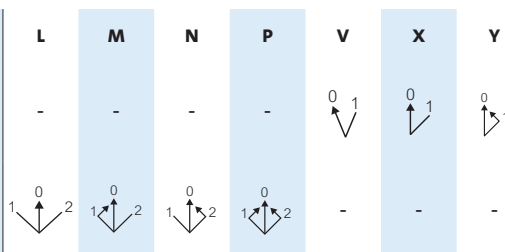
2 positions
L21K_10/20/30

3 positions
L21M_10/20/30

WITH HANDLE



WITH LONG HANDLE



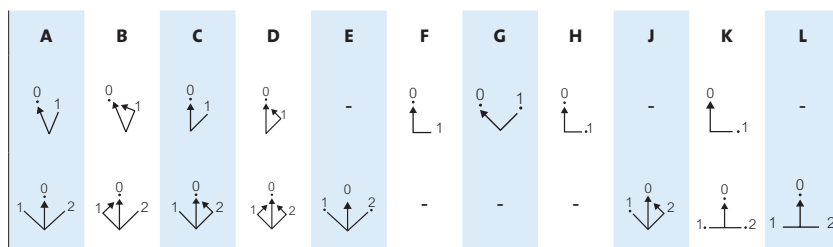
NON ILLUMINATED



2 positions
L21L_00

3 positions
L21N_00

WITH KEY

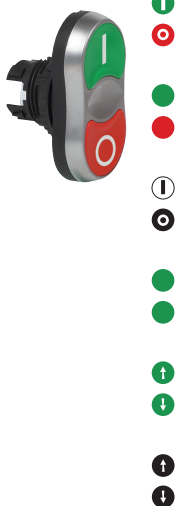


. Key extraction position

▶ DOUBLE TOUCH AND TRIPLE TOUCH SPRING RETURN BUTTONS

DOUBLE TOUCH

FLUSH-FLUSH



Non-illuminated

L61QA21



L61QA21B



L61QA53



L61QA22



L61QA22K



L61QA33C



illuminated

L61QH21

L61QH21A

L61QH53B

L61QH22V

L61QH22A

L61QH33C

FLUSH-PROJECTING



Non-illuminated

L61QB21



L61QB21B



L61QB53



illuminated

L61QK21

L61QK21A

L61QK53

TRIPLE TOUCH

FLUSH-PROJECTING-FLUSH



L61BA22



L61BA22B



L61BA22G



L61BA22F



▶ 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 A
C - 0 - D
B

LM4A A
C - 0 - D
B

Contact block for Joystick **LM11**

▶ CONTROL STATIONS



Ø 40mm

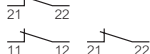
Engraved: Emergency Stop
Stay put, push-turn to reset
LBX10510



Ø 40mm ISO 13850

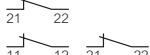
Engraved: Emergency Stop +

Stay put, push-turn to reset
LBX17301
LBX17302



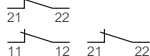
Stay put, push-pull to reset

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 3 4 **33510**
NC 1 2 **33501**



LED BLOCKS FOR CONTROL STATIONS

Screw terminals
33SAW/R/G/B/Y_
Replace _ by the corresponding letter:
L, M or H
L = 24V AC/DC
M = 130V AC
H = 230V AC

▶ ACCESSORIES



ACCESSORIES Ø22

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



FRAMES

LWP3

LWG3

LWP4

LWP2

Standard black frame for LIA plates
Large black frame for LIB plates
Square black frame for LIA plates
Black frame for twin and triple touch for LIA plates



LEGEND PLATES

LIA1/3/5/9

LIB1/3/5/9

Standard plates
Large plates



ENGRAVED LEGEND PLATES

LIA9081

LIA9082

LIA9091

LIA9191

LIA9291

LIA9301

LIA9303

LIA9304

LIA9315

LIA9327

LIA9383

O-I
I-II
I-O-II
Manu-O-Auto
Hand-O-Auto
Start
On
Off
Reset
Run
Hand-Auto



SHROUDS

LWA0203/4/5

LWA0228

LWA0251/2/3

LWA0255

LWA0223

For non illuminated projecting buttons
For illuminated projecting buttons

For non illuminated flush buttons

For illuminated flush buttons

For double and triple touch buttons



METAL ROUND LEGEND PLATES

According to ISO 13850

LWE16232

LWE16300

LWE00232

LWE00300

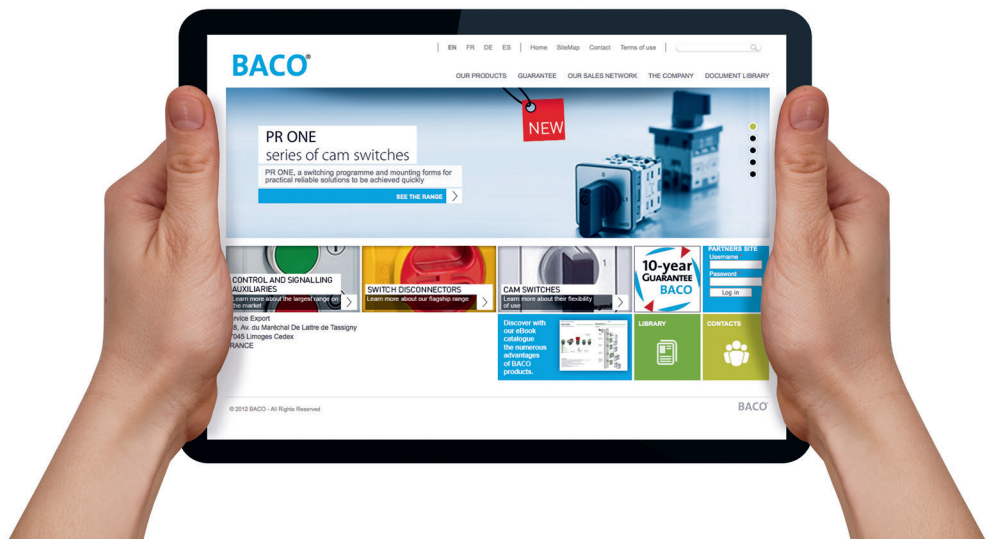
LWE16200

LWE16352

LWE00200

LWE00352

Ø60: Not-Halt +
Ø60: Emergency stop +
Ø80: Not-Halt +
Ø80: Emergency stop +
Ø60: Not aus
Ø60: Emergency stop
Ø80: Not aus
Ø80: Emergency stop



Please refer to
www.baco-international.com
to find your local distributor



BA218001