

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



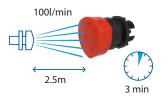


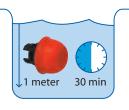


► HIGH DEGREES OF PROTECTION

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









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

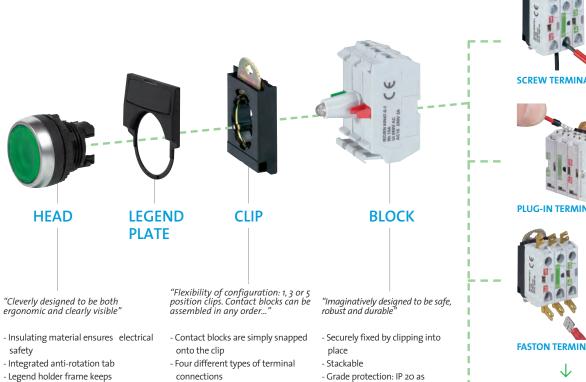
NEMA 4x: against strong water jets

IP 66: *against strong water jets*

IP 67: against temporary water immersion

BACO[®]

DESIGNED TO LAST



- 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
- Metal latch on clip provides secure assembly to heads
- in terminals - Electrical insulation
- LED blocks combining long life and economy (100,000 hours) - Corrosion resistant to many chemicals

"finger safe" on screw and plug-



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

SPRING RETURN - SUPER FLUSH



PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Black



With engraving L21AA81 Red L21AA82 Green

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



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

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

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

L23AA01/2/3/4/5/6

STAY-PUT - FLUSH

BUTTON PLATES



L21CA01/2/3/4/5/6

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

SPRING RETURN

STAY PUT

FOR NON-ILLUMINATED PUSH-BUTTONS

Without engraving

On demand engraving*

LT21/2/3/4/5/6___

LT01/2/3/4/5/6

L21AK10/20/40/50/60

L21CK10/20/40/50/60

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** PROJECTING

L21AA83



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

PUSH-BUTTONS WITHOUT BUTTON PLATE

SPRING RETURN - FLUSH



Non illuminated L21AA00

Illuminated L21AH00



ADJUSTABLE MECHANICAL PUSH-BUTTONS FLUSH



L21HA01/2/3/4/5/6

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

PILOT LIGHTS

MODULAR, SEPARATE UNITS



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

Without engraving

L20SE10/20/40/50/60



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___

* 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.bacccontrols.com



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___

FOR ILLUMINATED PUSH-BUTTONS



PROJECTING

Without engraving LT10/20/40/50/60

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

L21HB01/2/3/4/5/6











5 positions



MUSHROOM HEAD BUTTONS, ISO 13850 COMPLIANT

STAY PUT, PULL TO RELEASE



NON ILLUMINATED Ø 32mm L22DO01 Ø 40mm L22DR01

with flag indicator

0 - I STOP - I

Ø 54mm

L22DU01A L22DU01



ILLUMINATED Ø 40mm L22DN10

STAY PUT, TURN TO RELEASE



L22ER01 Ø 40mm with ISO 13850 symbol 👽 L22ER01K

STAY PUT, TURN KEY TO RELEASE



Ø 32mm L22GQ01

Ø 40mm

Ø 40mm L22GR01

MUSHROOM HEAD BUTTONS

STAY PUT, NON ILLUMINATED



TURN TO RELEASE Ø 32mm L22EC01/2/3/4 Ø40mm 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

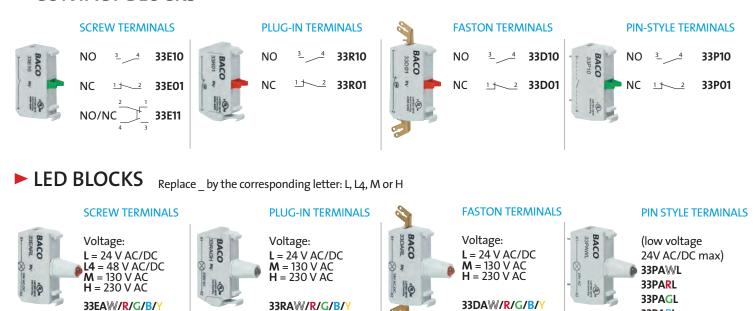
33PABL

33PAYL



CONTACT BLOCKS

33EAWDM = 110 V DC



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

NON ILLUMINATED		WITH KNOB														
			A	В	с	D	F	к								
100	2 positions L21T _ 03		0 1 V		-	-	0 ▲1	-								
3 positions L21U_03		1 <u>2</u>	⁰ 1↓ ²	1 1 2	1 1 2	-	0 12									
NON ILLUMINATED		WITH HANDLE							WITH LONG HANDLE							
			A	В	с	D	E	F	к	Р	Q	R	s	т	U	
	2 positions L21K_01/2/3/8		0 1 V				0 1	0 1	-	0 1 V				0 1	0 1	
	3 positions L21M_01/2/3/8				1 1 2		-	-	0 12	-	-	$1 \frac{1}{\sqrt{2}}^2$	⁰ 1↓↓2			
ILLUMINATED WITH		H HANDLE WITH LONG HANDLE														
		E	F	G	н	J.	к	L	м	L	м	N	Р	v	х	Y
	2 positions L21K _ 10/20/30	-	-	0 1 V				0 1	0 1	-	-	-	-	0 1		
	3 positions L21M _10/20/30					0 12	-	-	-		1 1 2		1 1 2	-	-	-
NON ILLUMINATED			WITH	KEY												
			Α	в	с	D	E	F	G	н	J	к	L			
	2 positic L21L_00	ons D	0 1 ▼	°.	• •		-	0 1	• • •	0 1.1	-	0 ♠1	-			
	3 positic L21N_0	ons O		0 1 1 2		⁰ 1 ↓ 2	1, ⁰ , ²	-	-	-		0 12	0 1 2	• Posi rem	tion key oveable	

DOUBLE TOUCH AND TRIPLE TOUCH SPRING RETURN BUTTONS

TWIN TOU	CH						TRIPLE TOU	ICH	
FLUSH-FLUSH				FLUSH-PROJECTING-FLUSH					
		Non- illuminated	Illuminated		Non- illuminated	Illuminated		0	
	0	L61QA21	L61QH21	0	L61QB21	L61QK21		STOP	L61BA22
	STARTSTOP	L61QA21B	L61QH21A	STARTSTOP	L61QB21B	L61QK21A		STOP	L61BA22B
	() ©	L61QA53	L61QH53B	() O	L61QB53	L61QK53		UP	1 (10.4.2.2.5
		L61QA22	L61QH22V					STOPDOWN	L61BA22G
	() ()	L61QA22K	L61QH22A					OPENSTOPCLOSE	L61BA22F
	0	L61QA33C	L61QH33C						

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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

CONTROL STATIONS



Ø 40mm

Engraved: Emergency Stop Stay put, push-turn to reset LBX10510 _1 _22

Ø 40mm ISO 13850 Engraved: Emergency Stop + 🖤 Stay put, push-turn to reset LBX17301 21 22



Stay put, push-pull to reset LBX15301 1 22 LBX15302 12 21 22

Stay put, key to reset LBX11301 _1 22 LBX11302 ____ 12 21 22

ACCESSORIES



ACCESSORIES Ø22mm

LWA0219

LWA0225

LWA0226

LWA0229

LWA0230

LWA0234

LWA0238

LWA0240

LWA0242

L21RP03

Reduction ring Ø 30/22 Grey guard Padlockable shroud **Blanking plug** Square Frame Fixing tool DIN rail adaptor Yellow padlockable guard Yellow guard ring Button for potentiometer





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



► USB COMMUNICATION

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

1 HOLE, RED BASE 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



LM2F

LM2A

JOYSTICKS

A - 0 - B

 $A \rightarrow 0 \leftarrow B$

Contact block for Joystick LM11

	TACT BLOC	
Screv	<i>w</i> terminals	
NO	34	33510
NC	1 2	33501

IM4F

LMA4

C - 0 - D

Ŕ



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

Standard black frame for LIA plates

Large black frame for LIB plates

Black frame for twin and triple

Square black frame for LIA plates

FRAMES LWP3 LWG3 LWP4 LWP2



LEGEND PLATES

LIA1/3/5/9 LIB1/3/5/9

Standard plates Large plates

touch for LIA plates

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



METAL ROUND LEGEND PLATES According to ISO 13850

Ø60: Emergency stop + 🕥 Ø80: Emergency stop + 🕥

LWE16352 LWE00352

LWE16300

LWE00300

Ø60: Emergency stop Ø80: Emergency stop

PLASTIC ROUND LEGEND PLATES

LWE60300 LWE80300 Ø60: Emergency stop Ø80: Emergency stop







EMPTY CONTROL STATIONS



Please visit **www.bacocontrols.com** for more information on all of the BACO product lines







CAM SWITCHES



DISCONNECT SWITCHES

BACO[®] CONTROLS

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