

# BACO®



- Complete range of pushbuttons, selector/key switches, pilot lights & control stations
- Wide range of mushroom heads
- Ø22mm hole fixing
- Easy to install & quick to connect
- Screw terminal, push fit, faston & PCB connection possibilities
- IP66 / IK05 highly resilient heads
- Modern ergonomic design

## BACO

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## A WHOLE NEW RANGE

Baco was founded in 1919 in Strasbourg (France) and have since established themselves as a leading manufacturer in the world wide market of control & signalling devices. This brand new offer has a modern ergonomic design that builds on the success of their previous range. Baco have implemented many innovative improvements that include optimised dimensions, LED technology and a wider choice of connection possibilities. All of this results in a product that is reliable, looks great and is easier than ever to install and connect.

### A Simple Concept



**Head**  
 Insulating material ensures electrical safety  
 Integrated anti rotation pins  
 IP66 standard  
 (IP67 with shroud)  
 Modern ergonomic design  
 Choice of bezels in chrome or black  
 Wide range of functions



Locking Ring

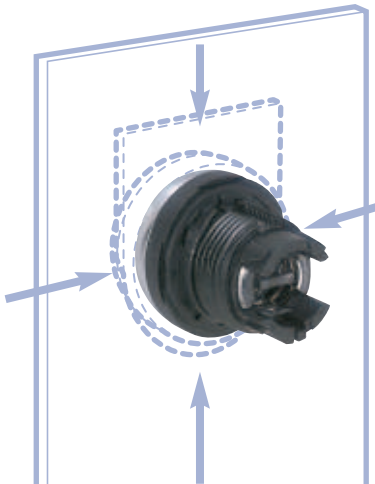


**Clip**  
 Enhanced rigidity  
 Metal locking lever  
 For 1, 3 & 5 blocks  
 Contacts simply click in place



**Contact / LED Block**  
 Simply snap in to place  
 Cannot be pulled out  
 Stackable  
 LED blocks offer long life and economy (100,000 hours)  
 Corrosion resistant  
 Conforms to EN IEC 60947-5-1  
 RoHS compliant

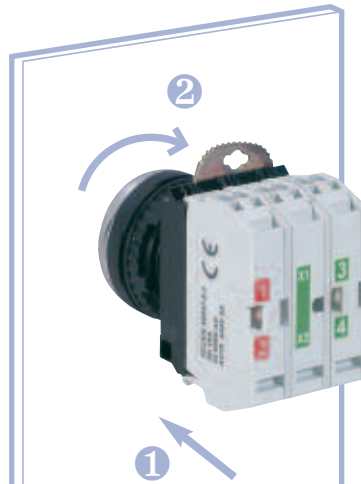
### Easy Installation & Fast Connection



Head held firmly in the 22mm fixing hole by 4 integral anti rotation pins allowing easy positioning



Head tightened securely with the M22 locking ring that can be fitted with one hand



Fast fixing of the contact assembly, simply push on and then lock in place with the metal lever



Quick connection using spring terminal contact blocks, cables are simply pushed in

## A COMMITMENT TO QUALITY

Standard features such as IP66 ingress protection and IK05 impact rating mean that this range offers exceptional reliability and can be used with confidence in critical applications. To reinforce this commitment to quality Baco are able to offer a 10 year guarantee on all new purchased products!



### Resilient & Robust



- IK 05
- IP 66

- Ø 22mm fixing hole
- Special hole cut out for anti rotation

All heads mount in a Ø22mm hole and are IP66/IK05 rated as standard.



Twin touch and triple touch heads feature an ergonomic design and are available in both illuminated and non illuminated options.



Mushroom heads are available in a wide range of sizes and turn to reset versions have a patented, ergonomic triangular design. EN418 snap action types have a visible yellow indicator ring and there is also a flag indicator option.

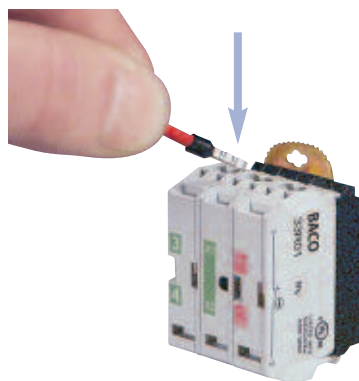


Control stations can be supplied equipped in many standard versions or empty for custom assembly. Special versions can be configured exactly to your requirements.

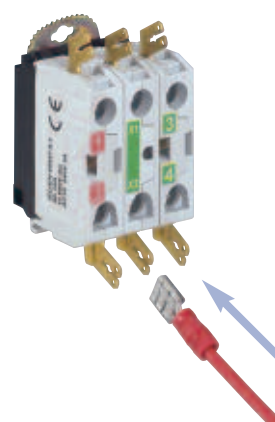
### Every Connection Possibility



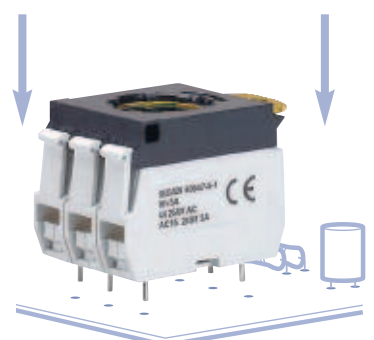
Screw terminals for a traditional connection method



Push in connection using spring clamp terminals for a completely safe & time saving solution



Faston connection quickly & easily made using 6.35mm or 2 x 2.8mm faston terminals



Pin terminals intended for direct soldered connection to PCB's

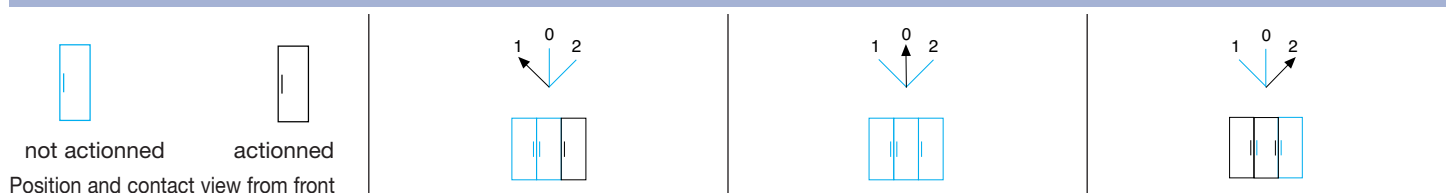
## TECHNICAL SPECIFICATION

General Characteristics	Data	Normes
Storage temperature	- 40°C to + 70°C	
Operating temperature	- 25°C to + 70°C	
Climatic resistance	Constant humid heat Cyclical damp heat Resistance to saline mist	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
Degree of protection	IP66 for standard heads & equipped control stations IP67 for shrouded heads IP20 rear of panel on contact blocks & pilot lights	IEC 60529
Protection against mechanical shocks	IK05 non illuminated & illuminated heads IK07 empty control station	IEC 50102
Protection against electrical shocks	Class II	IEC 60947-5-1
Terminal marking		IEC 60947-1
Maximum tightening torque	M22 head locking ring 3N.m Screw terminals 1.2Nm	
Vibration	Resistant to vibration on 3 axis	IEC 60068-2-6
Approvals	UL United States & Canada BV Bureau Veritas Certification OC/CB	UL 508 Settlement Marine IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4

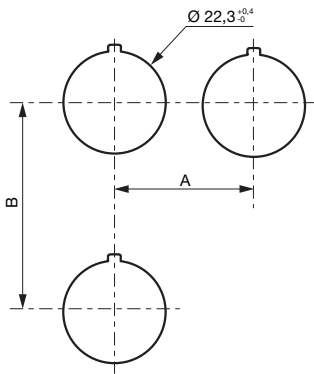
Contact Block Characteristics	Screw Terminal Push In Terminal	Faston Connection	Pin Terminals	Normes
Rated insulation voltage	690V AC	320V AC	250V AC	IEC/EN 60947-1
Degrees of pollution 3	600V AC	300V AC	250V AC	UL 508
NC contacts	Positive opening	Positive opening	Positive opening	IEC/EN 60947-5-1
Rated impulse withstand voltage	6kV	6kV	4kV	
Thermal current	10A / AC15 2.5A / DC13	10A / AC15 2.5A / DC13	5A / AC15 1A / DC13	IEC 60947-5-1
Electrical performance AC15	120V / 6A 240V / 3A 380V / 1.9A 480V / 1.5A 500V / 1.4A 600V / 1.2A	120V / 6A 240V / 3A	120V / 3A 240V / 1.5A	IEC 60947-5-1
Electrical performance DC13	125V / 0.55A 250V / 0.27A 400V / 0.15A 500V / 0.13A 600V / 0.1A	125V / 0.55A 250V / 0.27A	125V / 0.22A 250V / 0.1A	IEC 60947-5-1
Minimum current	Standard contacts Gold contacts	24V DC / 5mA 5V DC / 1mA	24V DC / 5mA 5V DC / 1mA	
Electrical durability	1 million operations (AC15 240V / 1.5A) (DC13 250V / 0.1A)			
Connection capacity	Without ferrule With ferrule Faston size Pin diameter	0.5mm <sup>2</sup> - 2 x 2.5mm <sup>2</sup> 0.5mm <sup>2</sup> - 2 x 1.5mm <sup>2</sup>	6.35mm / 2 x 2.8mm 1mm	

LED Block Characteristics	Data	Normes
Rated insulation voltage	300V	IEC/EN 60947-5-1
Rated impulse withstand voltage	4kV (with filter block)	IEC/EN 60947-1
Operating voltage & current consumption	24V AC/DC 25mA ± 20% 48V AC/DC 15mA ± 5% 130V AC 50 or 60Hz 20mA ± 10% 230V AC 50 or 60Hz 16mA ± 30%	
Lifetime at rated supply voltage	Red & Yellow 100,000 hours at 25°C Other colours 50,000 hours at 25°C	

## SELECTOR / KEY SWITCH WORKING DIAGRAM OF CONTACTS

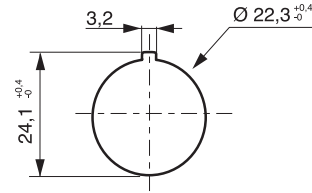


## DRILL PLANS

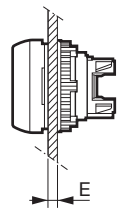


Dimension (mm)	Description
A = 30	With or without legend (standard)
= 33	For IP67 silicon shroud
= 40	With large legend plate
> 40	For mushroom head Ø40
> 45	For selector switch with long handle
= 38	For super flush button (Ø30 hole)
= 50	If with 5 position clip
B = 45	With or without legend (standard)
= 54	With twin touch
= 77	With twin touch & legend plate
= 50	Joystick

Hole for Anti Rotation



Max Panel Thickness  
E = 1 to 6mm

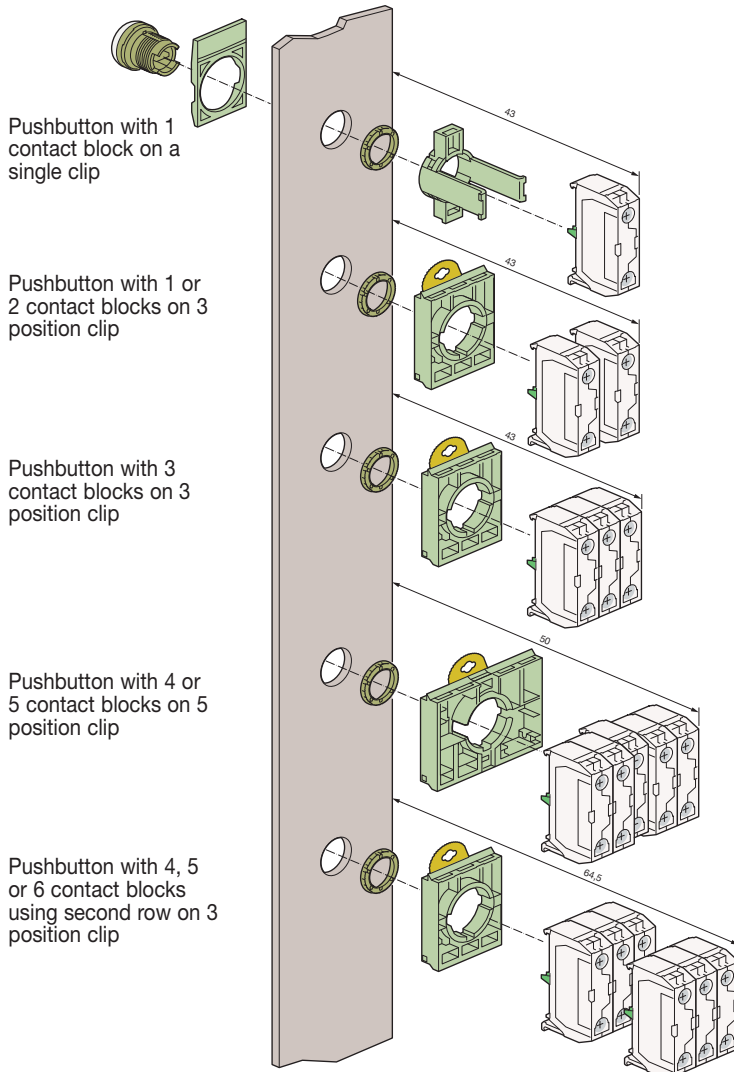


## COLOUR GUIDELINES EN60204-1

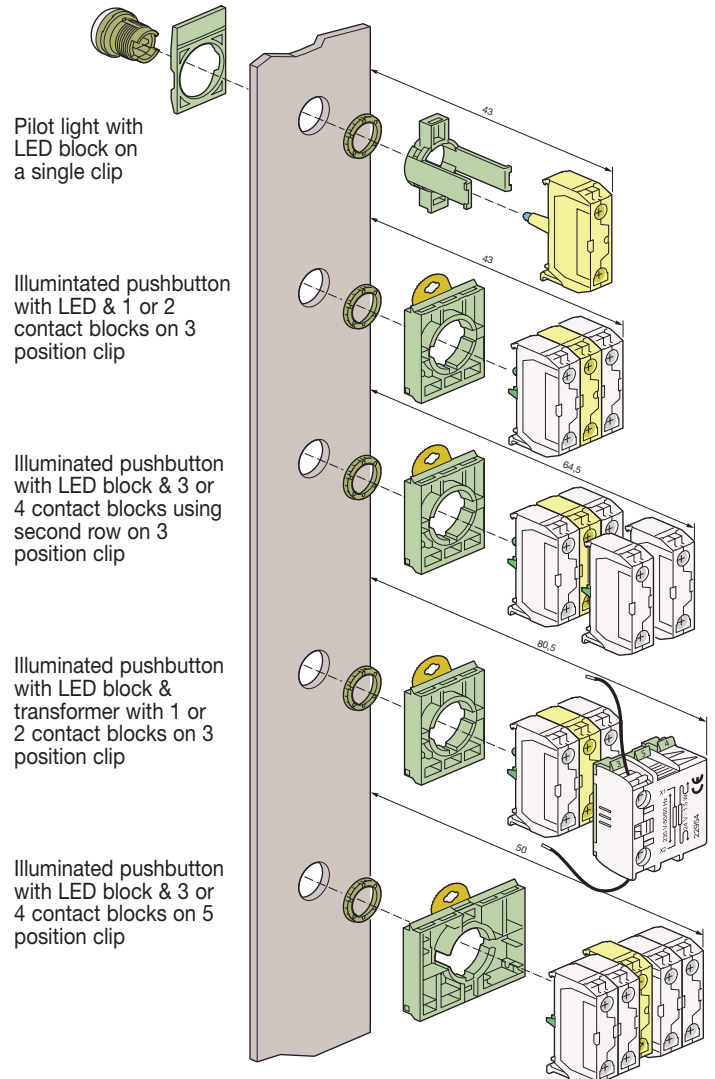
Colour	Signalling	Control
Red	Indicates dangerous situation	Emergency stop
Green	Indicates normal situation	
Black		Stop / Off
Yellow	Indicates abnormal situation	
Blue	Indicates situation requiring defined action	Reset
White	No specific meaning	Start / On

## ASSEMBLY EXAMPLES


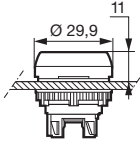

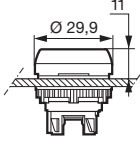




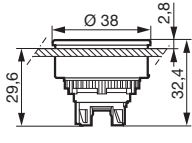

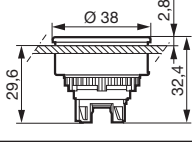




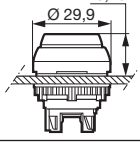

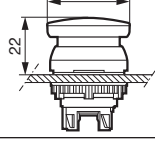

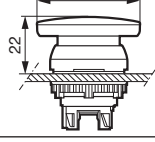

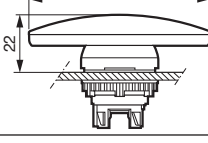

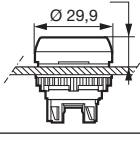

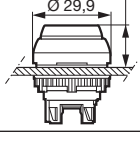

### Non Illuminated Pushbuttons



### Illuminated Pushbuttons & Pilot Lights


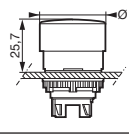

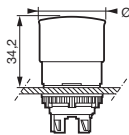

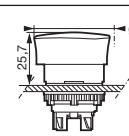

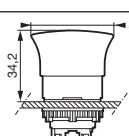

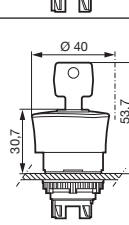


## NON ILLUMINATED PUSHBUTTON HEADS IP66


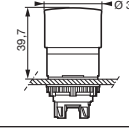

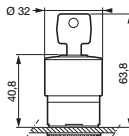

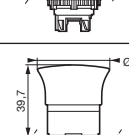

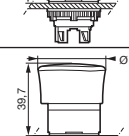

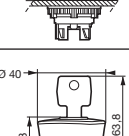

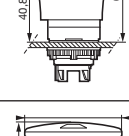
Type	Dimensions	Description	Red	Green	Black	Yellow	White	Blue
		Spring Return Flush	L21AA01	L21AA02	L21AA03	L21AA04	L21AA05	L21AA06
		Spring Return Flush With text or symbol  *** = 3 digit code	L21AA31 *** L21AA81 	L21AA32 *** L21AA82 	L21AA33 *** L21AA83 	L21AA34 ***	L21AA35 ***	L21AA36 ***
		Spring Return Super Flush	L23AA01	L23AA02	L23AA03	L23AA04	L23AA05	L23AA06
		Spring Return Super Flush With text or symbol  *** = 3 digit code	L23AA31 *** L23AA81 	L23AA32 *** L23AA82 	L23AA33 *** L23AA83 	L23AA34 ***	L23AA35 ***	L23AA36 ***
		Spring Return Non Flush (Projecting)	L21AB01	L21AB02	L21AB03	L21AB04	L21AB05	L21AB06
		Spring Return Mushroom Head Ø32	L21AC01	L21AC02	L21AC03	L21AC04		
		Spring Return Mushroom Head Ø40	L21AD01	L21AD02	L21AD03	L21AD04		
		Spring Return Mushroom Head Ø70	L21AE01		L21AE03			
		Latching Flush	L21CA01	L21CA02	L21CA03	L21CA04	L21CA05	L21CA06
		Latching Non Flush (Projecting)	L21CB01	L21CB02	L21CB03	L21CB04	L21CB05	L21CB06
		Silicon Shroud IP67	LWA0203	LWA0204	LWA0205	LWA0228 (Transparent)	LWA0228 (Transparent)	LWA0228 (Transparent)

For black plastic bezel instead of mat chrome bezel please change part numbers from L21xxxx to L22xxxx  
 For heads with a text or symbol please specify relevant 3 digit code as per the options on page 21  
 For contact blocks and clips please refer to page 19

## NON ILLUMINATED MUSHROOM HEADS IP66

Type	Dimensions	Description	Red	Green	Black	Yellow
		Mushroom Head Ø32 Turn To Reset	L22EC01	L22EC02	L22EC03	L22EC04
		Mushroom Head Ø32 Pull To Reset	L22DC01			
		Mushroom Head Ø40 Turn To Reset	L22ED01	L22ED02	L22ED03	L22ED04
		Mushroom Head Ø40 Pull To Reset	L22DD01		L22DD03	
		Mushroom Head Ø40 Key To Reset  Supplied With 2 Keys Profile 455	L22GM01			

## NON ILLUMINATED EN418 MUSHROOM HEADS IP66

Type	Dimensions	Description	Red
		EN418 Mushroom Head Ø32 Pull To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	L22DQ01
		EN418 Mushroom Head Ø32 Key To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418 Supplied With 2 Keys Profile 455	L22GQ01
		EN418 Mushroom Head Ø40 Pull To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	L22DR01
		EN418 Mushroom Head Ø40 Turn To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	L22ER01
		EN418 Mushroom Head Ø40 Key To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418 Supplied With 2 Keys Profile 455	L22GR01
		EN418 Mushroom Head Ø54 With Flag Indication Pull To Reset Flag & ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	L22DU01A (Text 0 - 1) L22DU01 (Text STOP - 1)

Key profile 1424A also available at no extra cost, other key profiles are available for additional cost please enquire for details  
 For mushroom head accessories please refer to page 20  
 For contact blocks and clips please refer to page 19



## NON ILLUMINATED 2 POSITION SELECTOR / KEY SWITCH HEADS IP66


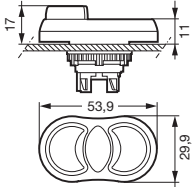





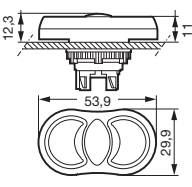









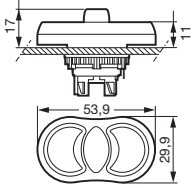






Type	Dimensions	Description						
		Standard Handle	L21KA03	L21KB03	L21KC03	L21KD03	L21KE03	L21KF03
		Long Handle	L21KP03	L21KQ03	L21KR03	L21KS03	L21KT03	L21KU03
		With Knob	L21TA03	L21TB03				L21TF03
		With Key Supplied With 2 Keys Profile 455 Removable Position 0 only	L21LA00	L21LB00	L21LC00	L21LD00		L21LF00
		With Key Supplied With 2 Keys Profile 455 Removable Position 0 1					L21LG00	L21LH00

## NON ILLUMINATED 3 POSITION SELECTOR / KEY SWITCH HEADS IP66


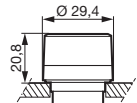

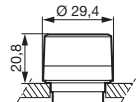

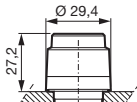
Type	Dimensions	Description					
		Standard Handle	L21MA03	L21MB03	L21MC03	L21MD03	L21MK03
		Long Handle	L21MR03	L21MS03	L21MT03	L21MU03	
		With Knob	L21UA03	L21UB03	L21UC03	L21UD03	L21UK03
		With Key Supplied With 2 Keys Profile 455 Removable Position 0 only	L21NA00	L21NB00	L21NC00	L21ND00	L21NL00
		With Key Supplied With 2 Keys Profile 455 Removable Position 1 0 2					L21NK00

For black plastic bezel instead of mat chrome bezel please change part numbers from L21xxxx to L22xxxx  
 Selector switch heads also available in red, green or grey please enquire for details  
 Key profile 1424A also available at no extra cost, other key profiles are available for additional cost please enquire for details  
 For contact blocks and clips please refer to page 19


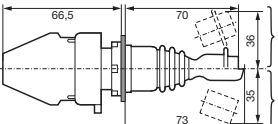

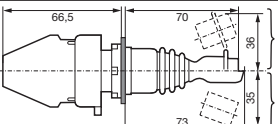

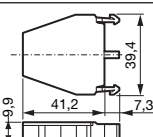
## NON ILLUMINATED TWIN / TRIPLE TOUCH HEADS IP66

Type	Dimensions	Description	Part Number	Part Number	Part Number	Part Number
		Twin Touch Spring Return Flush Projecting	L61QB21  	L61QB21B  START  STOP		
		Twin Touch Spring Return Flush Flush	L61QA21  	L61QA22  	L61QA22K  	L61QA33C  
		Triple Touch Spring Return Flush Projecting Flush	L61BA22   STOP 	L61BA22B   STOP 		


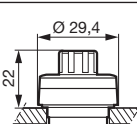
## ADJUSTABLE MECHANICAL PUSH / RESET BUTTON IP65

Type	Dimensions	Description	Red	Green	Black	Yellow	White	Blue
		Spring Return Flush	L21HA01	L21HA02	L21HA03	L21HA04	L21HA05	L21HA06
		Spring Return Flush With text or symbol *** = 3 digit code	L21HA31 ***	L21HA32 ***	L21HA33 ***	L21HA34 ***	L21HA35 ***	L21HA36 ***
		Spring Return Non Flush (Projecting)	L21HB01	L21HB02	L21HB03	L21HB04	L21HB05	L21HB06

## JOYSTICKS IP65


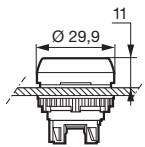

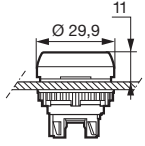

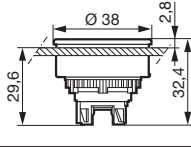

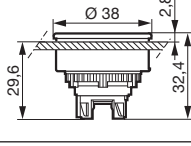

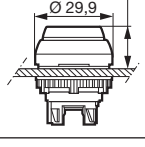

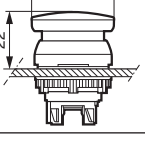

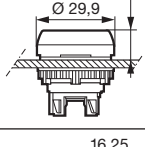

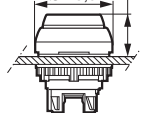
Type	Dimensions	Description	Centre Off 2 Position Stable	Centre Off 2 Position Spring Return	Centre Off 4 Position Stable	Centre Off 4 Position Spring Return
		Non latching position 0 Supplied with 3 position clip	LM2F	LM2A	LM4F	LM4A
		Latching position 0 Supplied with 3 position clip	LMV2F	LMV2A	LMV4F	LMV4A
		Contact block 2 x N/O 1 required for LM2xx 2 required for LM4xx	LM11			

## BUTTON FOR POTENTIOMETER


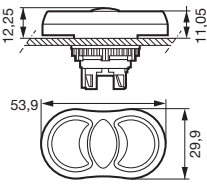





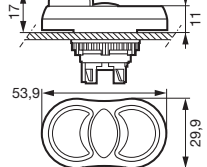




Type	Dimensions	Description	Part Number
		Head supplied with clip for potentiometer Suitable for shaft Ø6-6.35 length 46-51mm Potentiometer not supplied	L21RP03

For heads with a text or symbol please specify relevant 3 digit code as per the options on page 21  
For contact blocks and clips please refer to page 19

## ILLUMINATED PUSHBUTTON HEADS IP66


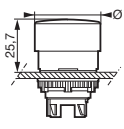

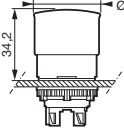

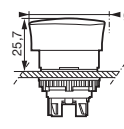

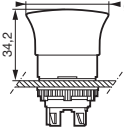
Type	Dimensions	Description	Red	Green	Yellow	White	Blue
		Spring Return Flush	L21AH10	L21AH20	L21AH40	L21AH50	L21AH60
		Spring Return Flush With text or symbol *** = 3 digit code	L21AH31 ***	L21AH32 ***	L21AH34 ***	L21AH35 ***	L21AH36 ***
		Spring Return Super Flush	L23AH10	L23AH20	L23AH40	L23AH50	L23AH60
		Spring Return Super Flush With text or symbol *** = 3 digit code	L23AH31 ***	L23AH32 ***	L23AH34 ***	L23AH35 ***	L23AH36 ***
		Spring Return Non Flush (Projecting)	L21AK10	L21AK20	L21AK40	L21AK50	L21AK60
		Spring Return Mushroom Head Ø32	L21AL10	L21AL20	L21AL40	L21AL50	
		Latching Flush	L21CH10	L21CH20	L21CH40	L21CH50	L21CH60
		Latching Non Flush (Projecting)	L21CK10	L21CK20	L21CK40	L21CK50	L21CK60

## ILLUMINATED TWIN / TRIPLE TOUCH HEADS IP66


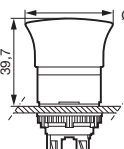
Type	Dimensions	Description	Part Number	Part Number	Part Number
		Twin Touch Spring Return Flush Flush Light In The Centre	L61QH21 	L61QH22V 	L61QH21A  START  STOP
		Twin Touch Spring Return Flush Projecting Light In The Centre	L61QK21 	L61QK53 	L61QK21A  START  STOP

For black plastic bezel instead of mat chrome bezel please change part numbers from L21xxxx to L22xxxx  
 For heads with a text or symbol please specify relevant 3 digit code as per the options on page 21  
 For LED modules, contact blocks and clips please refer to pages 18-19








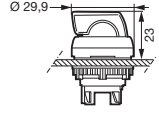

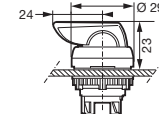
ILLUMINATED MUSHROOM HEADS IP66

Type	Dimensions	Description	Red	Green	Yellow	White
		Mushroom Head Ø32 Turn To Reset	L22EL10			
		Mushroom Head Ø32 Pull To Reset	L22DL10			
		Mushroom Head Ø40 Turn To Reset	L22EM10	L22EM20	L22EM40	
		Mushroom Head Ø40 Pull To Reset	L22DM10	L22DM20	L22DM40	L22DM50







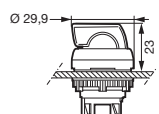

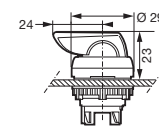
ILLUMINATED EN418 MUSHROOM HEAD IP66

Type	Dimensions	Description	Red
		EN418 Mushroom Head Ø40 Pull To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	L22DN10

2 POSITION ILLUMINATED SELECTOR SWITCH HEADS IP66


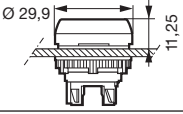

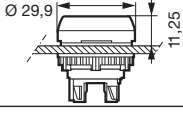

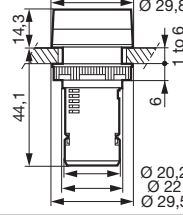

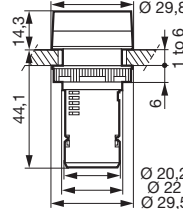
Type	Dimensions	Description						
		Standard Handle Red Green Black	L21KG10 L21KG20 L21KG30	L21KH10 L21KH20 L21KH30	L21KJ10 L21KJ20 L21KJ30	L21KK10 L21KK20 L21KK30	L21KL10 L21KL20 L21KL30	L21KM10 L21KM20 L21KM30
		Long Handle Black	L21KV30		L21KX30	L21KY30		

3 POSITION ILLUMINATED SELECTOR SWITCH HEADS IP66


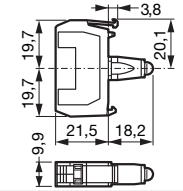

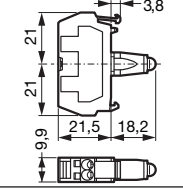

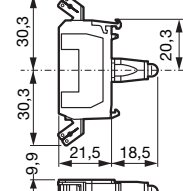

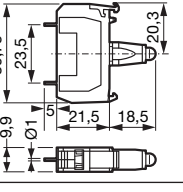

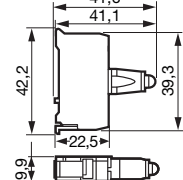
Type	Dimensions	Description					
		Standard Handle Red Green Black	L21ME10 L21ME20 L21ME30	L21MF10 L21MF20 L21MF30	L21MG10 L21MG20 L21MG30	L21MH10 L21MH20 L21MH30	L21MJ10 L21MJ20 L21MJ30
		Long Handle Black	L21ML30	L21MM30	L21MN30	L21MP30	

For black plastic bezel instead of mat chrome bezel please change part numbers from L21xxxx to L22xxxx  
 For mushroom head accessories please refer to page 20  
 For LED modules, contact blocks and clips please refer to page 18-19

## PILOT LIGHTS IP66


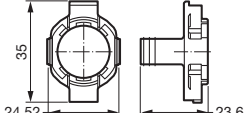

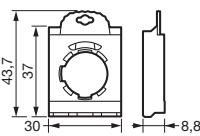

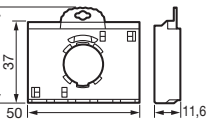
Type	Dimensions	Description	Red	Green	Yellow	White	Blue
		To be used with a clip & LED block	L20SE10	L20SE20	L20SE40	L20SE50	L20SE60
		To be used with a clip & LED block With text or symbol *** = 3 digit code	L20SE31 ***	L20SE32 ***	L20SE34 ***	L20SE35 ***	L20SE36 ***
		One piece pilot light  Requires BA9S lamp (not supplied)	L20SA10	L20SA20	L20SA40	L20SA50	L20SA60
		With integrated LED 24V AC/DC 115V AC 230V AC	L20SA10L L20SA10M L20SA10H	L20SA20L L20SA20M L20SA20H	L20SA40L L20SA40M L20SA40H	L20SA50L L20SA50M L20SA50H	L20SA60L L20SA60M L20SA60H

## LED BLOCKS


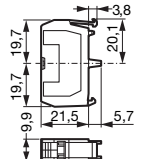

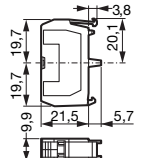

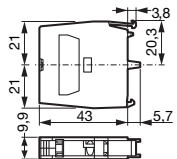

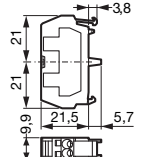

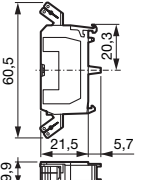

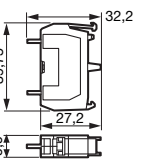

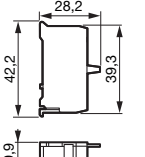
Type	Dimensions	Connection / Voltage	Red	Green	Yellow	White	Blue
		Screw terminals 24V AC/DC 115V AC 230V AC	33EARL 33EARM 33EARH	33EAGL 33EAGM 33EAGH	33EAYL 33EAYM 33EAYH	33EAWL 33EAWM 33EAWH	33EABL 33EABM 33EABH
		Spring clamp terminals 24V AC/DC 115V AC 230V AC	33RARL 33RARM 33RARH	33RAGL 33RAGM 33RAGH	33RAYL 33RAYM 33RAYH	33RAWL 33RAWM 33RAWH	33RABL 33RABM 33RABH
		Faston terminals 24V AC/DC 115V AC 230V AC	33DARL 33DARM 33DARH	33DAGL 33DAGM 33DAGH	33DAYL 33DAYM 33DAYH	33DAWL 33DAWM 33DAWH	33DABL 33DABM 33DABH
		PCB pins 24V AC/DC	33PARL	33PAGL	33PAYL	33PAWL	33PABL
		Screw terminals (for control stations) 24V AC/DC 115V AC 230V AC	33SARL 33SARM 33SARH	33SAGL 33SAGM 33SAGH	33SAYL 33SAYM 33SAYH	33SAWL 33SAWM 33SAWH	33SABL 33SABM 33SABH

For heads with a text or symbol please specify relevant 3 digit code as per the options on page 21


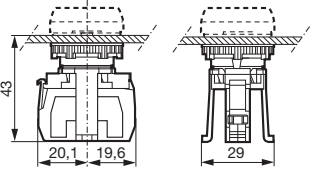

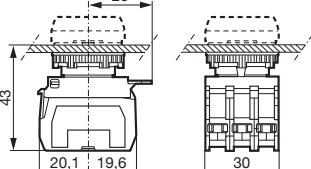
## CLIPS

Type	Dimensions	Description	Part number
		Single clip	331E
		3 position clip	333E
		5 position clip	335E






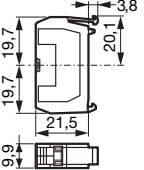
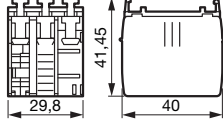
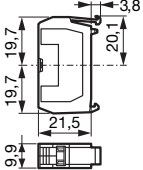
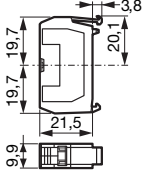
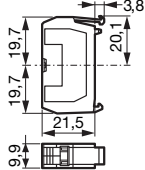
## CONTACT BLOCKS

Type	Dimensions	Connection	Standard N/O	Standard N/C	Standard N/O + N/C	Gold Plated N/O	Gold Plated N/C
		Screw terminals	33E10	33E01		33E10Y7	33E01Y7
		Screw terminals Delayed opening		33E01C			
		Screw terminals			33E11		
		Spring clamp terminals	33R10	33R01			
		Faston terminals	33D10	33D01			
		PCB pins	33P10	33P01		33P10Y7	33P01Y7
		Screw terminals (for control stations)	33S10	33S01			




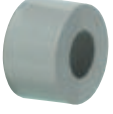








## CLIP & CONTACT BLOCK ASSEMBLIES

Type	Dimensions	Connection	N/O	N/C			
		Screw terminals	331E10	331E01			
		Spring clamp terminals	331ER10	331ER01			
Type	Dimensions	Connection	2 x N/O	2 x N/C	1 x N/O 1 x N/C	3 x N/O	3 x N/C
		Screw terminals	333E20	333E02	333E11	333E30	333E03
		Spring clamp terminals	333ER20	333ER02	333ER11	333ER30	333ER03

## CONTACT BLOCK ACCESSORIES

Diode Module		Transformer Block		Filter Block		Junction Block	Empty Module
							
							
Single 33ET	Double 33ETT	230/24V 33EHC	400/24V 33ELC	130V 33EFM	230V 33EFH	33EY	33EX

## ACCESSORIES

Round Legend Plate		Padlockable Shroud		Padlockable Shroud	Pushbutton Shroud
					
With text "EMERGENCY STOP"		For mushroom heads		For pushbutton heads	For heads up to Ø40mm
Ø60mm	Ø80mm	Height 36mm	Height 40mm		
LWE16300	LWE00300	LWA0239	LWA0240	LWA0226	LWA0225
Reduction Ring		Earth / Neutral Terminal		Din Rail Adapter	Silicon Shroud IP67
					
Converts Ø0mm to Ø22mm hole		For control stations			For twin / triple touch
LWA0219		LWA0216		LWA0238	LWA0223
Blanking Plug		Anti Rotation Plate		Square Bezel	Pushbutton Fixing Tool
					
LWA0229		LWA0237		LWA0230	LWA0234

## LEGEND PLATE HOLDERS

Standard Round Legend Frame	Standard Square Legend Frame	Twin Touch Legend Frame	Wide Round Legend Frame
For legend type LIAx	For legend type LIAx	For legend type LIAx	For legend type LIBx
LWP3	LWP4	LWP2	LWG3

## LEGEND PLATE INSERTS

Type	Dimensions	Description	Aluminium	White	Red	Black	Transparent
		2 lines maximum 13 characters per line	LIA9	LIA5	LIA1	LIA3	LIA7
		2 lines maximum 18 characters per line	LIB9	LIB5	LIB1	LIB3	LIB7

## STANDARD TEXT / SYMBOL CODES

Standard Text							
Text	Code	Text	Code	Text	Code	Text	Code
Alarm	521	Hand - 0 - Auto	591	Power On	330	Start	301
Auto	513	Hand - Auto	583	Raise	307	Stop	302
Close	314	Jog	328	Reset	315	Tripped	3327
Down	336	Lower	308	Reverse	306	Up	335
Fast	310	Off	304	Run	327	0 - I	081
Forward	305	On	303	Running	3326	0 - I - Start	093
Hand	524	Open	313	Slow	309	I - 0 - II	091

### Standard Symbols ISO /DIN

Description	Symbol	Code
Continuous straight line movement ISO 1		A01
Alternating straight line movement ISO 5		A05
Continuous rotating movement clockwise ISO 7A/DIN 100		A07
Continuous rotating mov. anti clockwise ISO 7B		B07
Forward ISO 16		A16
Increase in value ISO 28		A28
Decrease in value ISO 29		A29
Adjustable ISO 62		A62
Clamp, block apply pressure ISO 63A		A63
Clamp, block apply pressure ISO 63B		B63

Description	Symbol	Code
Unclamp, release ISO 64A		A64
Unclamp, release ISO 64D		B64
Brake ISO 65		A65
Release brake ISO 66		A66
Automatic cycle (or semi automatic) ISO 67		A67
Manual control ISO 68		A68
<<ON>> Close circuit ISO 69		A69
<<STOP>> Open circuit ISO 70		A70
ON/OFF close + open circuit ISO 71		A71
Close circuit manual impulse ISO 72/ DIN 168		A72


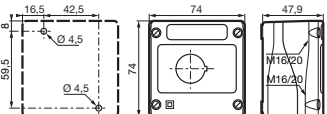

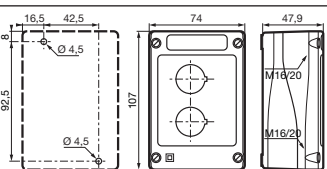

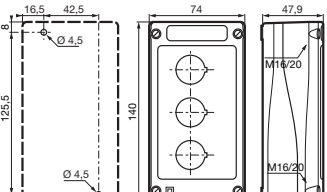

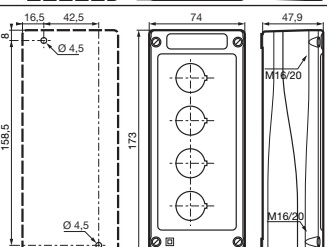

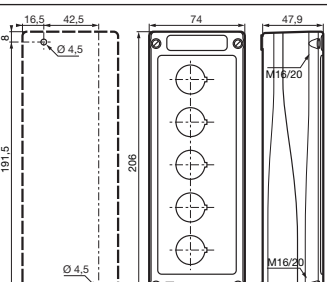
Description	Symbol	Code
Clutch ISO 74/ DIN 46		A74
De-clutch ISO 75/ DIN 45		A75
Warning <<Live>> (energised) ISO 92/DIN 45		A92
Main switch ISO 94		A94
Lubrication jet ISO 101		C01
Machine lighting ISO 102/ DIN 139		C02
Greasing ISO 107/DIN 175		C07
Blow ISO 108/ DIN 264		C08
Suction ISO 109/ DIN 264		C09
(Sound) Alarm DIN 155		D01

### Additional Standard Symbols


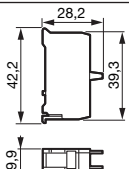

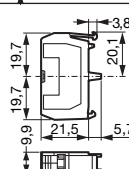

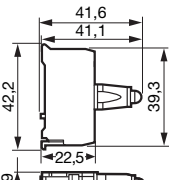
B01	E01	F01	B62	E62	F62	003	004	005



## EMPTY CONTROL STATIONS IP66

Type	Dimensions	Description	Part Number
		One hole empty control station with black base & grey lid One hole empty control station with black base & yellow lid	LBX0100 LBX0100J
		Two hole empty control station with black base & grey lid	LBX0200
		Three hole empty control station with black base & grey lid	LBX0300
		Four hole empty control station with black base & grey lid	LBX0400
		Five hole empty control station with black base & grey lid	LBX0500


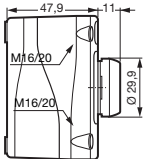

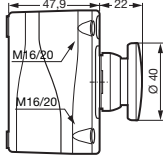

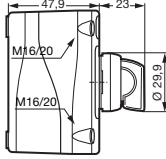

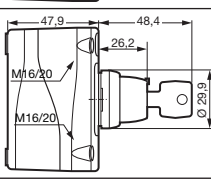

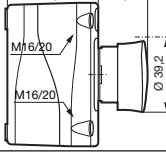

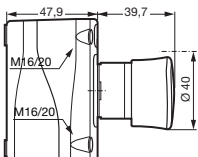

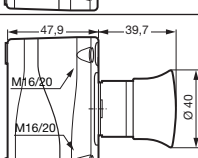

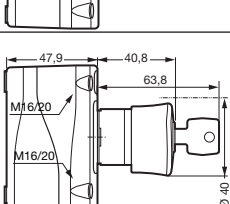

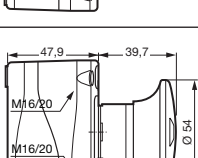

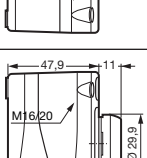
## CONTROL STATION CONTACT BLOCKS & LED MODULES

Type	Dimensions	Connection	Standard N/O	Standard N/C	Gold Plated N/O	Gold Plated N/C	
		Screw terminals for enclosure rear mount	33S10	33S01			
		Screw terminals for enclosure front mount  Also requires 333E clip	33E10	33E01	33E10Y7	33E01Y7	
Type	Dimensions	Connection/Voltage	Red	Green	Yellow	White	Blue
		Screw terminals for enclosure rear mount 24V AC/DC 115V AC 230V AC	33SARL 33SARM 33SARH	33SAGL 33SAGM 33SAGH	33SAYL 33SAYM 33SAYH	33SAWL 33SAWM 33SAWH	33SABL 33SABM 33SABH

All enclosures conform to IEC 60947-5-1 and are rated to IP66

All rear mount contact blocks & LED modules clip directly in to the rear of the box, front mounting contacts are achieved using standard contacts and clip  
A maximum of 3 contacts or 2 contacts and an LED module can be fitted per hole

## COMPLETE CONTROL STATIONS IP66

Type	Dimensions	Description	Head Colour	Text / Symbol	Contacts	Part Number
		Flush pushbutton Spring return	Green	ⓘ	1 x N/O	LBX10110
			Red	⊙	1 x N/C	LBX10610
		Mushroom head Ø40 Spring return	Red	⊙	1 x N/C	LBX10210
		Selector switch 2 position stable	Grey / Black	⊙ ⓘ	1 x N/O	LBX12510
		Key switch 2 position stable Supplied With 2 Keys Profile 455 Removable Position 0 1	Grey / Black	⊙ ⓘ	1 x N/O	LBX12610
		Mushroom head Ø40 Turn to reset	Red	EMERGENCY STOP	1 x N/C	LBX10510
		EN418 Mushroom Head Ø40 Turn To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	Red	EMERGENCY STOP	1 x N/C 2 x N/C	LBX17301 LBX17302
		EN418 Mushroom Head Ø40 Pull To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	Red	EMERGENCY STOP	1 x N/C 2 x N/C	LBX15301 LBX15302
		EN418 Mushroom Head Ø40 Key To Reset Yellow ring for head position visual indication Conforms to IEC 60947-5-5 / EN418 Supplied With 2 Keys Profile 455	Red	EMERGENCY STOP	1 x N/C 2 x N/C	LBX11301 LBX11302
		EN418 Mushroom Head Ø54 Pull To Reset Flag & ring for head position visual indication Conforms to IEC 60947-5-5 / EN418	Red	STOP ⓘ STOP ⓘ	1 x N/C 2 x N/C	LBX13101 LBX13102
		Flush pushbuttons x 2 Spring return	Green & Red	ⓘ ⊙	1 x N/O 1 x N/C	LBX20120

All enclosures conform to IEC 60947-5-1 and are rated to IP66

All contact blocks are mounted in the rear of the box

Front mounting contacts and other configurations are available please enquire for details