Pushbuttons B3



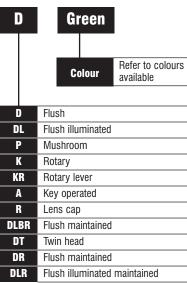
- IP65 protection
- Opaque or illuminated
- Metal or Black bezels
- Snap-on contact blocks
- Colour coded contacts
- Pushbutton stations
- International approvals including UL and CSA

Options and ordering codes

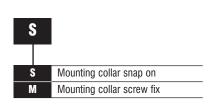
To order - select actuator + mounting collar + contacts



Actuator	BS		3	
		•		
Metal bezel	В			
Black bezel	BS			
Chrome bezel	BC			
			ı	
Actuator 22.5mm			3	

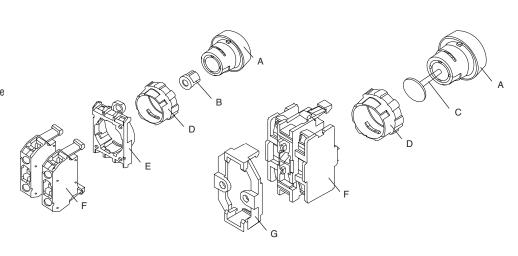


Mounting collar B3 Series



Exploded view

- A Actuator or lens cap.
- **B** P642 insert for use with contact in centre position
- C B4V extension bar
- **D** Locking ring
- **E** Mounting collar
- F Contact blocks/lampholders
- **G** Base/DIN rail mount





Selection and product ordering codes ○ Metal Bezel ● Black Bezel ● Chrome Bezel

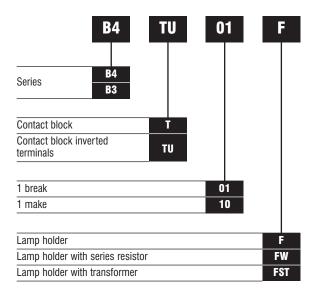
Opaque	Description		Product
Momentary	Flush Green-Red-Black Yellow-Blue	<u> </u>	B(S,C)3D
	Mushroom 28mm Red-Red O-Yellow Black	•	B(S,C)3P1
	Mushroom 40mm Red 0	0	B(S,C)3P14
Maintained	Mushroom 28mm Twist to Release Red-Red O	•	B(S,C)3P3
	Mushroom 40mm Twist to Release Red 0	<u> </u>	B(S,C)3P34
O	Mushroom 40mm Key Release Red	•	BS3P44S3
	Mushroom 40mm Pull to Release Red	•	BS3P44 BS3P45
Rotary knob	3 posn. spring Return to centre 60°–0–60° Black	<u> </u>	B(S,C)3KN1
	2 posn. maintained 0–60° Black	<u> </u>	B(S,C)3KN2
	3 posn. maintained 60°-0-60° Black	0	B(S,C)3KN3
	Lever 3 posn. Spring return 60°–0–60° Black	0	B(S,C)3KRN1
	Lever 3 posn. Maintained 60°-0-60° Black	<u> </u>	B(S,C)3KRN3
	3 Posn. spring Return from right Maintained left	•	B(S,C)3KN6
	3 Posn. spring Return from left Maintained left	<u> </u>	B3(S,C)KN7
	2 Posn. maintained 30°-30°	<u> </u>	B(S,C)3KN8
	2 Posn. spring Return from left	<u> </u>	B(S,C)3KN9
	2 Posn. toggle Switch without off	<u> </u>	B(S,C)3KN10
Twin Head	Double head Momentary indicating Red/Green - Black/Whit	re 💮	B(S,C)3DT

	Description		Product
Key Operated Maintained	2 Posn. Key Remove-Off	0	B(S,C)3SAR1
	2 Posn. Key Remove-On	0	B(S,C)3SAR1
	2 Posn. Key Remove-All	0	B(S,C)3SAR01
	3 Posn. Key Remove-Off	0	B(S,C)3SARRO
	3 Posn. Key Remove-All Spring return	•	B(S,C)3SARR102
	2 Posn. Key Remove-Off	0	B(S,C)3SATO
	3 Posn. Key Remove-Off	<u> </u>	B(S,C)3SATTO

Illuminated	Description		Product
Momentary	Flush Green-Red-White-Blue Yellow-Clear	Flush Oreen-Red-White-Blue	
	Maintained Illuminat	ed/Non-II	luminated
	Flush illuminated maintained Blue-Green Red-White-Yellow		B(S,C)DR
	Flush maintained Blue-Green Red-White-Yellow	0	B(S,C)3DLR
Lens Cap	Low Profile Red-Yellow-Green Clear-White-Blue	0	B3R
	Plastic Red-Yellow-Green White-Blue	•	B3RF
Rotary knob	3 posn. spring Return to centre 60°-0-60° Clear	• •	B(S,C)3KL1
	2 posn. maintained 0–90° Clear	<u> </u>	B(S,C)3KL2
	3 posn. maintained 60°-0-60° Clear	0	B(S,C)3KL3
	Lever 3 posn. Spring return 60°-0-60° Clear	•	B(S,C)3KRL1
	Lever 3 posn. Maintained	0	B(S,C)3KRL3



Options and ordering codes



Description

Contact assemblies



Product
B3T10
B3T01

Lamp holder and contact assemblies



Description	Product
Lamp holder only (1.7W max) Lamp holder with dropper resistor 110 or 230V AC – down to 42V	B3F B3FW
Lamp holder with series resistor 230 down to 130V 2.6W	B3FR
Lamp holder and transformer 230 or 415V AC – down to 6V	B4FST
Transformer only 230 or 415V AC – down to 6V	B4ST

Accessories



Lamps BA9S 6V 24V 42V 1.2W 130V 2.6W Neon 240V 110V	Lamp V Neon V
Legend plate with holder Holder Blank	P751 BK4-9736
Legends-start-stop-reset- fwd-rev-hoa	BK4 LEG
Mounting Collars	B3S/B3M
Base or DIN mounting adaptor	B4U
Sealing shroud 0 to 50°C	P279-1
Sealing shroud -40 to +60°C	P279-2
Spare key	B4-R455
Adaptor ring for 30.5mm holes	B4-7282
Coupler for BKLG enclosures	B4-8852
Actuator – insert for centre position	P642
Push button wrench	J7049
Contacts for use with enclosures	
1 make	B4TU10
1 break	B4TU01
2 makes	B4TU20
2 breaks	B4TU02
1 make + 1 break	B4TU11
With lamp holder	
1 make	B4TU10F
1 break	B4TU01F
2 makes	B4TU20F
2 breaks	B4TU02F
1 make + 1 break	B4TU11F

Product









Description	Product
Contacts for use with enclosu	ıres
With series resistor 110 or 24	OV AC
to 42V lamp 1 make	B4TU10FW
1 break	B4TU01FW
Lamp base only for BA9S	B4FU
Lamp base and resistor 110 o	r 240V AC
to 42V lamp	B4FWU
Transformer and lamp base 24	10 or
415V to 6V lamp	B4FSTU

Enclosures	
Single	BG1
Single with yellow lid	BG1YEL
Double	BG2
Triple	BG3

Assembled units	
Emergency stop 40mm maintained turn to release	
lid with 2 N/C contacts	BG10P34
Emergency stop 40mm	
maintained key release yel	
lid with 2 N/C contacts	BG10P44S3
Start-stop flush green	

and red pushbuttons 2 way with 1 N/O and 1 N/C contact BG20

Mushroom pushbutton red

Ø70mm yellow lid with 2 N/C contacts BG10P34P
Foot and Palm switch mushroom pushbutton Ø70mm

mushroom pushbutton Ø70mm grey with 1 N/O and 1 N/C contacts BG10P14PGR



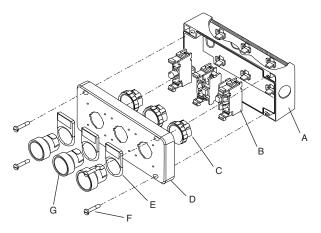


Technical data

Terminal markings for control units according to DIN EN 50013

Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	The actuators of the contact blocks are colour coded, green for NO, red for NC. The colour code permits to know the function of contacts at first sight and gives additional safety against wrong wiring.
20 13 23	11 14 22			02	
30 14 24 34	13 21 33 21 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	13 21 31		03	
13 23 33 43 40 +	31 13 21 33 43	13 21 31 43 22	13 21 31 41 13 -\	11 21 31 41 04	

Exploded view enclosure assembly



- A Enclosure base with built in contact block clips
- **B** Contact blocks/lamp holders
- C Locking ring
 D Enclosure lid
- **E** Legend plates
- F Captive screws (after screw in) loose in enclosure on delivery
- **G** Actuators and lens caps

Data according to IEC947-5-1, VDE0660, EN60947-5-1

Specification

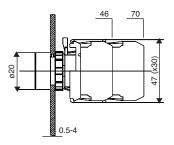
Colour Codes

• ,	,		
Rated insulation voltage		V AC	500
AC12 – resistive loads	220-240V	Α	10
	380-415V	Α	10
AC15 – Electromagnetic loads	220-240V	Α	6
	380-415V	Α	5
DC12 – resistive $L/R = 1mS$	24V	Α	10
	60V	Α	6
	110V	Α	2.5
	220V	Α	0.8
DC14 - Electromagnetic L/R = 15mS	24V	Α	8
DC14 – With economy resistors	60V	Α	1
	110V	Α	2
	220V	Α	0.5
DC13 - Electromagnets L/R = 300mS	24V	Α	2
	60V	Α	5
	110V	Α	0.5
	220V	Α	0.2
Mechanical life Millions of	of operations		10
Contact life (AC15)			40
100VA Millions o 300VA	of operations		10 3
800VA			1
1200VA			0.5
Maximum frequency of operations (Ops per hour		600
Short circuit protection	slow gL	Α	10
Ambient temperature		°C	-20 to +50
Cable cross-section	Solid	mm²	0.5 - 2.5
Cable	Flexible es per clamp	mm²	0.5 – 2.5 2
Oubic	75 por ciarrip		
Mounting hole		Ømm	22.5
Mounting position			Optional
Terminal screws		Pozidrive No	2 screws 3.5

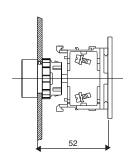


Dimensions (mm)

Panel mounting

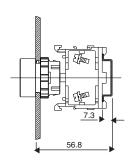


Base mounting

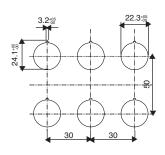


Dimensions of minimum space requirements (according to EN 50007 and IEC337-2C). Take to consideration the field of traverse of swing knobs (27mm) and the diameter of mushroom heads.

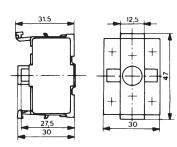
DIN-rail mounting



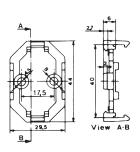
Mounting holes



Contact blocks Lamp holders B4...



Base B4U



Enclosures for Custom Built Stations

Three conduit entries (knockouts), each on top, left and right side, suitable for Pg 13.5. Version "CSA" with three knockouts Ø 22.2mm.

