Pushbuttons B3

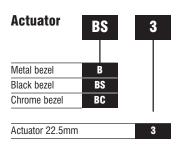


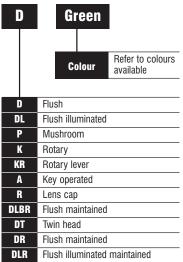
- IP65 protection
- Opaque or illuminated
- Metal or Black bezels
- Snap-on contact blocks
- Colour coded contacts
- Pushbutton stations
- International approvals including UL and CSA

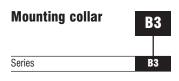


To order – select actuator + mounting collar + contacts





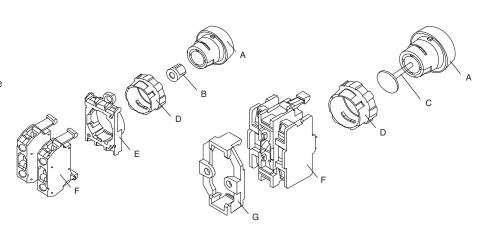






Exploded view

- A Actuator or lens cap.
- $\boldsymbol{\mathsf{B}}$ 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 \bigcirc Metal Bezel lacktriangle Black Bezel lacktriangle Chrome Bezel

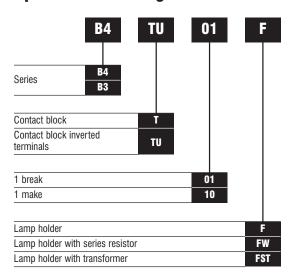
Opaque	Description		Product
Momentary	Flush Green-Red-Black Yellow-Blue	•	B(S,C)3D
	Mushroom 28mm Red-Red O-Yellow Black	0	B(S,C)3P1
	Mushroom 40mm Red 0	0	B(S,C)3P14
Maintained	Mushroom 28mm Twist to Release Red-Red O	0	B(S,C)3P3
	Mushroom 40mm Twist to Release Red 0	•	B(S,C)3P34
O	Mushroom 40mm Key Release Red	•	BS3P44S3
	Mushroom 40mm Pull to Release Red	•	BS3P44 BS3P45
Rotary knob	3 posn. spring Return to centre 60°-0-60° Black	•	B(S,C)3KN1
	2 posn. maintained 0–60° Black	0	B(S,C)3KN2
	3 posn. maintained 60°-0-60° Black	•	B(S,C)3KN3
	Lever 3 posn. Spring return 60°-0-60° Black	<u> </u>	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	0	B(S,C)3KN6
	3 Posn. spring Return from left Maintained left	•	B3(S,C)KN7
	2 Posn. maintained 30°-30°	•	B(S,C)3KN8
	2 Posn. spring Return from left	0	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/White	0	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	0	B(S,C)3SARR102
	2 Posn. Key Remove-Off	0	B(S,C)3SATO
	3 Posn. Key Remove-Off	0	B(S,C)3SATTO

Illuminated	Description		Product		
Momentary	Flush Green-Red-White-Blue Yellow-Clear	Flush Green-Red-White-Blue			
	Maintained Illuminated/Non-Illuminated				
	Flush illuminated maint Blue-Green Red-White-Yellow				
	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	<u> </u>	B(S,C)3KL1		
	2 posn. maintained 0–90° Clear	0	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 60°-0-60° Clear	0	B(S,C)3KRL3		



Options and ordering codes



Description

Contact assemblies



Description	Product	
1 make	B3T10	
1 break	B3T01	

Lamp holder and contact assemblies



Description	Product
Lamp holder only (1.7W max) Lamp holder with dropper resistor	B3F
110 or 230V AC – down to 42V	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 enclos	ures
With series resistor 110 or 24	IOV AC
to 42V lamp 1 make	B4TU10FW
1 break	B4TU01FW
Lamp base only for BA9S	B4FU
Lamp base and resistor 110 (or 240V AC
to 42V lamp	B4FWU
Transformer and lamp base 2	40 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 ye lid with 2 N/C contacts	llow BG10P34
Emergency stop 40mm maintained key release yellov lid with 2 N/C contacts	v BG10P44S3
Start-stop flush green and red pushbuttons 2 way v 1 N/O and 1 N/C contact	
Mushroom pushbutton red Ø70mm yellow lid with 2 N/C contacts) BG10P34P
Foot and Palm switch mushroom pushbutton Ø70n grey with 1 N/O and 1 N/C	nm

contacts



BG10P14PGR

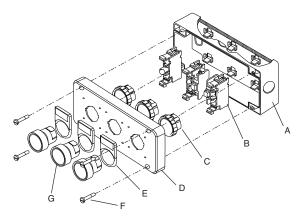


Technical data

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.
13 23 20 1-\\-14 24	13 21			02 11 21	
30 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 21 33 21 1-1-1-1 14 22 34	13 21 31 12 1-1-1-1 14 22 32		03 11 21 31	
13 23 33 43 40 +	31 13 21 33 43	13 21 31 43 22 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	13 21 31 41 13 11 22 32 42	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

Specification

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

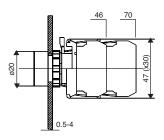
Colour Codes

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	f operations		10
Contact life (AC15)			
100VA Millions of 300VA	f operations		10 3
800VA			1
1200VA			0.5
Maximum frequency of operations 0	ps per hour		600
Short circuit protection	slow gL	А	10
Ambient temperature		°C	-20 to +50
Cable cross-section	Solid	mm ²	0.5 – 2.5
Cablos	Flexible	mm²	0.5 – 2.5 2
Cables	s per clamp		
Mounting hole		Ømm	22.5
Mounting position			Optional
Terminal screws		Pozidrive No	2 screws 3.5

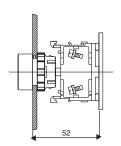


Dimensions (mm)

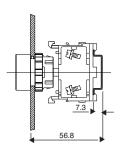
Panel mounting



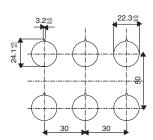
Base mounting



DIN-rail mounting

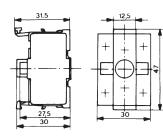


Mounting holes

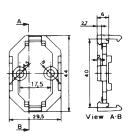


Dimensions of minimum space requirements (according to EN 50007 and IEC337-2C). Take to consideration the field of traverse of swing knobs (27mm) and the diameter of mushroom heads.

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.

