Pushbuttons B3



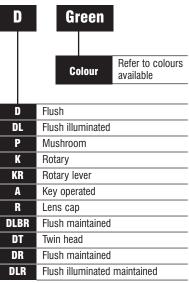
- IP65 protection
- Opaque or illuminated
- Metal or Black bezels
- Snap-on contact blocks
- Colour coded contacts
- Pushbutton stations
- International approvals including UL and CSA

Options and ordering codes

To order - select actuator + mounting collar + contacts



Actuator	uator BS		3		
Metal bezel	В				
Black bezel	BS				
Chrome bezel	BC				
			'		
Actuator 22.5mm			3		

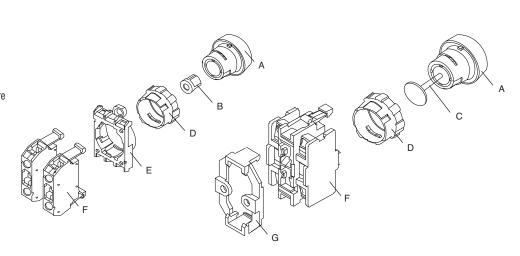


Mounting collar B3 Series

Mounting collar snap on
Mounting collar screw fix

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

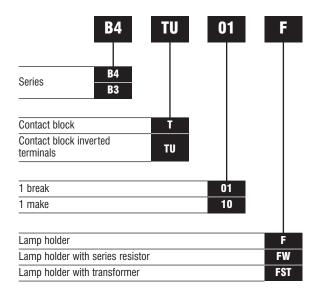
Opaque	Description		Product	
Momentary	Flush Green-Red-Black Yellow-Blue	0	B(S,C)3D	
	Mushroom 28mm Red-Red O-Yellow Black	•	B(S,C)3P1	
	Mushroom 40mm Red 0	•	B(S,C)3P14	
Maintained	Mushroom 28mm Twist to Release Red-Red O	•	B(S,C)3P3	
	Mushroom 40mm Twist to Release Red 0	•	B(S,C)3P34	
O	Mushroom 40mm 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	•	B(S,C)3KN2	
	3 posn. maintained 60°-0-60° Black	<u> </u>	B(S,C)3KN3	
	Lever 3 posn. Spring return 60°-0-60° Black	•	B(S,C)3KRN1	
	Lever 3 posn. Maintained 60°-0-60° Black	•	B(S,C)3KRN3	
	3 Posn. spring Return from right Maintained left	•	B(S,C)3KN6	
	3 Posn. spring Return from left Maintained left	•	B3(S,C)KN7	
	2 Posn. maintained 30°-30°	<u> </u>	B(S,C)3KN8	
	2 Posn. spring Return from left	O •	B(S,C)3KN9	
	2 Posn. toggle Switch without off	0	B(S,C)3KN10	
Twin Head	Double head Momentary indicating Red/Green - Black/White	O •	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	<u> </u>	B(S,C)3SAR01
0	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	0	B(S,C)3SATTO

Illuminated	Description	Product
Momentary	Flush Green-Red-White-Blue Yellow-Clear	B(S,C)3DL
	Maintained Illuminated/No	on-Illuminated
	Flush illuminated maintained Blue-Green Red-White-Yellow	B(S,C)DR
	Flush maintained Blue-Green Red-White-Yellow	B(S,C)3DLR
Lens Cap	Low Profile Red-Yellow-Green Clear-White-Blue	B3R
	Plastic Red-Yellow-Green White-Blue	B3RF
Rotary knob	3 posn. spring Return to centre 60°-0-60° Clear	B(S,C)3KL1
	60°-0-60° Clear 2 posn. maintained 0-90° Clear 3 posn. maintained 60°-0-60° Clear	B(S,C)3KL2
	3 posn. maintained 60°-0-60° Clear ●	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	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	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 _ Neon _	_V _V
Legend plate with holder		
Holder Blank	P751 BK4-97	20
	BN4-97	30
Legends-start-stop-reset- fwd-rev-hoa	BK4	LEC
Mounting Collars	B3S/B3	IVI
Base or DIN mounting adaptor		
Sealing shroud 0 to 50°C	P279-1	
Sealing shroud -40 to $+60^{\circ}$ C	P279-2	
Spare key	B4-R45	5
Adaptor ring for 30.5mm holes	B4-728	2
Coupler for BKLG enclosures	B4-885	2
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	yellow
lid with 2 N/C contacts	BG10P34
Emergency stop 40mm maintained key release ye	llow
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

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



B3/07/08 www.imopc.com



Technical data

Terminal markings for control units according to DIN EN 50013

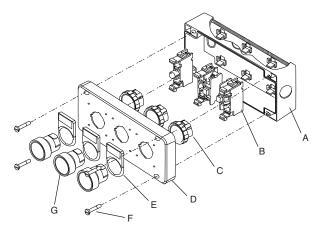
Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	The actuators of the contact bl coded, green for NO, red for NI The colour code permits to know
10 I-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				01 1-7	contacts at first sight and gives against wrong wiring.
20 +	11 14 22			02 11 21	
30 1-1-1-1 14 24 34	21 13 21 33	13 21 31		03 11 21 31	
40 1 1 2 3 3 3 4 3 4 4 4 4 4 4 4 4	13 21 33 43 31 +\	22	13 21 31 41 13 1-1-7-7-7-1 14 22 32 42	11 21 31 41 04)	

Colour Codes

blocks are colour now the function of es additional safety



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

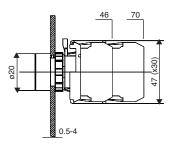
Data according to IEC947-5-1, VDE0660, EN60947-5-1

20-240V 80-415V 20-240V 80-415V 24V 60V 110V 220V 24V 60V 110V 220V 24V 60V 110V 220V 24V 60V	A A A A A A A A A A	0.5 2 5 0.5 0.2
20-240V 30-415V 24V 60V 110V 220V 24V 60V 110V 220V 24V 60V 110V 220V 24V	A A A A A A A A A	6 5 10 6 2.5 0.8 8 1 2 0.5 2 5 0.5
30-415V 24V 60V 110V 220V 24V 60V 110V 220V 24V 60V 110V 220V	A A A A A A A A A	5 10 6 2.5 0.8 8 1 2 0.5 2 5 0.5 0.5
24V 60V 110V 220V 24V 60V 110V 220V 24V 60V 110V 220V	A A A A A A A A	10 6 2.5 0.8 8 1 2 0.5 2 5 0.5 0.5
60V 110V 220V 24V 60V 110V 220V 24V 60V 110V 220V	A A A A A A	6 2.5 0.8 8 1 2 0.5 2 5 0.5
110V 220V 24V 60V 110V 220V 24V 60V 110V 220V	A A A A A A	2.5 0.8 8 1 2 0.5 2 5 0.5 0.5
220V 24V 60V 110V 220V 24V 60V 110V 220V	A A A A A	0.8 8 1 2 0.5 2 5 0.5 0.5
24V 60V 110V 220V 24V 60V 110V 220V	A A A A A	8 1 2 0.5 2 5 0.5 0.5
60V 110V 220V 24V 60V 110V 220V	A A A A	1 2 0.5 2 5 0.5 0.2
110V 220V 24V 60V 110V 220V	A A A A	2 0.5 2
220V 24V 60V 110V 220V	A A A	0.5 2 5 0.5 0.2
24V 60V 110V 220V	A A A	2 5 0.5 0.2
60V 110V 220V	A A	5 0.5 0.2
110V 220V	А	0.5 0.2
220V		0.2
	A	
erations		10
erations		10 3
		3 1
		0.5
per hour		600
slow gL	А	10
	°C	-20 to +50
Solid	mm²	0.5 – 2.5
	mm²	0.5 – 2.5 2
or Clarrip		
	Ømm	22.5
		Optional
•	Flexible er clamp	Flexible mm ² er clamp

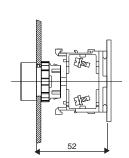


Dimensions (mm)

Panel mounting

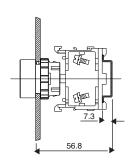


Base mounting

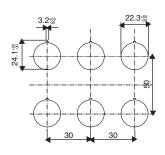


Dimensions of minimum space requirements (according to EN 50007 and IEC337-2C). Take to consideration the field of traverse of swing knobs (27mm) and the diameter of mushroom heads.

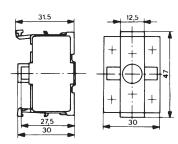
DIN-rail mounting



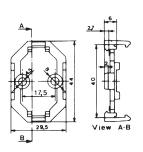
Mounting holes



Contact blocks Lamp holders B4...

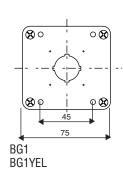


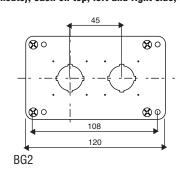
Base B4U

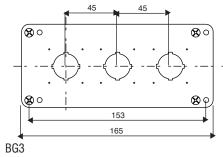


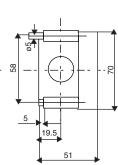
Enclosures for Custom Built Stations

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









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