IMO

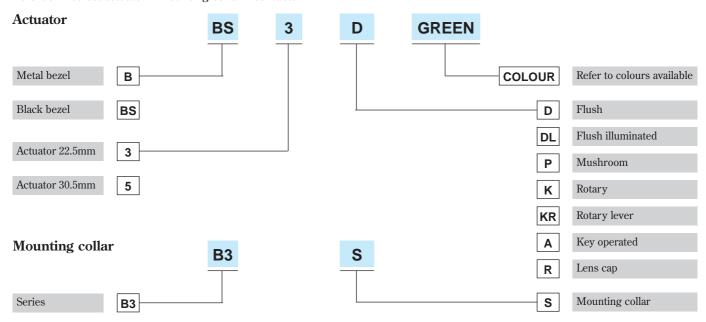
Pushbuttons

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

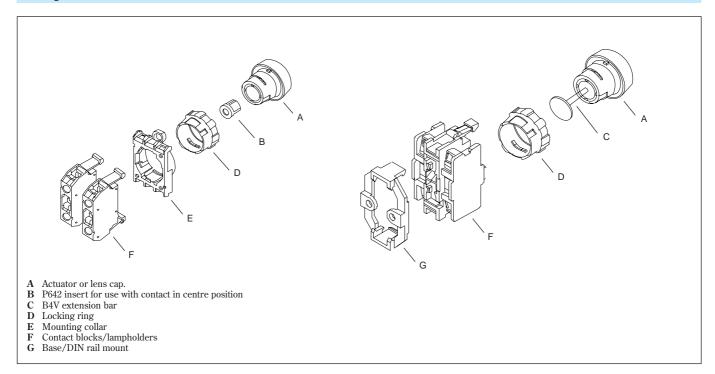


Options and ordering codes

To order – select actuator + mounting collar + contacts



Exploded view



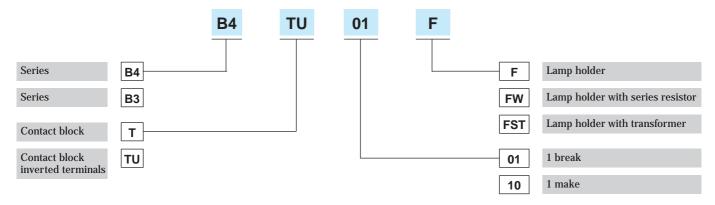


Selection and product pricing

OPAQUE OM	Ietal Bezel ● Blac	ek Bezel	ILLUMINATED		
Momentary	Description		Momentary	Description	
ivioliental y	Flush Green-Red-Black Yellow-Blue Mushroom 28mm Red-Red O-Yellow Black Mushroom 40mm Red O		Womentary .	Flush Green-Red-White- Blue Yellow-Clear * max 1.2W lamp	○●
Maintained			Lens Cap		
0	Mushroom 28mm Twist to Release Red-Red O Mushroom 40mm Twist to Release Red O Mushroom 40mm Key Release Red Mushroom 40mm Pull to Release Red	•		Low Profile Red-Yellow-Green Clear-White-Blue Plastic Red-Yellow-Green White-Blue High Profile Red-Yellow-Green White-Blue Flush Red-Yellow-Green Clear-White-Blue	•
Rotary Knob	2 noon onving		Rotary Knob	0	
	3 posn. spring Return to centre 60°-0-60° Black	•		3 posn. spring Return to centre 60°-0-60° Clear	•
	2 posn. maintained 0–60° Black	•		2 posn. maintained 0–90° Clear	•
	3 posn. maintained 60°-0-60° Black	•		3 posn. maintained 60°-0-60° Clear	•
	Lever 3 posn. Spring return 60°-0-60° Black	•		Lever 3 posn. Spring return 60°-0-60° Clear	•
	Lever 3 posn. Maintained 60°-0-60° Black	•		Lever 3 posn. Maintained 60°-0-60° Clear	•
Key Operated			Momentary		
Maintained	2 Posn. Key Remove-Off	•	B5 range (30.5mm)		
	2 Posn. Key Remove-On 2 Posn. Key Remove-All 3 Posn.		0	Flush Green-Red Yellow-Blue Illuminated	○ •
49	Key Remove-Off 3 Posn. Key Remove-All	0		Flush Green-Red Yellow-Blue	O •
	Spring return 2 Posn. Key Remove-Off 3 Posn.	0	€ Euro prices on	request	
	Key Remove-Off	○ ●			



Options and ordering codes



Selection and product pricing

CONTACT ASSEMBLIES



Description	
1 make	
1 break	

LAMP HOLDER AND CONTACT ASSEMBLIES



Description

Description

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

Accessories



Lamps BA9S 6V 24V 42V 1.2W 130V 2.6W Neon 240V 110V
Legend plate with holder
Holder
Blank
Legends-start-stop-reset-fwd-rev-HOA
3.5
Mounting Collar
Mounting Collar Base or DIN mounting adaptor
S
Base or DIN mounting adaptor
Base or DIN mounting adaptor Sealing shroud 0 to 50°C
Base or DIN mounting adaptor Sealing shroud 0 to 50°C Sealing shroud -40 to +60°C
Base or DIN mounting adaptor Sealing shroud 0 to 50°C Sealing shroud -40 to +60°C Spare key

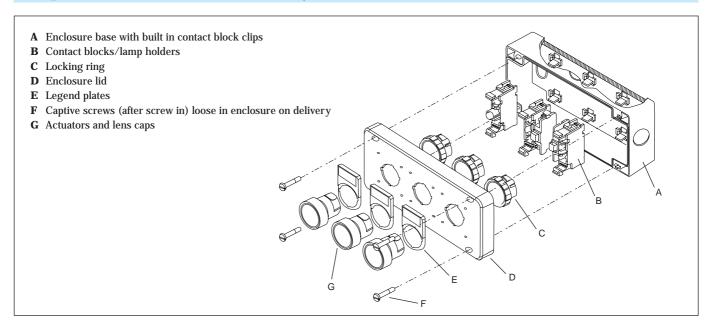
 \in Euro prices on request



Selection and product pricing

Description	Description		
Enclosures Single Single with yellow lid Double Triple	Contacts for use with enclosures 1 make 1 break 2 makes 2 breaks 1 make + 1 break With lamp holder		
Assembled units Emergency stop 40mm maintained turn to release yellow lid with 2 N/C contacts Emergency stop 40mm maintained key release yellow lid with 2 N/C contacts	1 make 1 break 2 makes 2 breaks 1 make + 1 break With series resistor 110 or 240V AC to 42V lamp 1 make 1 break		
Start-stop flush green and red pushbuttons 2 way with 1 N/O and 1 N/C contact Mushroom pushbutton red Ø70mm yellow lid with 2 N/C contacts Foot and Palm switch mushroom pushbutton Ø70mm grey with 1 N/O and 1 N/C contacts	Lamp base only for BA9S Lamp base and resistor 110 or 240V AC to 42V lamp Transformer and lamp base 240 or 415V to 6V lamp		

Exploded view enclosure assembly



 \in Euro prices on request



Technical data

Terminal markings for control units according to DIN EN 50013				Colour code	
Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. Contacts number elements	Distinc. number Contacts 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	13 21			02	4 4
30 1-1-1-1 14 24 34	13 21 33 21 14 22 34	13 21 31 12 13 14 22 32		03 1-7-7-1	
13 23 33 43 40 1-1-1-1-1 14 24 34 44	31 1-1-1-1-1-1	22 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	13 21 31 41	04 +	

Specifications

Rated insulation voltage		V AC	500
AC12 – resistive loads	220-240V	A	10
	380-415V	A	10
AC15 – Electromagnetic loads	220-240V	A	6
	380-415V	A	5
DC12 - resistive L/R = 1mS	24V	A	10
	60V	A	6
	110V	A	2.5
DC14 Electronic de dé I /D 15 C	220V	A	0.8
DC14 – Electromagnetic L/R = 15mS	24V 60V	A A	8
With economy resistors	110V	A	2
	220V	A	0.5
DC13 – Electromagnets L/R = 300mS	24V	Ä	2.3
Delo Licettomagnets L/ It = 500ms	60V	A	5
	110V	A	0.5
	220V	A	0.2
Mechanical life	Millions of operations		10
Contact life (AC15)			
100VA	Millions of operations		10
300VA			3
800VA			1
1200VA			0.5
Maximum frequency of operations	Ops per hour		600
Short circuit protection	slow gL	A	10
Ambient temperature		°C	-20 to +50
Cable cross-section	Solid	mm²	0.5 - 2.5
	Flexible	mm^2	0.5 - 2.5
	Cables per clamp		2
Mounting hole		Ømm	22.5
Mounting position			Optional
Terminal screws	minal screws Pozidrive		



Dimensions (mm)

