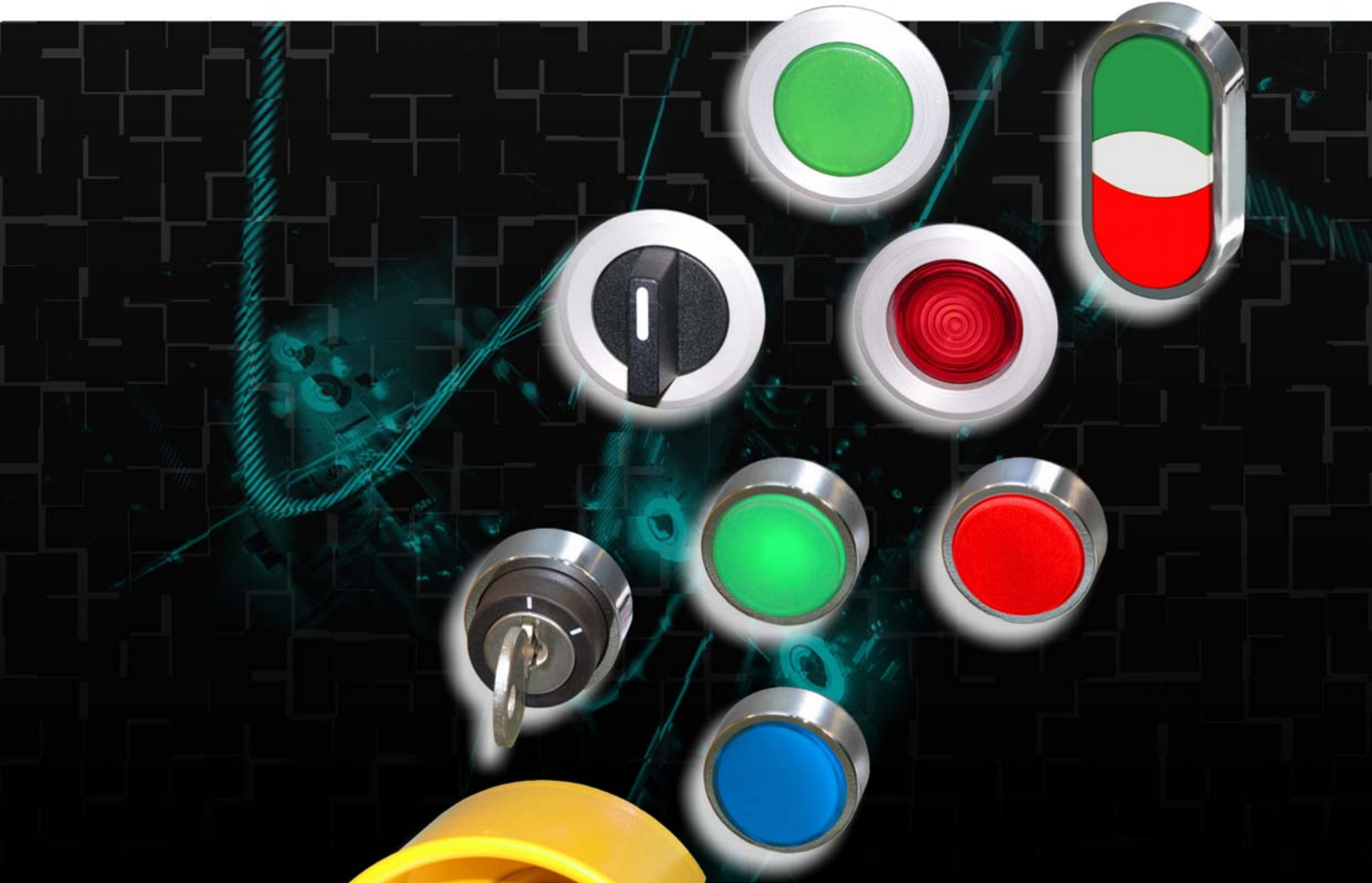


Push Buttons

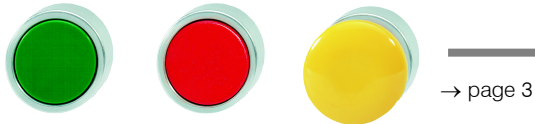


# Index

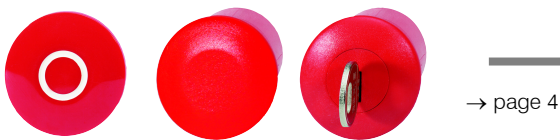
	Actuators and Lens Caps	Page
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	Rotary Knobs and Swing Knobs Illuminated Rotary Knobs and Swing Knobs Illuminated Push Buttons	5 5 6
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# Actuators and Lens Caps 22mm IP65, Type12

## Push Buttons



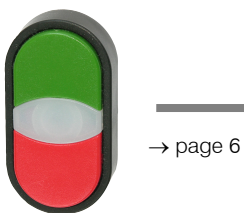
## EMERGENCY STOP Buttons



## Illuminated Operators



## Double Push Buttons with Indicator Lamp



## Lens Caps

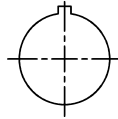


## Mono Block Multi Chip LED IP65, IEC 60947, EN 60947

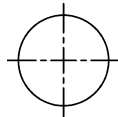


Mounting hole  
Ø 22,5mm

with key way



without key way



→ page 4



→ page 14

Wrench  
for Actuators  
Lens Caps and  
Mono Block Multi Chip LED  
J7049



## Connectors



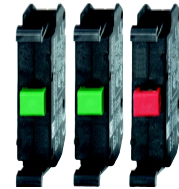
→ page 12

or

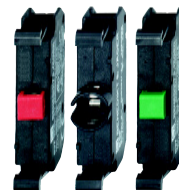


→ page 12

## Connectors Lamp Holders



→ page 12



→ page 12



LED  
24-230V












Filament  
6-130V








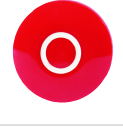


Glow-discharge  
230V

→ page 7

# Actuators 22mm IP65, Type12

	Colour	Symbol	 Alu	 Black	 Chrome	Pack pcs.	Weight kg/pc.
<b>Push Buttons, Actuator Caps markable</b>							
	red	0	B3D RT	BS3D RT	BC3D RT	10	0,014
	red		B3D RT-0	BS3D RT-0	BC3D RT-0	10	0,014
	green		B3D GN	BS3D GN	BC3D GN	10	0,014
	green	I	B3D GN-I	BS3D GN-I	BC3D GN-I	10	0,014
green	II	B3D GN-II	BS3D GN-II	BC3D GN-II	10	0,014	
green	→	B3D GN-PF	BS3D GN-PF	BC3D GN-PF	10	0,014	
yellow		B3D GE	BS3D GE	BC3D GE	10	0,014	
blue		B3D BL	BS3D BL	BC3D BL	10	0,014	
white		B3D WS	BS3D WS	BC3D WS	10	0,014	
black		B3D SW	BS3D SW	BC3D SW	10	0,014	
black	→	B3D SW-PF	BS3D SW-PF	BC3D SW-PF	10	0,014	
<b>Push Buttons, Maintained, Actuator Caps markable</b>							
	red		B3DR RT	BS3DR RT	BC3DR RT	10	0,014
	green		B3DR GN	BS3DR GN	BC3DR GN	10	0,014
	yellow		B3DR GE	BS3DR GE	BC3DR GE	10	0,014
blue		B3DR BL	BS3DR BL	BC3DR BL	10	0,014	
white		B3DR WS	BS3DR WS	BC3DR WS	10	0,014	
black		B3DR SW	BS3DR SW	BC3DR SW	10	0,014	
<b>Mushroom Head Ø28mm</b>							
	black		B3P1 RT	BS3P1 RT	BC3P1 RT	10	0,017
	red		B3P1 RT-0	BS3P1 RT-0	BC3P1 RT-0	10	0,017
	green		B3P1 GN	BS3P1 GN	BC3P1 GN	10	0,017
yellow		B3P1 GE	BS3P1 GE	BC3P1 GE	10	0,017	
blue		B3P1 BL	BS3P1 BL	BC3P1 BL	10	0,017	
black		B3P1 SW	BS3P1 SW	BC3P1 SW	10	0,017	
<b>Mushroom Head Ø40mm</b>							
	red	0	B3P14 RT-0	BS3P14 RT-0	BC3P14 RT-0	10	0,020
<b>Mushroom Head Ø40mm</b>							
	red	0	BS3P44T RT	BS3P44T RT	BS3P44T RT	10	0,020
<b>Foot and Palm switch Ø70mm</b>							
	red		BS3P14P RT	BS3P14P RT	BS3P14P RT	1	0,062
grey			BS3P14P GR	BS3P14P GR	BS3P14P GR	1	0,062

# Actuators 22mm IP65, Type12

	Colour	Symbol / high	 Alu	 Black	 Chrome	Pack pcs.	Weight kg/pc.
<b>EMERGENCY STOP Push Buttons, according to EN418, push to trip, pull to release Ø40mm</b>							
	red	26mm	<b>BS3P44 RT</b>	<b>BS3P44 RT</b>	<b>BS3P44 RT</b>	10	0,028
	red	38mm	<b>BS3P45 RT</b>	<b>BS3P45 RT</b>	<b>BS3P45 RT</b>	10	0,028
<b>EMERGENCY STOP Push Buttons, according to EN418, release by key, Ø40mm</b>							
	red	38mm	<b>BS3P44S3</b>	<b>BS3P44S3</b>	<b>BS3P44S3</b>	1	0,050
	<b>Spare Key lock Ronis R455</b>					<b>B4-R455</b>	1
<b>EMERGENCY STOP Push Buttons, release by turning, Ø28mm</b>							
	red	0	<b>B3P3 RT</b>	<b>BS3P3 RT</b>	<b>BC3P3 RT</b>	10	0,017
	red	0	<b>B3P3 RT-0</b>	<b>BS3P3 RT-0</b>	<b>BC3P3 RT-0</b>	10	0,017
<b>EMERGENCY STOP Push Buttons, release by turning, Ø40mm</b>							
	red	0	<b>B3P34 RT-0</b>	<b>BS3P34 RT-0</b>	<b>BC3P34 RT-0</b>	10	0,020
	red illuminated		<b>B3P34L RT</b>	<b>BS3P34L RT</b>	<b>BC3P34L RT</b>	10	0,020
<b>EMERGENCY STOP Push Buttons, release by turning, Ø70mm</b>							
	red		<b>BS3P34P RT</b>	<b>BS3P34P RT</b>	<b>BS3P34P RT</b>	1	0,062




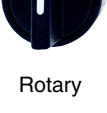








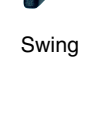











## Accessories for EMERGENCY STOP Push Buttons

		Type	Pack pcs.	Weight kg/pc.
<b>Yellow Disk Ø70mm, Thickness 1mm</b>				
	neutral	<b>B3-7603</b>	1	0,004
	with marking NOT-AUS	<b>B3-7603-1</b>	1	0,004
	with marking EMERGENCY STOP	<b>B3-7603-2</b>	1	0,004
	2-side markings: NOT-AUS / EMERGENCY STOP	<b>B3-7603-12</b>	1	0,004
	2-side markings: ARRET D`URGENCE / NØDSTOP	<b>B3-7603-34</b>	1	0,004
2-side markings: ARRET D`URGENCE / NOODSTOP	<b>B3-7603-35</b>	1	0,004	
<b>Protection cover against unintentional manipulation, Thickness 1mm</b>				
	for Push Buttons Ø28mm and Ø40mm	yellow	<b>B3-SK GE</b>	1 0,04













Actuators 22mm IP65,  Type12

Knob				Pack	Weight
	Alu	Black	Chrome	pcs.	kg/pc.


Rotary Knobs and Swing Knobs, black

	Rotary	maintained 60° 						
		Rotary Swing 	<b>B3KN2</b> <b>B3KRN2</b>	<b>BS3KN2</b> <b>BS3KRN2</b>	<b>BC3KN2</b> <b>BC3KRN2</b>	10	0,020	10
	Rotary	spring return 60° 						
		Rotary Swing 	<b>B3KN8</b> <b>B3KRN8</b>	<b>BS3KN8</b> <b>BS3KRN8</b>	<b>BC3KN8</b> <b>BC3KRN8</b>	10	0,020	10
	Swing	spring return 60° 						
		Rotary Swing 	<b>B3KN1</b> <b>B3KRN1</b>	<b>BS3KN1</b> <b>BS3KRN1</b>	<b>BC3KN1</b> <b>BC3KRN1</b>	10	0,020	10
	Swing	maintained 60° 						
		Rotary Swing 	<b>B3KN3</b> <b>B3KRN3</b>	<b>BS3KN3</b> <b>BS3KRN3</b>	<b>BC3KN3</b> <b>BC3KRN3</b>	10	0,020	10
	Swing							
		Rotary 	<b>B3KN6</b>	<b>BS3KN6</b>	<b>BC3KN6</b>	10	0,020	
	Swing							
		Rotary 	<b>B3KN7</b>	<b>BS3KN7</b>	<b>BC3KN7</b>	10	0,020	
	Swing	maintained 120° 						
		Rotary 	<b>B3KN9</b>	<b>BS3KN9</b>	<b>BC3KN9</b>	10	0,020	
	Swing	maintained 90° acc. to EN81 						
		Rotary 	<b>B3KN10</b>	<b>BS3KN10</b>	<b>BC3KN10</b>	10	0,020	





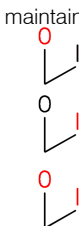


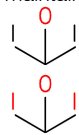


Illuminated Rotary Knobs and Swing Knobs, clear, lamp max. 1,2W, lamps see page 13


	Rotary	maintained 90° 						
		Rotary 	<b>B3KL2</b>	<b>BS3KL2</b>	<b>BC3KL2</b>	10	0,016	
	Swing	spring return 60° 						
		Rotary Swing 	<b>B3KL1</b> <b>B3KRL1</b>	<b>BS3KL1</b> <b>BS3KRL1</b>	<b>BC3KL1</b> <b>BC3KRL1</b>	10	0,016	10
	Swing	maintained 60° 						
		Rotary Swing 	<b>B3KL3</b> <b>B3KRL3</b>	<b>BS3KL3</b> <b>BS3KRL3</b>	<b>BC3KL3</b> <b>BC3KRL3</b>	10	0,016	10
	Swing							
		Rotary 	<b>B3KL6</b>	<b>BS3KL6</b>	<b>BC3KL6</b>	10	0,016	

Toggle

	O - I	<b>B3E</b>	<b>BS3E</b>	<b>BC3E</b>	10	0,017		
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Actuators 22mm IP65,  Type12

					Pack Weight	
key removeable in		Alu	Black	Chrome	pcs.	kg/pc.
<b>Key Operated Rotary Switch with lock Ronis 455</b>						
 B3SAR 0	maintained 60° 	B3SAR 0	BS3SAR 0	BC3SAR 0	1	0,044
		B3SAR 1	BS3SAR 1	BC3SAR 1	1	0,044
		B3SAR 01	BS3SAR 01	BC3SAR 01	1	0,044
 B3SARR 0	spring return 60° 	B3SAT 0	BS3SAT 0	BC3SAT 0	1	0,044
	maintained 60° 	B3SARR 0	BS3SARR 0	BC3SARR 0	1	0,044
		B3SARR 102	BS3SARR 102	BC3SARR 102	1	0,044
		B3SATR 02	BS3SATR 02	BC3SATR 02	1	0,044
	spring return 60° 	B3SATT 0	BS3SATT 0	BC3SATT 0	1	0,044
<b>Spare Key</b> lock Ronis R455				B4-R455	1	0,007

Colour	Symbol				pcs.	kg/pc.
	red	B3DL RT	BS3DL RT	BC3DL RT	10	0,014
	green	B3DL GN	BS3DL GN	BC3DL GN	10	0,014
	yellow	B3DL GE	BS3DL GE	BC3DL GE	10	0,014
	blue	B3DL BL	BS3DL BL	BC3DL BL	10	0,014
	white	B3DL WS	BS3DL WS	BC3DL WS	10	0,014

	red	B3DLR RT	BS3DLR RT	BC3DLR RT	10	0,014
	green	B3DLR GN	BS3DLR GN	BC3DLR GN	10	0,014
	yellow	B3DLR GE	BS3DLR GE	BC3DLR GE	10	0,014
	blue	B3DLR BL	BS3DLR BL	BC3DLR BL	10	0,014
	white	B3DLR WS	BS3DLR WS	BC3DLR WS	10	0,014

	green	B3DT G/R <sup>1)</sup>	BS3DT G/R	BC3DT G/R	10	0,016
	red					
	white	B3DT W/S <sup>1)</sup>	BS3DT W/S	BC3DT W/S	10	0,016
	black					
green	B3DT GI/RO <sup>1)</sup>	BS3DT GI/RO	BC3DT GI/RO	10	0,016	
red						0
white	B3DT WI/SO <sup>1)</sup>	BS3DT WI/SO	BC3DT WI/SO	10	0,016	
black						0

with non-standard marking on request

1) Plastic ring in alu design

# Lens Caps 22mm Typ12

suitable for Alu, Black and Chrome

Colour

Type

Pack Weight  
pcs. kg/pc.

**Lens Caps IP66** with fresnel lens, lamp max. 1,9W, lamps see page 13



red  
green  
yellow

**B3R RT**  
**B3R GN**  
**B3R GE**

10 0,015  
10 0,015  
10 0,015

blue  
clear  
white

**B3R BL**  
**B3R KL**  
**B3R WS**

10 0,015  
10 0,015  
10 0,015

**Lens Caps IP66**, lamp max. 1,9W, lamps see page 13



red  
green  
yellow

**B3RF RT**  
**B3RF GN**  
**B3RF GE**

10 0,013  
10 0,013  
10 0,013

blue  
white

**B3RF BL**  
**B3RF WS**

10 0,013  
10 0,013

suitable for Alu, Black and Chrome

Colour

voltage

power  
VA W

Type

Pack Weight  
pcs. kg/pc.

**Monoblock Multi-LED IP65**, IEC 60947, EN 60947



red  
green  
yellow

20-30V AC/DC  
20-30V AC/DC  
20-30V AC/DC

1,6 1,5  
0,4 0,4  
1,6 1,5

**B3-MB24 RTB**  
**B3-MB24 GNB**  
**B3-MB24 GEB**

10 0,022  
10 0,022  
10 0,022

blue  
white

20-30V AC/DC  
20-30V AC/DC

0,4 0,4  
1,6 1,5

**B3-MB24 BLB**  
**B3-MB24 WSB**

10 0,022  
10 0,022

red  
green  
yellow

110-130V AC 110V DC  
110-130V AC 110V DC  
110-130V AC 110V DC

1,7 1,6  
1,7 1,6  
1,7 1,6

**B3-MB110 RTB**  
**B3-MB110 GNB**  
**B3-MB110 GEB**

10 0,022  
10 0,022  
10 0,022

blue  
white

110-130V AC 110V DC  
110-130V AC 110V DC

1,7 1,6  
1,7 1,6

**B3-MB110 BLB**  
**B3-MB110 WSB**

10 0,022  
10 0,022

red  
green  
yellow

170-250V AC  
170-250V AC  
170-250V AC

4,1 1,0  
4,1 1,0  
4,1 1,0

**B3-MB230 RTB**  
**B3-MB230 GNB**  
**B3-MB230 GEB**

10 0,022  
10 0,022  
10 0,022

blue  
white

170-250V AC  
170-250V AC

4,1 1,0  
4,1 1,0

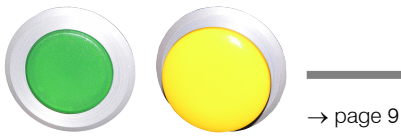
**B3-MB230 BLB**  
**B3-MB230 WSB**

10 0,022  
10 0,022



# Actuators and Lens Caps 30mm IP65

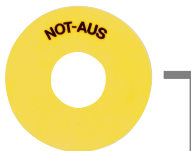
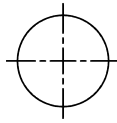
## Push Buttons



## EMERGENCY STOP Buttons



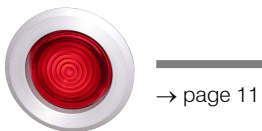
Mounting hole  
Ø 30,5mm



## Illuminated Operators

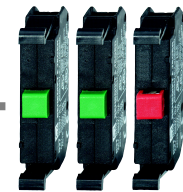


## Lens Caps



## Connectors

## Connectors Lamp Holders



→ page 12

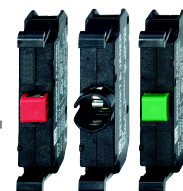


→ page 12

or



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→ page 12

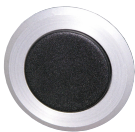








→ page 13

Wrench  
J7049



## Actuators 30mm IP65

	Colour	Symbol	Alu	Black	Pack pcs.	Weight kg/pc.
<b>Push Buttons, Actuator Caps markable</b>						
	red	0	B5D RT	BS5D RT	10	0,029
	red		B5D RT-0	BS5D RT-0	10	0,029
	green		B5D GN	BS5D GN	10	0,029
	green	I	B5D GN-I	BS5D GN-I	10	0,029
	green	II	B5D GN-II	BS5D GN-II	10	0,029
	green	→	B5D GN-PF	BS5D GN-PF	10	0,029
	yellow		B5D GE	BS5D GE	10	0,029
	blue		B5D BL	BS5D BL	10	0,029
white	B5D WS		BS5D WS	10	0,029	
	black	→	B5D SW	BS5D SW	10	0,029
	black		B5D SW-PF	BS5D SW-PF	10	0,029
<b>Push Buttons, Maintained, Actuator Caps markable</b>						
	red		B5DR RT	BS5DR RT	10	0,029
	green		B5DR GN	BS5DR GN	10	0,029
	yellow		B5DR GE	BS5DR GE	10	0,029
	blue		B5DR BL	BS5DR BL	10	0,029
	white		B5DR WS	BS5DR WS	10	0,029
	black		B5DR SW	BS5DR SW	10	0,029
<b>Mushroom Head Ø28mm</b>						
	black		B5P1 RT	BS5P1 RT	10	0,032
	red		B5P1 RT-0	BS5P1 RT-0	10	0,032
	green		B5P1 GN	BS5P1 GN	10	0,032
	yellow		B5P1 GE	BS5P1 GE	10	0,032
	blue		B5P1 BL	BS5P1 BL	10	0,032
	black		B5P1 SW	BS5P1 SW	10	0,032
<b>Mushroom Head Ø40mm</b>						
	red	0	B5P14 RT-0	BS5P14 RT-0	10	0,035
<b>EMERGENCY STOP Push Buttons, release by turning, Ø 28mm</b>						
	red	0	B5P3 RT	BS5P3 RT	10	0,032
	red		B5P3 RT-0	BS5P3 RT-0	10	0,032
<b>EMERGENCY STOP Push Buttons, release by turning, Ø 40mm</b>						
	red	0	B5P34 RT-0	BS5P34 RT-0	10	0,035
<b>Accessories for EMERGENCY STOP Push Buttons</b>						
				Typ	VPE Stk.	Gewicht kg/Stk.
<b>Yellow Disk Ø70mm, Thickness 1mm</b>						
	neutral		B5-7603	1	0,004	
	with marking NOT-AUS		B5-7603-1	1	0,004	
	with marking EMERGENCY STOP		B5-7603-2	1	0,004	

# Actuators 30mm IP65



Knob

Alu

Black

Pack Weight  
pcs. kg/pc.

## Rotary Knobs and Swing Knobs, black



Rotary

maintained 60°



Rotary  
Swing

**B5KN2**  
**B5KRN2**

**BS5KN2**  
**BS5KRN2**

10 0,035  
10 0,035

spring return 60°



Rotary  
Swing

**B5KN8**  
**B5KRN8**

**BS5KN8**  
**BS5KRN8**

10 0,035  
10 0,035

spring return 60°



Rotary  
Swing

**B5KN1**  
**B5KRN1**

**BS5KN1**  
**BS5KRN1**

10 0,035  
10 0,035

maintained 60°



Rotary  
Swing

**B5KN5**  
**B5KRN5**

**BS5KN5**  
**BS5KRN5**

10 0,035  
10 0,035

2 x 60°



Rotary

**B5KN6**

**BS5KN6**

10 0,035

2 x 60°



Rotary

**B5KN7**

**BS5KN7**

10 0,035

maintained 120°



Rotary

**B5KN9**

**BS5KN9**

10 0,035

maintained 90°  
according to EN81



Rotary

**B5KN10**

**BS5KN10**

10 0,035



Swing

## Illuminated Rotary Knobs and Swing Knobs, clear, lamp max. 1,2W, lamps see page 13



Rotary

maintained 90°



Rotary

**B5KL2**

**BS5KL2**

10 0,031

spring return 60°



Rotary  
Swing

**B5KL1**  
**B5KRL1**

**BS5KL1**  
**BS5KRL1**

10 0,031  
10 0,031

maintained 60°



Rotary  
Swing

**B5KL5**  
**B5KRL5**

**BS5KL5**  
**BS5KRL5**

10 0,031  
10 0,031

2 x 60°



Rotary

**B5KL6**

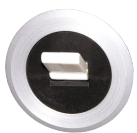
**BS5KL6**

10 0,031



Swing

## Toggle






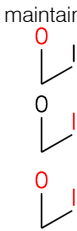





O - I


**B5E**


**BS5E**

10 0,032


## Actuators and Lens Caps 30mm IP65

				Pack pcs.	Weight kg/pc.
key removeable in		Alu	Black		
<b>Key Operated Rotary Switch with lock Ronis 455</b>					
	maintained 60° 	B5SAR 0	BS5SAR 0	1	0,059
		B5SAR 1	BS5SAR 1	1	0,059
		B5SAR 01	BS5SAR 01	1	0,059
	spring return 60° 	B5SAT 0	BS5SAT 0	1	0,059
	maintained 60° 	B5SARR 0	BS5SARR 0	1	0,059
		B5SARR 102	BS5SARR 102	1	0,059
	2 x 60° 	B5SATR 02	BS5SATR 02	1	0,059
	spring return 60° 	B5SATT 0	BS5SATT 0	1	0,059
<b>Spare Key</b> lock Ronis R455			B4-R455	1	0,007


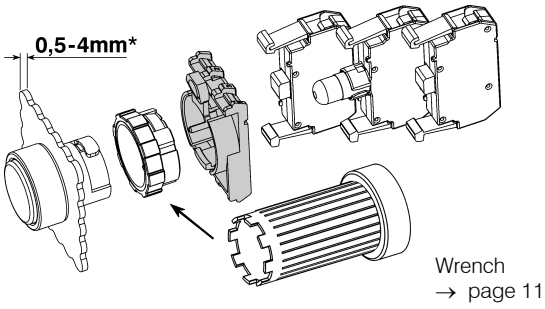

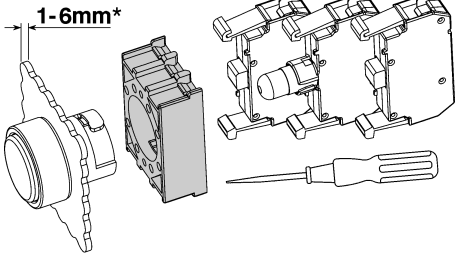
Colour		pcs. kg/pc.			
<b>Illuminated Push Buttons, lamp max. 1,9W, lamps see page 13</b>					
	red	B5DL RT	BS5DL RT	10	0,029
	green	B5DL GN	BS5DL GN	10	0,029
	yellow	B5DL GE	BS5DL GE	10	0,029
	blue	B5DL BL	BS5DL BL	10	0,029
white	B5DL WS	BS5DL WS	10	0,029	

<b>Illuminated Push Buttons, Maintained, lamp max. 1,9W, lamps see page 13</b>					
	red	B5DLR RT	BS5DLR RT	10	0,029
	green	B5DLR GN	BS5DLR GN	10	0,029
	yellow	B5DLR GE	BS5DLR GE	10	0,029
	blue	B5DLR BL	BS5DLR BL	10	0,029
white	B5DLR WS	BS5DLR WS	10	0,029	

<b>Lens Caps with fresnel lens IP66, lamp max. 1,9W, lamps see page 13</b>					
	red	B5R RT	BS5R RT	10	0,029
	green	B5R GN	BS5R GN	10	0,029
	yellow	B5R GE	BS5R GE	10	0,029
	blue	B5R BL	BS5R BL	10	0,029
clear	B5R KL	BS5R KL	10	0,029	
white	B5R WS	BS5R WS	10	0,029	

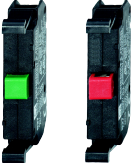







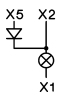
<b>Adapter to convert actuator B3.. in B5..</b>					
		B5	BS5	10	0,011


## Connectors

Specification	Description	Type	Pack pcs.	Weight kg/pc.
 	<b>Connector B3S</b>	<b>B3S</b>	10	0,013
 	<b>Connector B3M</b>	<b>B3M</b>	10	0,013

\*) inclusive Thickness from Label Holder and Yellow Disk




## Contact Blocks and Lamp Holders for Panel Mounting

for voltage	Description	Type	Pack pcs.	Weight kg/pc.
	max. 690V AC 1 NC <sup>1)</sup> 	 <b>B3T01</b> <sup>2)</sup>	10	0,010
	max. 690V AC 1 NO	 <b>B3T10</b> <sup>2)</sup>	10	0,010
	<b>Actuator insert</b> to actuate the center contact block	<b>P642</b>	10	0,001
	max. 440V AC/DC direct connection, for lamps max. 1,9W (take care for active power consumption)	 <b>B3F</b>	10	0,012
	max. 440V AC direct connection, for lamps max. 1,7W (active power consumption)	 <b>B3FT</b>	10	0,020

1) NC contact has a positive opening according to IEC/EN 60947-5-1 

2) Contact blocks with gold contacts ( B3T..G) on request suitable for 17V= /1mA and for difficult ambient conditions.






## Lamps

	Socket BA9s Lamp voltage	Power consumption		Type	Pack pcs.	Weight kg/pc.	
<b>Filament lamps</b>							
	6V	1,2W	for all lens caps	<b>B4-G6</b>	50	0,005	
	12V	1,2W	for all lens caps	<b>B4-G12</b>	50	0,005	
	24V	1,2W	for all lens caps	<b>B4-G24</b>	50	0,005	
	42V	1,2W	for all lens caps	<b>B4-G42</b>	50	0,005	
	48V	1,2W	for all lens caps	<b>B4-G48</b>	50	0,005	
	60V	1,2W	for all lens caps	<b>B4-G60</b>	50	0,005	
	110/120V <sup>1)</sup>	1,5/1,8W	for all lens caps	<b>B4-G130</b>	50	0,005	
	<b>LED lamps<sup>2)</sup> 10 years lifetime</b>						
		20-30V AC/DC	17mA / 0,4W	for red lens caps	<b>B3-L24 RTB</b>	10	0,005
		20-30V AC/DC	17mA / 0,4W	for green lens caps	<b>B3-L24 GNB</b>	10	0,005
20-30V AC/DC		17mA / 0,4W	for yellow lens caps	<b>B3-L24 GEB</b>	10	0,005	
20-30V AC/DC		17mA / 0,4W	for blue lens caps	<b>B3-L24 BLB</b>	10	0,005	
20-30V AC/DC		17mA / 0,4W	for white lens caps	<b>B3-L24 WSB</b>	10	0,005	
90-120V AC/DC		7mA / 0,8W	for red lens caps	<b>B3-L110 RTB</b>	10	0,005	
90-120V AC/DC		7mA / 0,8W	for green lens caps	<b>B3-L110 GNB</b>	10	0,005	
90-120V AC/DC		7mA / 0,8W	for yellow lens caps	<b>B3-L110 GEB</b>	10	0,005	
90-120V AC/DC		7mA / 0,8W	for blue lens caps	<b>B3-L110 BLB</b>	10	0,005	
90-120V AC/DC		7mA / 0,8W	for white lens caps	<b>B3-L110 WSB</b>	10	0,005	
200-250V AC/DC		4mA / 0,9W	for red lens caps	<b>B3-L230 RTB</b>	10	0,005	
200-250V AC/DC		4mA / 0,9W	for green lens caps	<b>B3-L230 GNB</b>	10	0,005	
200-250V AC/DC		4mA / 0,9W	for yellow lens caps	<b>B3-L230 GEB</b>	10	0,005	
200-250V AC/DC		4mA / 0,9W	for blue lens caps	<b>B3-L230 BLB</b>	10	0,005	
200-250V AC/DC		4mA / 0,9W	for white lens caps	<b>B3-L230 WSB</b>	10	0,005	
<b>Glow-discharge lamps</b>							
		220-250V AC	0,3W	for clear, red, yellow lens caps	<b>B4-GL230K</b>	100	0,005
		220-250V AC	0,3W	for green, blue lens caps	<b>B4-GL230G</b>	100	0,005

1) Voltage marking 130V / 2W max. rated voltage 120V / 1,8W

2) suitable for B3FT lamp test lamp holders

## Accessories

			Type	VPE Stk.	Gewicht kg/Stk.
	<b>Wrench</b>	for mounting of actuators and lens caps B(S)3..	<b>J7049</b>	1	0,018
	<b>Bezeichnungsschild</b>	for marking of contact blocks B3T. and lamp holders B3F	<b>P672-1</b>	10	0,001
	<b>Lamp Installer</b>	used to install or replace lamps BA9s	<b>B4-7408</b>	1	0,010
	<b>Spare Key</b>	for lockable push buttons	<b>B4-R455</b> <b>B4-R786</b>	1	0,007
	<b>Hole Plug</b>	black, for fixing holes Ø22,5mm	<b>B4-10022</b>	10	0,007
	<b>Sealing Cover</b>	protection against coarse contamination petrol-resistant ambient temperature 0° - +50° C ambient temperature -20° - +50° C	<b>P279-1</b> <b>P279-3</b>	1 1	0,003 0,003
	<b>Protection cover</b>	against unintentional manipulation Thickness 1mm yellow Thickness 1mm grey	<b>B3-SK GE</b> <b>B3-SK GR</b>	1 1	0,04 0,04
	<b>Protection ring with thread</b>	against unintentional manipulation has to be mounted instead of the existing ring	black chrome alu	1 1 1	0,012 0,012 0,012

## Label Holder and Legend Plate

	Type	Pack pcs.	Weight kg/pc.
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### Label Holder for Legend Plates BK4 with 1 or 2 lines, Thickness 0,8mm



**Label holder** for legend plate BK4, black

**P751**

100 0,002

**Label holder** for legend plate BK4, yellow

**P751-3**

10 0,002

marking	Type	marking	Type	Pack pcs.	Weight kg/pc.
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### Legend plate alu, for label holder P751

without marking

	<b>BK4-9736</b>			100	0,0002
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I	<b>BK4-I</b>	II	<b>BK4-II</b>	10	0,0002
III	<b>BK4-III</b>	IV	<b>BK4-IV</b>	10	0,0002

V	<b>BK4-V</b>			10	0,0002
→	<b>BK4---&gt;</b>	←	<b>BK4-&lt;--</b>	10	0,0002

0 I	<b>BK4-0-I</b>	H 0 A	<b>BK4-H 0 A</b>	10	0,0002
0 I	<b>BK4-0__I</b>	1 0 2	<b>BK4-1 0 2</b>	10	0,0002

START ON	<b>BK4-START</b> <b>BK4-ON</b>	STOP OFF	<b>BK4-STOP</b> <b>BK4-OFF</b>	10	0,0002
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RUN AUTO	<b>BK4-RUN</b> <b>BK4-AUTO</b>	FAULT HAND	<b>BK4-FAULT</b> <b>BK4-HAND</b>	10	0,0002
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UP OPEN	<b>BK4-UP</b> <b>BK4-OPEN</b>	DOWN CLOSE	<b>BK4-DOWN</b> <b>BK4-CLOSE</b>	10	0,0002
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FORWARD REVERSE	<b>BK4-FORWARD</b> <b>BK4-REVERSE</b>	INCH RESET	<b>BK4-INCH</b> <b>BK4-RESET</b>	10	0,0002
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TEST	<b>BK4-TEST</b>	OFF ON	<b>BK4-OFF ON</b>	10	0,0002
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### Legend plate with non-standard marking, (e. g.: BK4-MOTOR-START)

Text 1 line, max. 11 letters, letter height 3mm	<b>BK4-...</b>	1	0,0002
Text 2 lines, max. 2 x 11 letters, letter height 3mm	<b>BK4-...-...</b>	1	0,0002

### Legend plate yellow, for label holder P751-3

Legend plate yellow without marking	<b>BK4-10827</b>	10	0,0002
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NOT-AUS

Legend plate yellow with marking NOT-AUS	<b>BK4-10827-1</b>	10	0,0002
Legend plate yellow with marking EMERGENCY STOP	<b>BK4-10827-2</b>	10	0,0002
<b>Legend plate</b> yellow with marking ARRET D`URGENCE	<b>BK4-10827-3</b>	10	0,0002

### Label Holder for Legend Plates with 3 or 4 lines, Thickness 0,8mm



**Label holder** for legend plate **BK8**, black

**P761**

10 0,002

**Label holder** for legend plate **BK8**, yellow

**P761-3**

10 0,002

**Label holder** for **BK8**, for double push buttons only

**P761-D**

10 0,002


### Legend plate BK8 with for label holder P761 (with marking e. g.: BK8-WATER-PUMP-START)

Legend plate without marking	<b>BK8-9736</b>	10	0,0004
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













Text 3 lines, max. 3 x 11 letters, letter height 3mm	<b>BK8-...../...</b>	10	0,0004
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Text 4 lines, max. 4 x 11 letters, letter height 3mm	<b>BK8-...../...../...../.....</b>	10	0,0004
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## Actuator Caps

marking	Type -suffix for marking	marking	Type -suffix for marking.	Pack Weight pcs. kg/pc.
		NOT AUS	DK(L) ..-NOT-AUS	10 0,001
	START	STOP	DK(L) ..-STOP	10 0,001
	EIN	AUS	DK(L) ..-AUS	10 0,001
		STÖRUNG	DK(L) ..-STÖRUNG	10 0,001
	BETRIEB	HALT	DK(L) ..-HALT	10 0,001
	ANLAUF	ZURÜCK	DK(L) ..-ZURÜCK	10 0,001
	VOR			
		SENKEN	DK(L) ..-SENKEN	10 0,001
	HEBEN	RECHTS	DK(L) ..-RECHTS	10 0,001
	LINKS	WENIGER	DK(L) ..-WENIGER	10 0,001
	MEHR			
		LANGSAM	DK(L) ..-LANGSAM	10 0,001
	SCHNELL	DUNKLER	DK(L) ..-DUNKLER	10 0,001
	HELLER	ZU	DK(L) ..-ZU	10 0,001
	AUF			
	LAUF	DK(L) ..-LAUF	10 0,001	
AB	TIPPEN	DK(L) ..-TIPPEN	10 0,001	
EILGANG				

### Actuator Caps with symbols according to DIN 30600, the Type must be completed with the code for colours

	DK(L) ..-100		DK(L) ..-101	10 0,001
	DK(L) ..-102		DK(L) ..-103	10 0,001
	DK(L) ..-200		DK(L) ..-201	10 0,001
	DK(L) ..-202		DK(L) ..-203	10 0,001
	DK(L) ..-204		DK(L) ..-205	10 0,001
	DK(L) ..-300		DK(L) ..-301	10 0,001
	DK(L) ..-302		DK(L) ..-303	10 0,001
	DK(L) ..-304		DK(L) ..-305	10 0,001
	DK(L) ..-306		DK(L) ..-307	10 0,001
	DK(L) ..-400		DK(L) ..-401	10 0,001
	DK(L) ..-402		DK(L) ..-403	10 0,001
	DK(L) ..-404		DK(L) ..-405	10 0,001
	DK(L) ..-406		DK(L) ..-407	10 0,001
	DK(L) ..-408		DK(L) ..-409	10 0,001
	DK(L) ..-410		DK(L) ..-411	10 0,001
	DK(L) ..-412		DK(L) ..-413	10 0,001

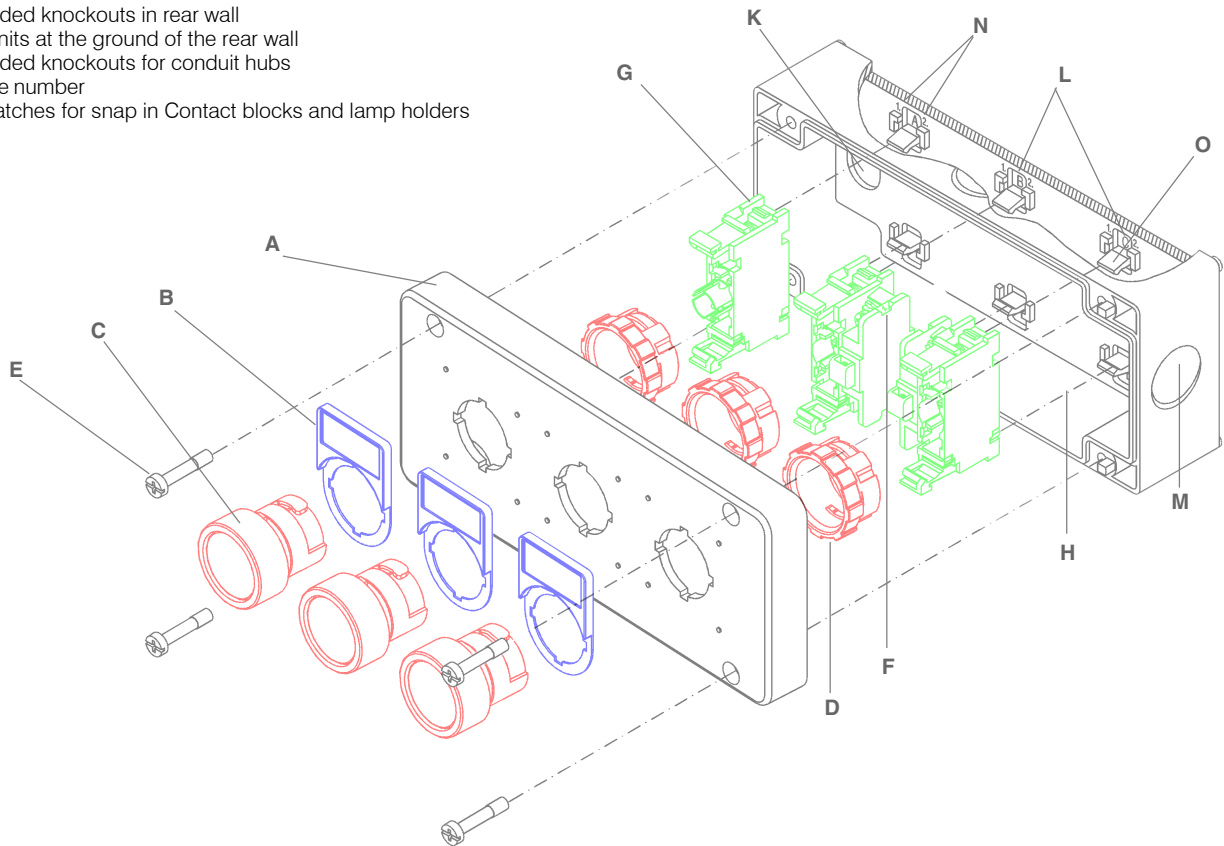
### Code for colours

Colour	for buttons	for illuminated buttons	Colour	for buttons	for illuminated buttons
red	DK RT-..	DKL RT-..	blue	DK BL-..	DKL BL-..
green	DK GN-..	DKL GN-..	white	DK WS-..	DKL WS-..
yellow	DK GE-..	DKL GE-..	black	DK SW-..	-



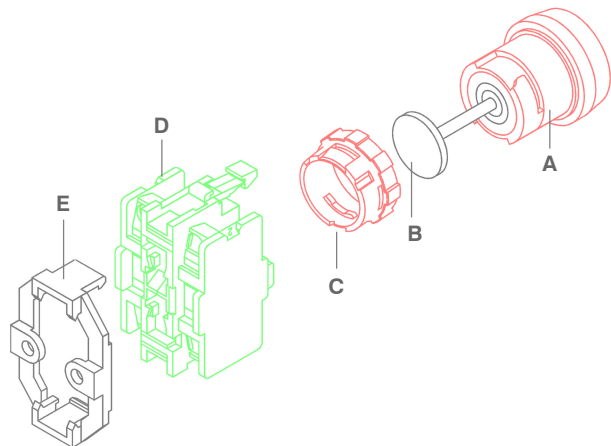
## Assembled Stations BG.. IP65 Type12


- A Cover
- B Legend plates with label holder
- C Actuators or Lens caps
- D Ring and nut (included with actuator or lens cap)
- E Captive screws (after screw in), at delivery loose
- F Function number
- G Contact blocks and lamp holders
- H Rear shroud
- K Pre-moulded knockouts in rear wall
- L Sign of units at the ground of the rear wall
- M Pre-moulded knockouts for conduit hubs
- N Sequence number
- O Spring-catches for snap in Contact blocks and lamp holders



### Buttons for base mounting

- A Actuator
- B Extension B4V...
- C Ring and nut (included with actuator or lens cap)
- D Contact block B4..
- E Base B4U for base and DIN-rail mounting of contact blocks














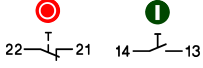

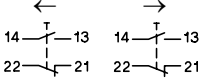

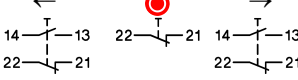

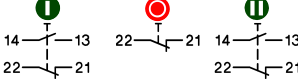

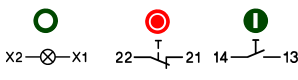










		Type	Pack pcs.	Weight kg/pc.
	<b>Mounting Plate</b> for base and DIN-rail mounting of contact blocks and lamp holders <b>B4.U...</b>	<b>B4U</b>	10	0,010
	<b>Ring and Nut</b> for mounting former actuators and lens caps <b>B4...</b>	<b>B3UP</b>	10	0,004

Actuators B3 see page 3 - 6, Actuators B5 see page 9 - 11




Contact blocks see page 18

# Assembled Stations IP65 Typ12

For conduit entries are in top and both small sides only one knockouts for conduit hubs Ø20,5mm, for M20 or PG13,5 provided.

		Diagram	Type	Pack pcs.	Weight kg/pc.
	<b>ON push button green</b>		<b>BG10 GN</b>	1	0,135
	<b>OFF push button red</b>		<b>BG10 RT</b>	1	0,135
	<b>Pilot light green</b>	$x2 \text{---} \otimes \text{---} x1$	<b>BG01 GN</b>	1	0,135
	<b>Pilot light red</b>		<b>BG01 RT</b>	1	0,135
	<b>Key operated 0 - I</b> lock Ronis R455 60° maintained		<b>BG10SAR 0</b>	1	0,165
	<b>Key operated I - 0 - II</b> lock Ronis R455 60° maintained		<b>BG10SARR 0</b>	1	0,172
	<b>2 push buttons 0 - I</b>		<b>BG20</b>	1	0,200
	<b>2 push buttons ← →</b>		<b>BG20PF</b>	1	0,200
	<b>3 push buttons ← 0 →</b>		<b>BG30PF</b>	1	0,283
	<b>3 push buttons I - 0 - II</b>		<b>BG30</b>	1	0,283
	<b>2 push buttons 0 - I with pilot light green</b>		<b>BG21 GN</b>	1	0,270
	<b>Foot and palm button</b> mushroom Ø70mm		<b>BG10P14P GR</b>	1	0,187
<b>Plastic enclosed EMERGENCY STOP buttons</b>					
	<b>EMERGENCY STOP button</b> head Ø40mm unlock by turning		<b>BG10P34-11</b>	1	0,145
	<b>EMERGENCY STOP mushroom button</b> Ø40mm according to EN418 unlock by pull		<b>BG10P44-11</b>	1	0,145
	<b>EMERGENCY STOP key operated button</b> Ø40mm according to EN418 unlock by key		<b>BG10P44S3-11</b>	1	0,178
	<b>EMERGENCY STOP mushroom button</b> Ø70mm unlock by turning		<b>BG10P34P-11</b>	1	0,187

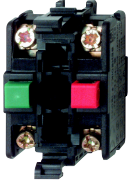

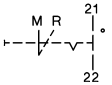

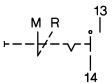

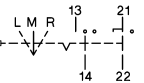

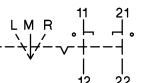

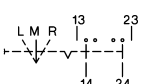
## Enclosures BG.. IP65, cUL<sup>us</sup> Type12

	Number of units	Description	Type	Pack pcs.	Weight kg/pc.
	1	3 knockouts Ø20,5mm (M20 or PG13,5)	BG1	1	0,108
	2	3 knockouts Ø20,5mm (M20 or PG13,5)	BG2	1	0,145
	3	3 knockouts Ø20,5mm (M20 or PG13,5)	BG3	1	0,188



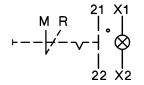

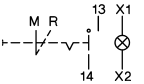

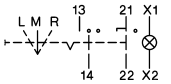

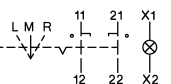

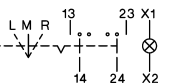
## Buttons and Lens Caps B3.. see page 3 to 6

Contacts	Lamp voltage	Wiring diagram	actuators with 2 or 3 switch positions	Type	Pack pcs.	Weight kg/pc.
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### Contact blocks for enclosures BG..

	1NC <sup>1)</sup> ⊖				B4TU01	10 0,015
	1NO				B4TU10	10 0,015
	1NO+1NC <sup>1)</sup> ⊖				B4TU11	10 0,022
	2NC <sup>1)</sup> ⊖				B4TU02	10 0,022
	2NO				B4TU20	10 0,022

### Contact blocks with lamp holder, socket BA9s, for enclosures BG..



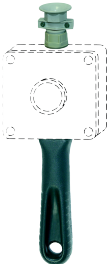
	1NC <sup>1)</sup> ⊖	max. 440V AC/DC			B4TU01F	10 0,020
	1NO	max. 440V AC/DC			B4TU10F	10 0,020
	1NO+1NC <sup>1)</sup> ⊖	max. 440V AC/DC			B4TU11F	10 0,027
	2NC <sup>1)</sup> ⊖	max. 440V AC/DC			B4TU02F	10 0,027
	2NO	max. 440V AC/DC			B4TU20F	10 0,027

### Lamp holder, socket BA9s

max. 440V AC/DC	direct connection, for lamps max. 1,9W (take care for active power consumption)		B4FU	10 0,013
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1) NC contact has a positive opening according to IEC/EN 60947-5-1 ⊖


## Accessories for Plastic enclosed buttons

			Type	Pack pcs.	Weight kg/pc.
	<b>Wrench</b>	for mounting of actuators and lens caps B(S)3..	<b>J7049</b>	1	0,018
	<b>Couple Part</b>	to couple enclosures BKLG or assembled stations BG..	<b>B4-8852</b>	1	0,018
	<b>Suspension Eye</b>	for hanging stations	<b>B4-9929</b>	1	0,188
	<b>Handle and Cable Inlet</b>	to change enclosures BG.. or assembled stations BG.. into a hanging station	<b>B4-9149</b>	1	0,064


## Push Buttons for Enclosures 22mm IP65

Specification	Colour	Symbol	Length mm	Type	Pack pcs.	Weight kg/pc.
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### Push buttons grey RAL7035


	<b>Reset push button</b>	blue blue	R R	8-22 22-60	<b>B2GRB-22</b> <b>B2GRB-60</b>	10 10	0,005 0,016
	<b>Reset push button with stop function</b>	red red	0/R 0/R	8-22 22-60	<b>B2GR-22</b> <b>B2GR-60</b>	10 10	0,005 0,016
	<b>Start push button</b>	green green	I I	8-22 22-60	<b>B2GI-22</b> <b>B2GI-60</b>	10 10	0,005 0,016
	<b>Stop push button</b>	red red	0 0	8-22 22-60	<b>B2G0-22</b> <b>B2G0-60</b>	10 10	0,005 0,016
	<b>Mushroom head lockable Ø28mm</b>	red red	0 0	8-22 22-60	<b>B2GP-22</b> <b>B2GP-60</b>	10 10	0,005 0,016

### Push buttons with metal ring and self adjusting extension pin

	<b>Reset push button</b>	blue blue	R R	19,5-38,5 38,5-60	<b>B3GRB-31,5</b> <b>B3GRB-60</b>	10 10	0,023 0,026
	<b>Reset push button with stop function</b>	red red	0/R 0/R	19,5-38,5 38,5-60	<b>B3GR-31,5</b> <b>B3GR-60</b>	10 10	0,023 0,026
	<b>Start push button</b>	green green	I I	19,5-38,5 38,5-60	<b>B3GI-31,5</b> <b>B3GI-60</b>	10 10	0,023 0,026
	<b>Stop push button</b>	red red	0 0	19,5-38,5 38,5-60	<b>B3G0-31,5</b> <b>B3G0-60</b>	10 10	0,023 0,026
	<b>Mushroom head lockable Ø28mm</b>	red red		19,5-38,5 38,5-60	<b>B3GP-31,5</b> <b>B3GP-60</b>	10 10	0,023 0,026

Specification	Diameter Ø mm	Length mm	Type	Pack pcs.	Weight kg/pc.
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### Extensions for push buttons

	self adjusting pin, for B(S, C)3D.. and B(S, C)3P..	15 18,5	19,5 - 38,5 38,5 - 60	<b>B4V31,5</b> <b>B4V60</b>	10 10	0,001 0,004
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# Technical Data

## Terminal markings for control units according to DIN EN 50013

Distinc. number	Contact elements	Distinc. number	Contact elements	Distinc. number	Contact elements	Distinc. number	Contact elements	Distinc. number	Contact elements	Colour code
10	13 14							01	21 22	
20	13 23 14 24	11	13 21 14 22					02	11 21 12 22	
30	13 23 33 14 24 34	21	13 21 33 14 22 34	12	13 21 31 14 22 32			03	12 22 32 12 22 32	
40	13 23 33 43 14 24 34 44	31	13 21 33 43 14 22 34 44	22	13 21 31 43 14 22 32 44	13	13 21 31 41 14 22 32 42	04	11 21 31 41 12 22 32 42	

## Data according to IEC 947-5-1, VDE 0660, EN 60947-5-1

Type		B3T	B4T
<b>Rated insulation voltage <math>U_i</math></b>	V AC	690 <sup>1)</sup>	500
<b>Utilization category AC12</b> Control of resistive loads and solid stateloads with isolation by opto couplers			
<b>Rated current <math>I_n</math></b>	220-240V A 380-415V A 500V A 690V A	10 10 10 10	10 10 10 -
<b>Utilization category AC15</b> Control of electromagnetic load (>72VA)			
<b>Rated current <math>I_n</math></b>	220-240V A 380-415V A 500V A 690V A	6 5 3 2	6 5 3 -
<b>Utilization category DC12</b> L/R = 1ms Control of resistive loads and solid stateloads with isolation by opto couplers			
<b>Rated current <math>I_n</math></b>	24V A 60V A 110V A 220V A	10 6 2,5 0,8	10 6 2,5 0,8
<b>Utilization category DC14</b> L/R = 15ms Control of electromagnetic loads having economy resistors in circuit			
<b>Rated current <math>I_n</math></b>	24V A 60V A 110V A 220V A	8 1 2 0,5	8 1 2 0,5
<b>Utilization category DC13</b> L/R = 300ms Control of electromagnets			
<b>Rated current <math>I_n</math></b>	24V A 60V A 110V A 220V A	2 5 0,5 0,2	2 5 0,5 0,2
<b>Making capacity</b>	A	60	60
<b>Breaking capacity</b> $\cos\phi = 0,7-1$	40-60Hz A	50	50
<b>Mechanical life</b>	millions of operations	10	10
<b>Contact life (AC15)</b>			
100VA	millions of operations	10	10
300VA	millions of operations	3	3
800VA	millions of operations	1	1
1200VA	millions of operations	0,5	0,5
<b>Maximum frequency of operations</b>	ops. per hour	600	600
<b>Short circuit protection</b>	slow, gL (gG) A	25	25
<b>Type</b>		<b>B3F</b>	<b>B4F</b>
<b>Rated insulation voltage <math>U_i</math></b>	V AC	440 <sup>2)</sup>	440 <sup>2)</sup>
<b>Lamp base</b>		BA9s	

Type		B3., B4.
<b>Protection degree (according to IEC 947-1)</b> in assembled state, from the front from rear		IP65 IP00
<b>Ambient temperature</b>	°C	-20 to +50
<b>Cable cross-section</b>		
	solid, mm <sup>2</sup> flexible, mm <sup>2</sup> flexible with multicore cable end, mm <sup>2</sup> number	0,5 - 2,5 0,5 - 2,5 0,5 - 1,5 2
<b>Cables per clamp</b>		
<b>Mounting hole (according to IEC 947-1)</b>	Ø mm Ø mm	22,5 30,5
<b>Mounting position</b>		optional
<b>Terminal screws</b>		Pozidriv No. 2 screws M3,5

## Data according to cULus

Type	B3.	B4.
<b>Contact Block</b> for NO and NC	600 V AC max.	600 V AC max.
General use	10A	10A
Heavy pilot duty	A600	A600
<b>Lamp Holder</b> with socket BA9s	240V 2,6W max.	240V 2,6W max.
Wire (Contact and lamp holder)	14 - 18AWG	14 - 18AWG
Torque	9 lb/in.	9 lb/in.

## Approvals

Country	USA, Canada UL	Europe	Register of Shipping	CENELEC CB- Certificates
Type			Great Britain LRS	
B3T..	o	o	-	o
B3F..	o	o	-	o
B4TU..	o	o	o	o
B4T..UF	o	o	o	o
B4FU..	o	o	o	o
B3-MB..	-	o	-	-

o In standard version approved

- Not provided for test till now

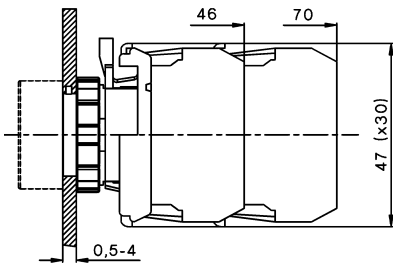
1) suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry):  $U_{imp} = 6kV$ . Data for other conditions on request

2) suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry):  $U_{imp} = 4kV$

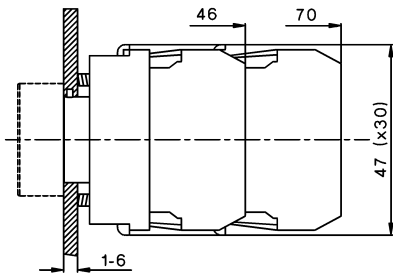
# Dimensions

## Actuators and Lens Caps 22mm

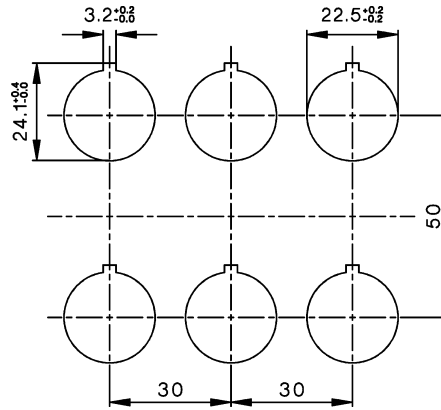
Panel mounting B3S



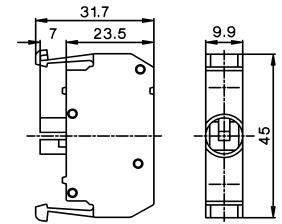
Panel mounting B3M



Mounting holes



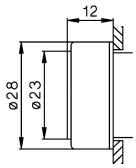
Contact blocks and Lamp Holders **B3...**



Dimensions of minimum space requirements according to IEC. Take to consideration the field of traverse of swing knobs (27mm) and the diameter of mushroom heads.

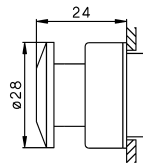
## Actuators and Lens caps

Flush Head  
Illuminated Flush Head



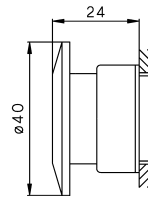
**B3D(R), B3DL(R)**  
**BS3D(R), BS3DL(R)**  
**BC3D(R), BC3DL(R)**

Mushroom Head Ø28mm  
Emergency Stop Ø28mm



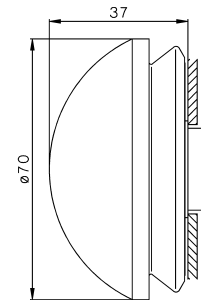
**B3P1 bis B3P3**  
**BS3P1 bis BS3P3**  
**BC3P1 bis BC3P3**

Mushroom Head Ø40mm  
Emergency Stop Ø40mm



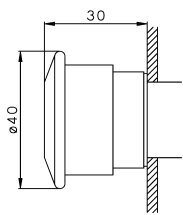
**B3P14, B3P34**  
**BS3P14, BS3P34**  
**BC3P14, BC3P34**

Mushroom Head Ø70mm  
Emergency Stop Ø70mm



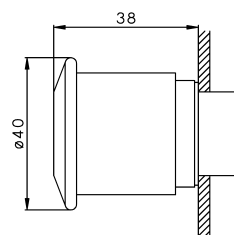
**BS3P14P**  
**BS3P34P**

Push-and pull button Ø40mm



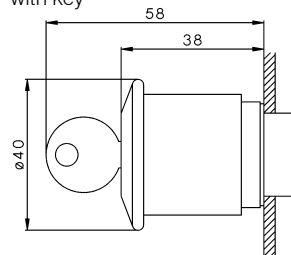
**BS3P44**

Push-and pull button Ø40mm



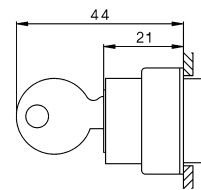
**BS3P45**

Push-and pull button Ø40mm  
with key



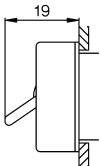
**BS3P44S3**

Lockable Push button



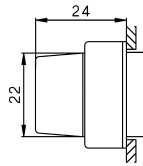
**B3SAR., B3SAT.**  
**BS3SAR., BS3SAT.**  
**BC3SAR., BC3SAT.**

Toggle



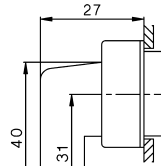
**B3E**  
**BS3E**  
**BC3E**

Rotary Knob



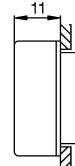
**B3KN, B3KL**  
**BS3KN, BS3KL**  
**BC3KN, BC3KL**

Swing Knob



**B3KRL, B3KRN**  
**BS3KRL, BS3KRN**  
**BC3KRL, BC3KRN**

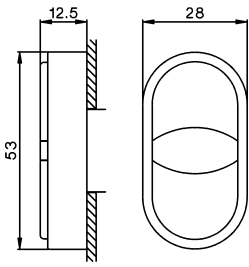
Lens Cap



**B3R(F)**

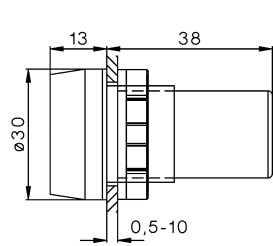
# Dimensions

Double push button



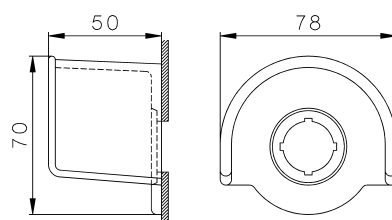
**B3DT**

Monoblock Multi-LED



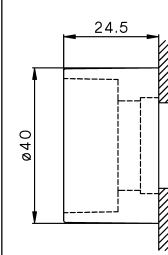
**B3-MB...**

Protection cover



**B3-SK ..**

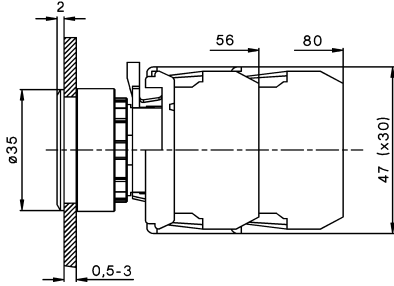
Protection ring w. thread



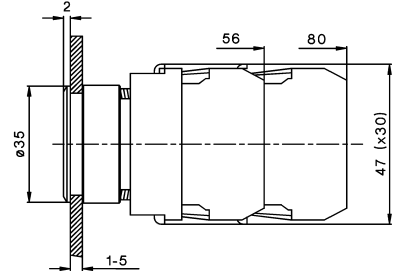
**P921-.**

## Actuators and Lens Caps 30mm

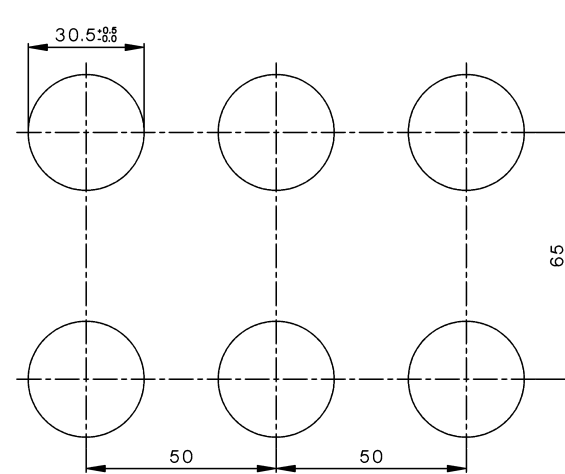
Panel mounting B3S



Panel mounting B3M

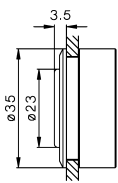


Mounting holes



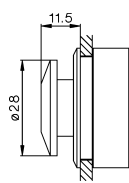
## Actuators and Lens caps

Flush Head  
Illuminated Flush Head



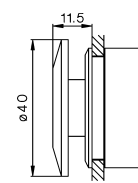
**B5D(R), B5DL(R)**  
**BS5D(R), BS5DL(R)**

Mushroom Head Ø28mm  
Emergency Stop Ø28mm



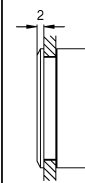
**B5P1 to B5P3**  
**BS5P1 to BS5P3**

Mushroom Head Ø40mm  
Emergency Stop Ø40mm



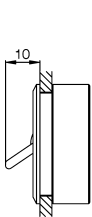
**B5P14, B5P34**  
**BS5P14, BS5P34**

Lens Cap



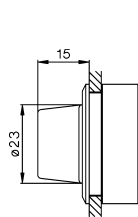
**B5RF**

Toggle



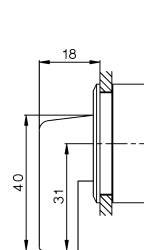
**B5E**  
**BS5E**

Rotary Knob



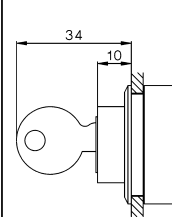
**B5KN, B5KL**  
**BS5KN, BS5KL**

Swing Knob



**B5KRL, B5KRN**  
**BS5KRL, BS5KRN**

Lockable Push button

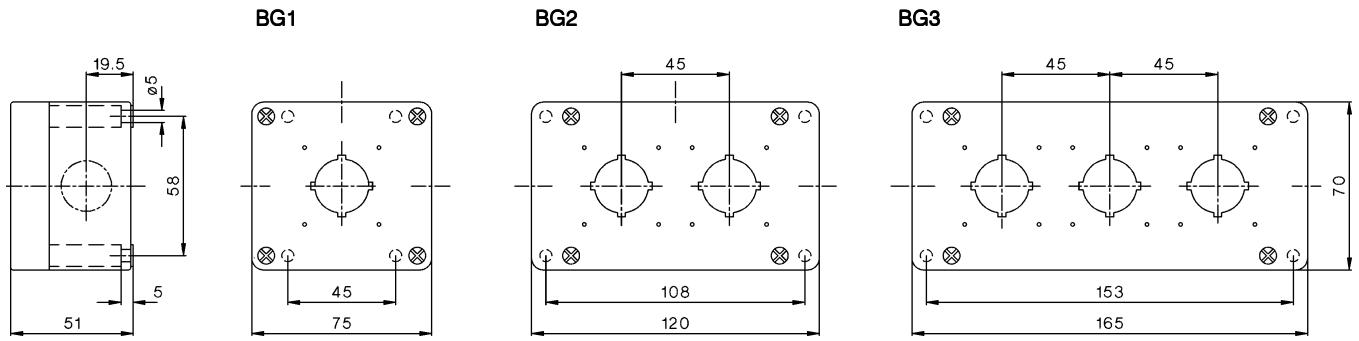


**B5SAR., B5SAT.**  
**BS5SAR., BS5SAT.**

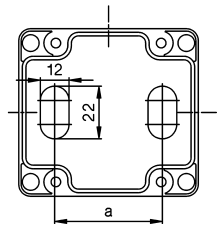
# Dimensions

## Enclosures for Custom Built Stations

Three conduit entries (knockouts), each on top, left and right side, Ø20,5mm (M20 or PG13,5)

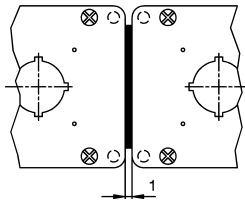


### Conduit entries in the bottom (knockouts)

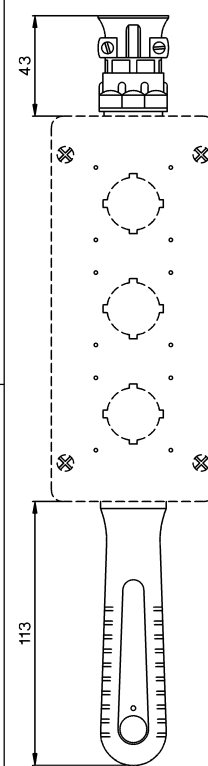


Number of units	Dimension a (mm)
1	45
2	90
3	135

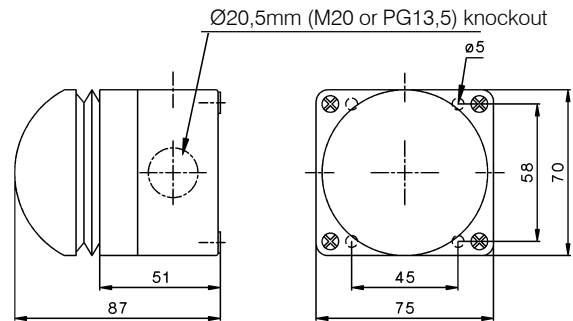
### Coupled Enclosures B4-8852



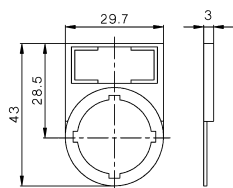
### Hanging Station B4-9149



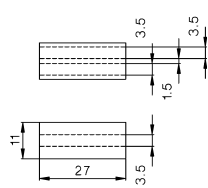
### EMERGENCY STOP Push Button Ø70 mm, Foot switch BG10P34P, BG10P14P



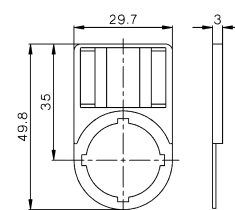
### Label holder P751



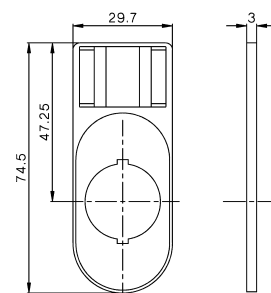
### Legend plate BK4-...



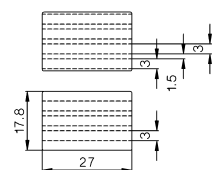
### Label holder P761



### Label holder P761-D



### Legend plate BK8-...





# Dimensions

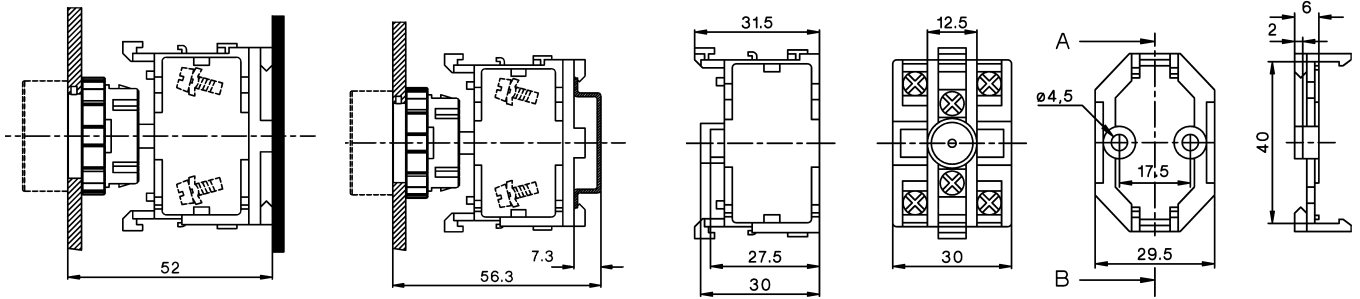
## Actuators 22mm

Base mounting

DIN-rail mounting

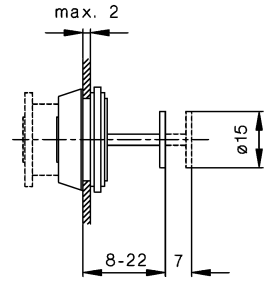
Contact blocks and  
Lamp Holders B4.U...

Base B4U



## Push buttons for enclosures

### B2G..-22



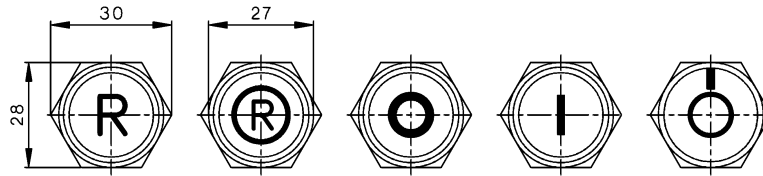
B2GRB

B2GR

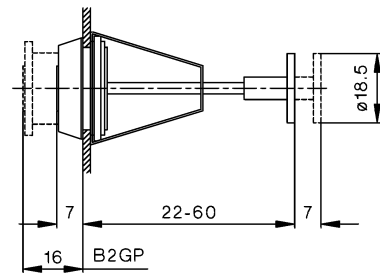
B2G0

B2GI

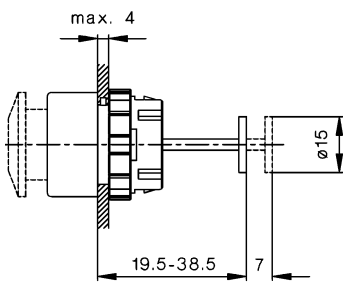
B2GP



### B2G..-60



### B3G..-31,5



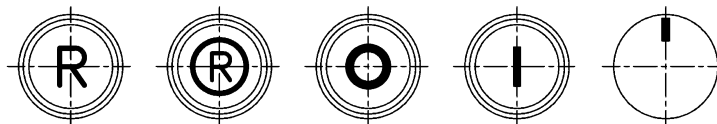
B3GRB

B3GR

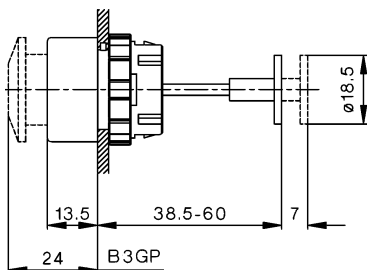
B3G0

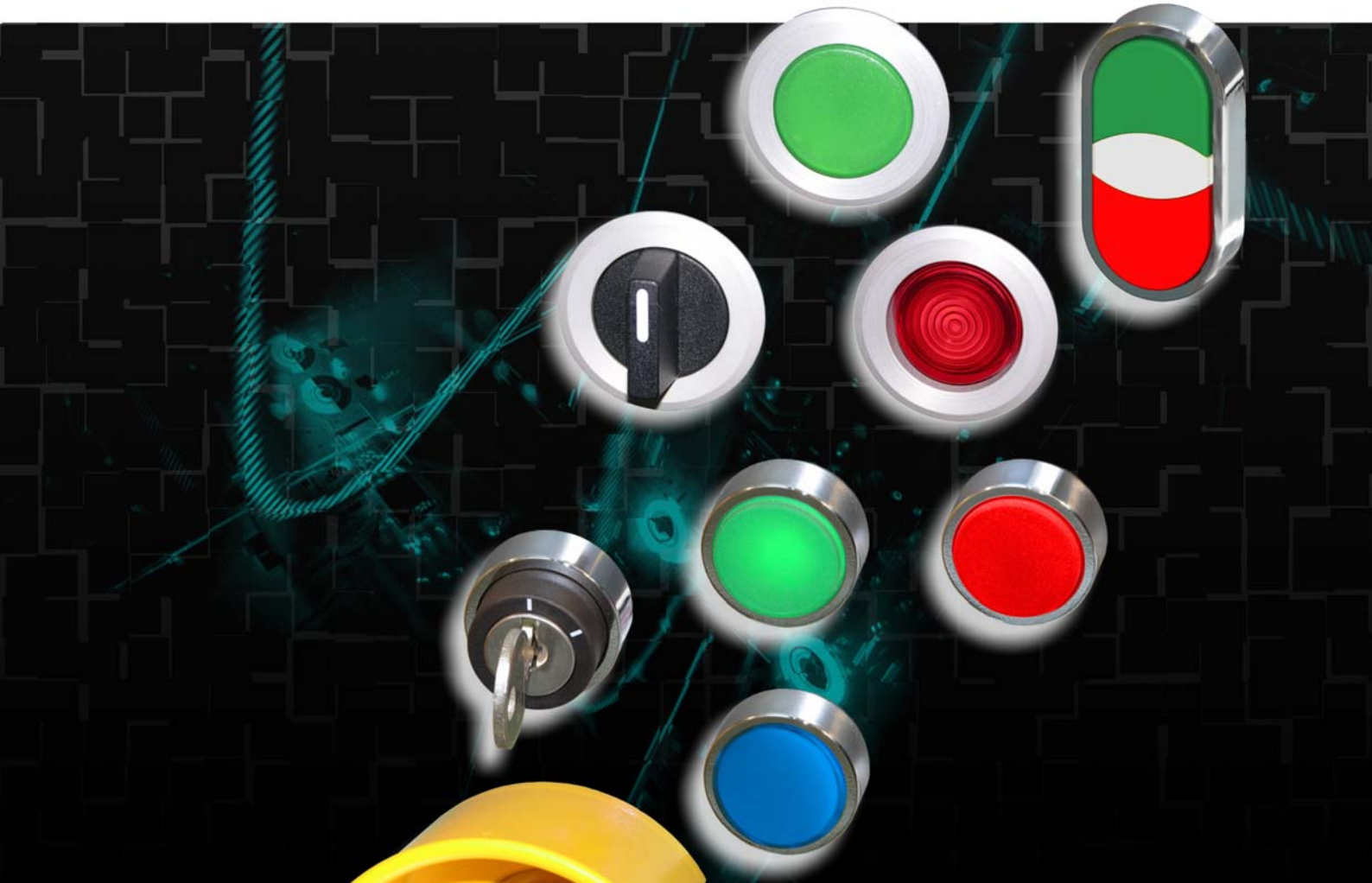
B3GI

B3GP



### B3G..-60





IMO Precision Controls Ltd  
1000 North Circular Road  
Staples Corner  
London NW2 7JP

Tel: +44 (0)20 8452 6444  
Fax: +44 (0)20 8450 2274

Web: [www.imopc.com](http://www.imopc.com)  
Email: [imo@imopc.com](mailto:imo@imopc.com)