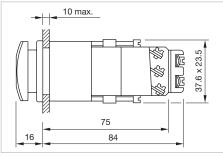
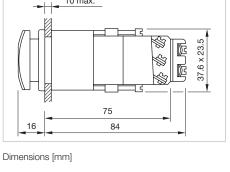
02 Flush design

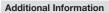
Mushroom-head pushbutton, IP 40



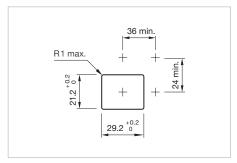
Product can differ from the current configuration.



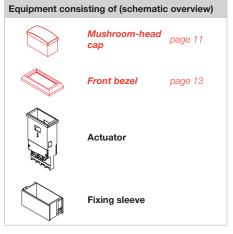




- For front dimension 24 x 36 mm
- Use only flush front bezel



Mounting cut-outs[mm]

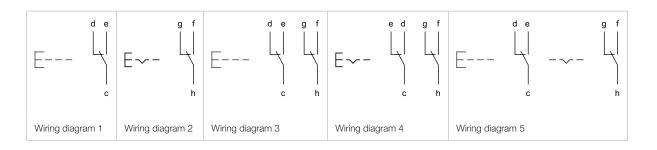


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Contacts Mushroom-	Switching action -head pushbutton actuator	Terminal	Part No.	Wiring	Weight
1 C	В	Screw	02-611.011	1	0.045 kg
	С	Screw	02-613.011	2	0.045 kg
2 C	В	Screw	02-612.011	3	0.050 kg
	С	Screw	02-614.011	4	0.050 kg
	B - C	Screw	02-615.011	5	0.050 kg

Contacts: C = Changeover Switching action: B = Momentary, C = Maintain



Front

Lens

Additional Information

Material plastic

Product attribute	Dimension	Lens	Part No.	Weight
Lens				
lluminative, not suitable for film insert, ripped	17.5 x 25.4 mm	smoked translucent	02-901.1	0.004 kg
		red translucent	02-901.2	0.004 kg
		orange translucent	02-901.3	0.004 kg
		yellow translucent	02-901.4	0.004 kg
		green translucent	02-901.5	0.004 kg
		blue translucent	02-901.6	0.004 kg
		colourless transparent	02-901.7	0.004 kg
		white translucent	02-901.9	0.004 kg
uminative, use holder for film insert	17.5 x 25.4 mm	red translucent	02-902.2	0.004 kg
		green translucent	02-902.5	0.004 kg
		colourless transparent	02-902.7	0.004 kg
on-illuminative	17.5 x 25.4 mm	black opaque	02-901.0	0.004 kg
		grey opaque	02-901.8	0.004 kg

Keylock front bezel

Additional Information

- Keylock number YB1
- Further lock numbers see «Technical data»

Product attribute	Dimension	Material	Colour	Part No.	Weight	
Keylock front bezel						
	17.5 x 25.5 mm	Plastic	grey	02-980.1	0.002 kg	
for keylock switch Part No. 02-695	17.5 x 25.5 mm	Plastic	grey	02-982.1	0.002 kg	

Front bezel raised

Additional Information

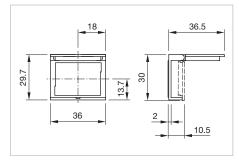
 Lens only removable with lens remover Part No. 98-969

Front bezel		Part No.	Weight
	Front bezel raised, Front dimension 24 x 36 mm		
Pastic black		02-967.0	0.001 kg

Protective cover, IP 65

Additional Information

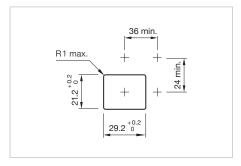
- Please note that bigger minimum distances are necessary
- Use only flush front bezel
- Hinged, with means for sealing
- Front panel thickness reduces by 2 mm



Dimensions [mm]

Product attribute	Material	Optics	Dimension	Part No.	Weight
Protective cover					
for button with mounting cut-out 21.2 x 29.2 mm	Plastic	transparent	36 x 29.7 mm	22-925	0.004 kg

Blind plug



Mounting cut-outs [mm]

Dimension	Material	Colour	Part No.	Weight
Blind plug				
24 x 36 mm	Plastic	black	02-949.0	0.004 kg
		grey	02-949.8	0.004 kg

02 Accessories

Backside

Terminal cover

Additional Information

- For all connection methods
- Not suitable for indicators with built-in series resistor with lamp

Part No.	Weight
Terminal cover	
02-929	0.005 kg

Actuator with snap-action switching element

Switching system

1 or 2 self-cleaning, snap-action switching elements. 1 or 2 double-throw contacts.

Material

Material of contact

Standard version:
Silver (U > 20 V)
Special versions: (on request)
Gold/Silver 700 Au/300 Ag (U < 50 V)
Silver/Palladium 700 Ag/300 Pd (U > 20 V) for atmospheres containing sulphur

Switch housing

Thermosetting material, heat-resistant

Indicator housing with reduced length

Polyamide

Mechanical characteristics

Terminals

Screw terminal (with self-lifting clip): max. wire cross-section, 2 x 2.5 mm² max. wire cross-section of stranded cable, 2 x 1.5 mm²

Tightening torque

For fixing sleeve max. 20 Ncm For screw terminal max. 80 Ncm

Actuating force

6N...12N

Actuating travel

5mm

Mechanical lifetime

Momentary action 2 million operations Maintained action 1 million operations

Electrical characteristics

Standards

The switches comply with the "Standards for low-voltage switching devices" IEC 60947-5-1

Rated insulation voltage

400 VAC/440 VDC, as per IEC 60947-5-1

Conventional free air thermal current

10A

The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

Switch rating

400 VAC, 10 A, $\cos\phi$ 0.95, as per IEC 60947-5-1 250 VAC, 10 A, as per UL

Electric strength

 $2500\,\text{VAC},\,50\,\text{Hz},\,1\,\text{min.}$ between all terminals and earth, as per IEC 60947-5-1

Environmental conditions

Storage temperature

-30°C...+85°C

Service temperature

-25°C...+55°C

For indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely.

Protection degree

Front side IP 40, IP 65 with spray cover, as per IEC 60529

Shock resistance

15 g for 11 ms, as per IEC 60068-2-27

Vibration resistance

10 g at 10...2000 Hz, amplitude 1.0 mm, as per IEC 60068-2-6

Approvals

Approbations

CB (IEC 60947-5-1) CSA Germanischer Lloyd UL

Declaration of conformity

CE