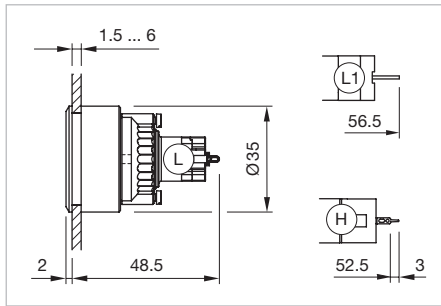


14 Flush design

Indicator, IP 67



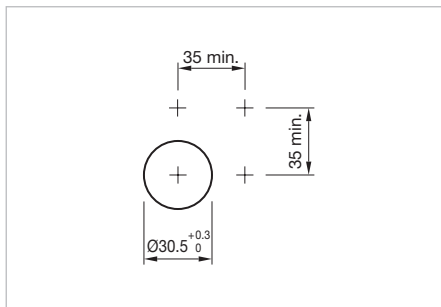
Product can differ from the current configuration.



Dimensions [mm]
 L = Solder terminal,
 L1 = Solder terminal 2.8 x 0.5 mm,
 H = Universal terminal 2.0 x 0.5 mm

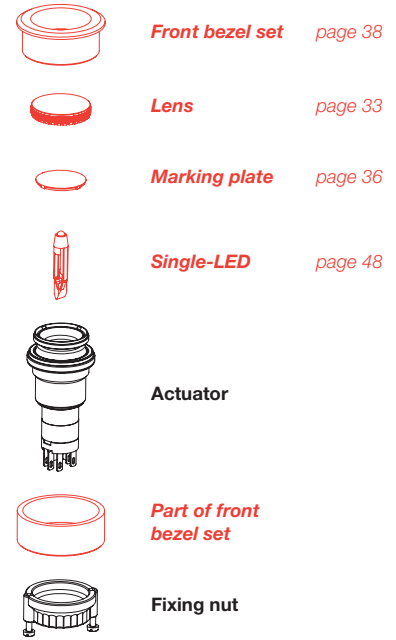
Additional Information

- For front dimension Ø 35 mm
- For LED element fitting information see «Application guidelines»




Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

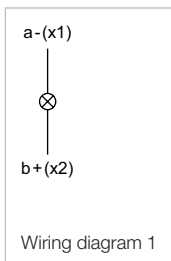


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

Terminal	Part No.	Component layout	Wiring diagram	Weight
				
Indicator actuator				
Solder 2.8 x 0.5 mm	14-040.002		1	0.050 kg
Solder	14-040.005		1	0.050 kg
Universal 2.0 x 0.5 mm	14-041.006	1	1	0.050 kg

The component layouts you will find from page 55

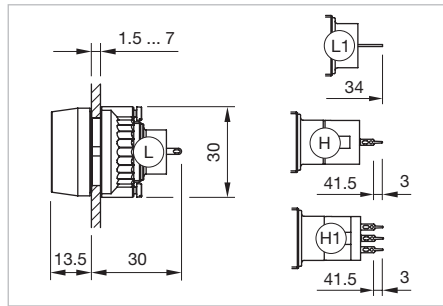


14 Raised design

Indicator full face illumination, IP 67



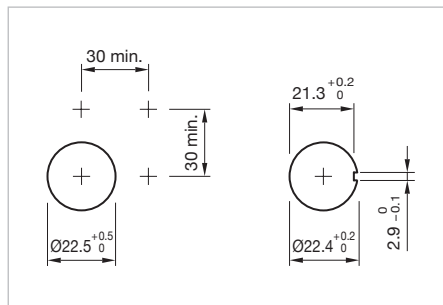
Product can differ from the current configuration.



Dimensions [mm]
 L = Solder terminal,
 L1 = Solder terminal 2.8 x 0.5 mm,
 H = Universal terminal 2.0 x 0.5 mm,
 H1 = Universal-Solder terminal

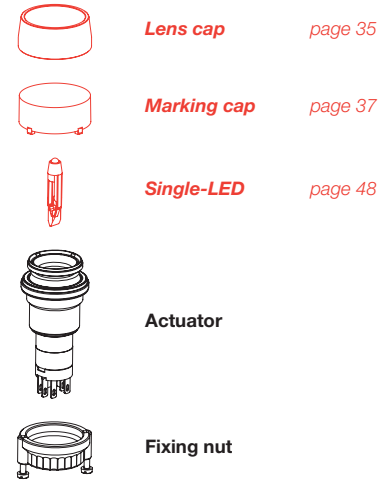
Additional Information

- For front dimension $\varnothing 29$ mm
- For LED element fitting information see «Application guidelines»




Mounting cut-outs [mm]
 Other mounting cut-outs see «Drawings»

Equipment consisting of (schematic overview)

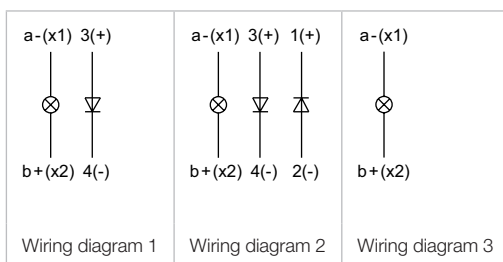


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

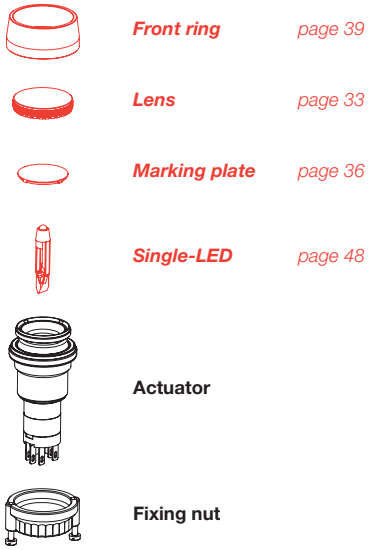
Diode 1N4007	Terminal	Part No.	Component layout	Wiring diagram	Weight
 <p>Indicator actuator full-face illumination</p>	1	Universal 2.0 x 0.5 mm	14-741.006	1	0.011 kg
	2	Universal 2.0 x 0.5 mm	14-742.006	2	0.011 kg
		Solder 2.8 x 0.5 mm	14-030.002	3	0.010 kg
		Solder	14-030.005	3	0.010 kg
		Universal 2.0 x 0.5 mm	14-031.006	1	3

The component layouts you will find from page 55



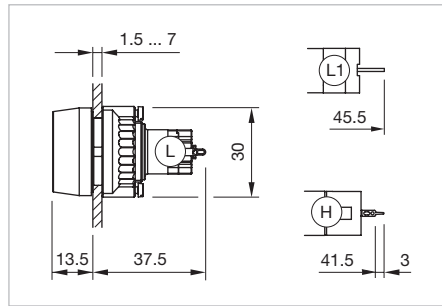
Indicator front illumination, IP 67

Equipment consisting of (schematic overview)



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

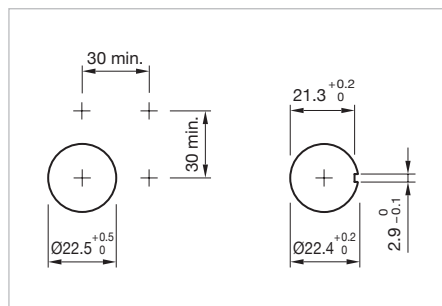
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L = Solder terminal,
 L1 = Solder terminal 2.8 x 0.5 mm,
 H = Universal terminal 2.0 x 0.5 mm




Product can differ from the current configuration.



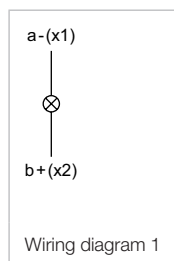
Mounting cut-outs [mm]
 Other mounting cut-outs see «Drawings»

Additional Information

- For front dimension \varnothing 29 mm
- For LED element fitting information see «Application guidelines»

Terminal	Part No.	Component layout	Wiring diagram	Weight
				
Indicator actuator front illumination				
Solder 2.8 x 0.5 mm	14-040.002		1	0.050 kg
Solder	14-040.005		1	0.050 kg
Universal 2.0 x 0.5 mm	14-041.006	1	1	0.050 kg

The component layouts you will find from page 55





Front

Lens plastic

Additional Information


- To obtain IP 67 use marking plate Part No. 704.609.X

Product attribute	Dimension	Lens	Symbol	Part No.	Weight
 Lens plastic round flat					
non-illuminative	Ø 23.7 mm	black opaque		704.602.0	0.001 kg
illuminative	Ø 23.7 mm	red transparent		704.602.2	0.001 kg
		yellow transparent		704.602.4	0.001 kg
		green transparent		704.602.5	0.001 kg
		blue transparent		704.602.6	0.001 kg
		colourless transparent		704.602.7	0.001 kg
 Lens plastic round flat					
illuminative	Ø 23.7 mm	colourless transparent	Ring	704.602.7A01	0.001 kg

Lens plastic increased

Additional Information


- To obtain IP 67 use marking plate Part No. 704.610.X

Product attribute	Dimension	Lens	Part No.	Weight
 Lens plastic round increased				
illuminative	Ø 23.7 mm	red transparent	704.611.2	0.002 kg
		yellow transparent	704.611.4	0.002 kg
		green transparent	704.611.5	0.002 kg
		colourless transparent	704.611.7	0.002 kg

Lens cap, Plastic

Additional Information


- To obtain IP 67 use marking plate Part No. 704.608.X

Product attribute	Lens cap	Part No.	Weight	
 <p>Lens cap round, Front dimension Ø 29 mm</p>				
	illuminative	Plastic red	704.603.2	0.003 kg
		Plastic yellow	704.603.4	0.003 kg
		Plastic green	704.603.5	0.003 kg
		Plastic blue	704.603.6	0.003 kg
		Plastic colourless	704.603.7	0.003 kg

Mushroom-head cap, Plastic

Additional Information

- To obtain IP 67 use marking plate Part No. 704.609.9


Mushroom-head cap	Part No.	Weight	
 <p>Mushroom-head cap, Front dimension Ø 40 mm</p>			
	black opaque	704.604.0	0.001 kg
	red opaque	704.604.2	0.001 kg
	yellow opaque	704.604.4	0.001 kg
	green opaque	704.604.5	0.001 kg

14 Accessories





Mushroom-head cap illuminated, Plastic

Additional Information


- To obtain IP 67 use marking plate
Part No. 704.609.9

Mushroom-head cap	Part No.	Weight
	Mushroom-head cap illuminated, Front dimension Ø 40 mm	
red transparent	704.614.2	0.007 kg
yellow transparent	704.614.4	0.007 kg
green transparent	704.614.5	0.007 kg
blue transparent	704.614.6	0.007 kg
colourless transparent	704.614.7	0.007 kg



Marking plate

Marking plate illumination	Marking plate	Part No.	Weight
	Marking plate for lens plastic and metal		
non-illuminative	black opaque	704.609.0	0.001 kg
	Marking plate for lens plastic and metal		
LED	colourless transparent ripped	704.609.7	0.001 kg
	Marking plate for lens plastic and metal		
LED and filament lamp	white translucent	704.609.9	0.001 kg
	Legend plate for lens plastic		
Halo illumination	white translucent	704.609.9A01	0.001 kg



Marking plate mushroom-head cap

Marking plate	Part No.	Weight
 <p>Marking plate for mushroom-head cap</p>		
white translucent	704.609.9	0.001 kg

Marking cap lens increased

Marking cap illumination	Marking cap	Part No.	Weight
 <p>Marking cap for lens plastic increased</p>			
LED	colourless transparent ripped	704.610.7	0.001 kg
 <p>Marking cap for lens plastic increased</p>			
LED and filament lamp	white translucent	704.610.9	0.001 kg

Marking cap for lens cap, Plastic


Marking cap illumination	Marking cap	Part No.	Weight
 <p>Marking cap for lens cap</p>			
LED	colourless transparent ripped	704.608.7	0.002 kg
 <p>Marking cap for lens cap</p>			
LED and filament lamp	white translucent	704.608.9	0.002 kg

14 Accessories

Front bezel set

Additional Information

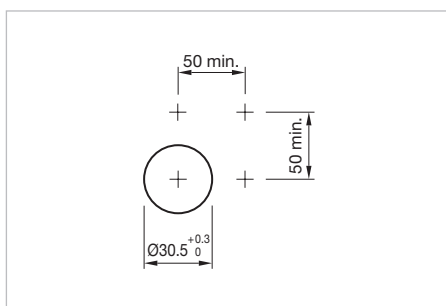
- The colour of anodized aluminium parts can vary due to technical production reasons

Mounting cut-out	Front ring	Part No.	Weight	
 <p>Front bezel set, flush design, Front dimension Ø 35 mm</p>				
	Ø 30.5 mm	Aluminium black anodized	14-955.0	0.015 kg
		Aluminium natural anodized	14-955.1	0.015 kg
		Stainless-steel natural	14-955.9	0.033 kg


Front bezel mushroom

Additional Information

- The colour of anodized aluminium parts can vary due to technical production reasons




Mounting cut-outs [mm]

Mounting cut-out	Front ring	Part No.	Weight	
 <p>Front bezel set for mushroom-head pushbutton, flush design, Front dimension Ø 50 mm</p>				
	Ø 30.5 mm	Aluminium natural anodized	14-958.8	0.042 kg
		Aluminium black anodized	14-958.0	0.042 kg

Front bezel set with protective membrane, IP 67

Additional Information


- For illuminated pushbutton for front protection IP 67
- Front ring to be mounted with a torque of 40 Ncm onto actuator
- Before assembling remove the flat gasket of the switch
- The colour of anodized aluminium parts can vary due to technical production reasons

Product attribute	Front ring	Part No.	Weight
 <p>Front bezel set with protective membrane, flush design, Front dimension Ø 35 mm</p>			
with transparent silicone membrane	Aluminium natural anodized	14-955.3	0.015 kg
	Aluminium black anodized	14-955.4	0.015 kg
with transparent silicone membrane, resistant to sea water	Stainless-steel natural	14-955.9E	0.033 kg

Front ring

Additional Information

- The colour of anodized aluminium parts can vary due to technical production reasons

Front ring	Part No.	Weight
 <p>Front ring, Front dimension Ø 29 mm</p>		
Plastic black	704.600.0	0.003 kg
Aluminium natural anodized	704.600.1	0.005 kg
Aluminium black anodized	704.600.1A	0.005 kg
Plastic light-grey	704.600.6	0.003 kg
Stainless-steel natural	704.600.9	0.006 kg

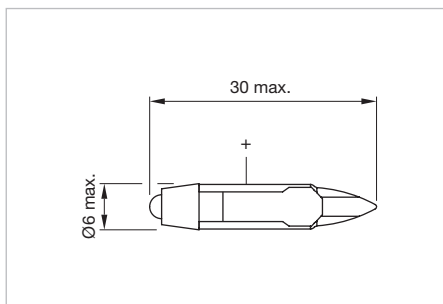
14 Accessories

Illumination


Single-LED, T5.5

Additional Information

- For LED element fitting information see «Application guidelines»
- When using AC/DC types with AC operation, slight flickering can occur
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- Luminosity and wave length scattering caused by LED manufacturing processes may cause slight variations in the illumination
- For supply voltages above 48V, a voltage reduction element (external series resistor or transformer) must be used
- Due to high surface temperatures, the series resistors must be soldered directly to the terminals of the equipment (use a terminal plate)




Dimensions [mm]

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 <p>Single-LED</p>						
red	6 VDC +10 %	15 mA ±15 %	350 mcd	630 nm	10-2106.3142	0.001 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2109.1062	0.001 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2112.1062	0.001 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2113.1062	0.001 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	10-2119.1042	0.001 kg
yellow	6 VDC +10 %	15 mA ±15 %	300 mcd	587 nm	10-2106.3144	0.001 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2109.1064	0.001 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2112.1064	0.001 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2113.1064	0.001 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	587 nm	10-2119.1044	0.001 kg
green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2106.3145	0.001 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2109.1065	0.001 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2112.1065	0.001 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2113.1065	0.001 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	10-2119.1045	0.001 kg
blue	6 VDC +10 %	15 mA ±15 %	680 mcd	470 nm	10-2106.3146	0.001 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2109.1066	0.001 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2112.1066	0.001 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2113.1066	0.001 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	470 nm	10-2119.1046	0.001 kg

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
white	6 VDC +10 %	6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2106.3149	0.001 kg
	12 VAC/DC +10 %	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2109.1069	0.001 kg
	24 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2112.1069	0.001 kg
	28 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2113.1069	0.001 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	x0.31/y0.32 nm	10-2119.1049	0.001 kg


Filament lamp, T5.5

Operating voltage	Operation current	Part No.	Weight
 <p>Filament lamp</p>			
6 VAC/DC	200 mA	10-1106.1369	0.001 kg
12 VAC/DC	50 mA	10-1109.1279	0.001 kg
12 VAC/DC	100 mA	10-1109.1329	0.001 kg
24 VAC/DC	25 mA	10-1112.1199	0.001 kg
24 VAC/DC	50 mA	10-1112.1279	0.001 kg
28 VAC/DC	40 mA	10-1113.1249	0.001 kg
30 VAC/DC	40 mA	10-1114.1249	0.001 kg
36 VAC/DC	35 mA	10-1116.1229	0.001 kg
48 VAC/DC	25 mA	10-1119.1199	0.001 kg

Series resistor

Additional Information

- Only for filament lamp 48 VAC, 25 mA
- For lamp voltage reduction
- Keep to the country specific safety instructions
- Due to high surface temperatures, the series resistor must not be soldered directly to the terminals of the equipment (use a terminal plate)


Operating voltage	Resistance	Part No.	Weight
 <p>Series resistor</p>			
110 VAC	2.7 kOhm	02-904.0	0.003 kg
125 VAC	3.3 kOhm	02-904.1	0.003 kg
145 VAC	4.7 kOhm	02-904.3	0.003 kg
240 VAC	10 kOhm	02-904.7	0.003 kg

14 Accessories

Reducing ring

Additional Information


- You need to install two reduction rings
- For mounting of Ø 22.5 mm device into Ø 30.5 mm mounting cut-out
- The colour of anodized aluminium parts can vary due to technical production reasons

Material	Colour	Part No.	Weight
 <p>Reducing ring</p>			
Aluminium	black anodized	704.960.0	0.004 kg
	natural anodized	704.960.8	0.004 kg

Lens plug

Additional Information


- For mounting and dismantling of lens round, flush design

Part No.	Weight
 <p>Lens plug for round lens, flush design</p>	
700.006.0	0.003 kg

Lamp remover

Additional Information

- ▲ **Caution:** A switching process might be released when replacing the lamp

Part No.	Weight
 <p>Lamp remover</p>	
02-906	0.002 kg