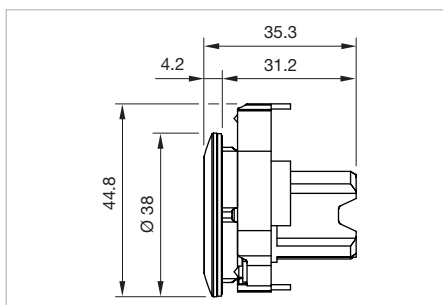


45 Flush design

Indicator, IP66, IP67, IP69K



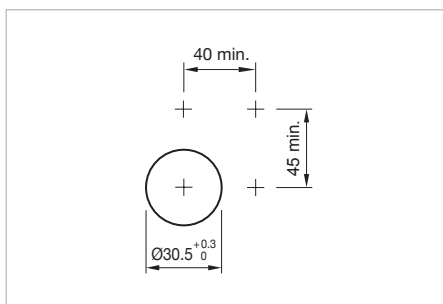
Product can differ from the current configuration.



Dimensions [mm]

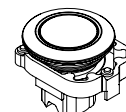
Additional Information

- Front panel thickness 1-6 mm

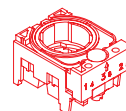


Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

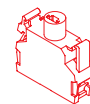


Actuator



Holder

Page 111



Illumination element

Page 113

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.

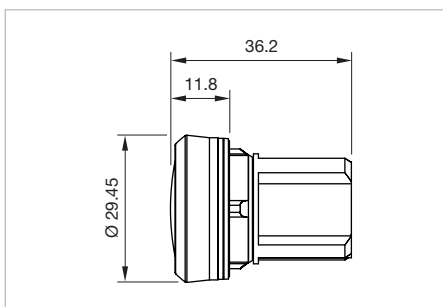
LED colour	Front ring	Lens cap	Part No.	Weight
 Indicator actuator, Front dimension Ø 38 mm				
red	Metal sandgrey	Plastic red transparent	45-2T07.4FE0.000	0.048 kg
 Indicator actuator, Front dimension Ø 38 mm				
yellow	Metal sandgrey	Plastic yellow transparent	45-2T07.4FG0.000	0.048 kg
 Indicator actuator, Front dimension Ø 38 mm				
green	Metal sandgrey	Plastic green transparent	45-2T07.4FH0.000	0.048 kg
 Indicator actuator, Front dimension Ø 38 mm				
blue	Metal sandgrey	Plastic blue transparent	45-2T07.4FJ0.000	0.048 kg
 Indicator actuator, Front dimension Ø 38 mm				
white	Metal sandgrey	Plastic colourless transparent	45-2T07.4FK0.000	0.048 kg

45 Raised design

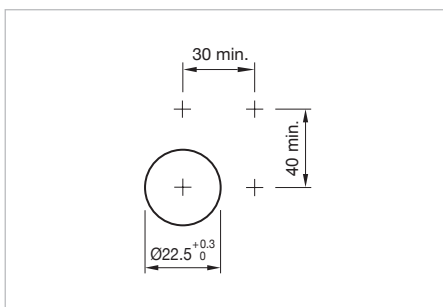
Indicator full face illumination, IP66, IP67, IP69K



Product can differ from the current configuration.



Dimensions [mm]

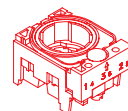


Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

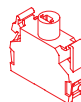


Actuator



Holder

Page 111



Illumination element

Page 113

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.

LED colour	Housing material	Lens cap	Part No.	Weight
 Indicator actuator, Front dimension Ø 29.45 mm				
amber	Plastic	Plastic amber transparent	45-2T00.10F0.000	0.001 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
red	Plastic	Plastic red transparent	45-2T00.10E0.000	0.001 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
yellow	Plastic	Plastic yellow transparent	45-2T00.10G0.000	0.001 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
green	Plastic	Plastic green transparent	45-2T00.10H0.000	0.001 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
blue	Plastic	Plastic blue transparent	45-2T00.10J0.000	0.001 kg

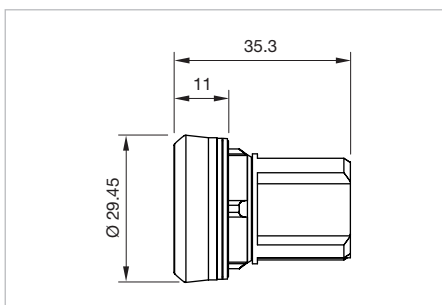
LED colour	Housing material	Lens cap	Part No.	Weight
 Indicator actuator, Front dimension Ø 29.45 mm				
white	Plastic	Plastic white transparent	45-2T00.10N0.000	0.001 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
colourless	Plastic	Plastic colourless transparent	45-2T00.10K0.000	0.001 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
amber	Metal	Plastic amber transparent	45-2T00.20F0.000	0.010 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
red	Metal	Plastic red transparent	45-2T00.20E0.000	0.010 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
yellow	Metal	Plastic yellow transparent	45-2T00.20G0.000	0.010 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
green	Metal	Plastic green transparent	45-2T00.20H0.000	0.010 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
blue	Metal	Plastic blue transparent	45-2T00.20J0.000	0.010 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
white	Metal	Plastic white transparent	45-2T00.20N0.000	0.010 kg
 Indicator actuator, Front dimension Ø 29.45 mm				
colourless	Metal	Plastic colourless transparent	45-2T00.20K0.000	0.010 kg

45 Raised design

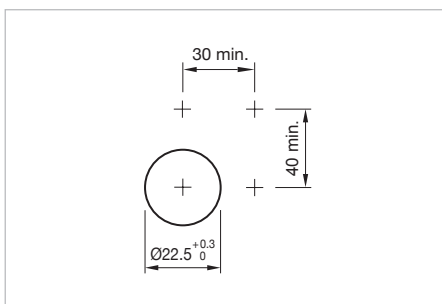
Indicator front illumination, IP66, IP67, IP69K



Product can differ from the current configuration.



Dimensions [mm]

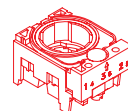


Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

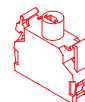


Actuator



Holder

Page 111



Illumination element

Page 113

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

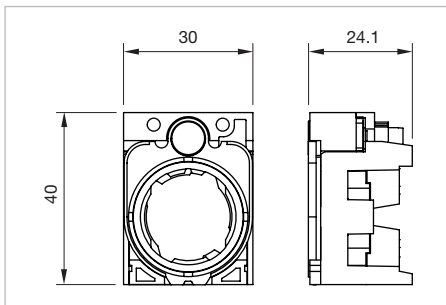
To obtain a complete unit, please select the red components from the pages shown.

LED colour	Front ring	Lens	Housing material	Part No.	Weight
 Indicator actuator, Front dimension Ø 29.45 mm					
red	Plastic black	Plastic red transparent	Plastic	45-2T07.10E0.000	0.011 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
yellow	Plastic black	Plastic yellow transparent	Plastic	45-2T07.10G0.000	0.011 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
green	Plastic black	Plastic green transparent	Plastic	45-2T07.10H0.000	0.011 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
blue	Plastic black	Plastic blue transparent	Plastic	45-2T07.10J0.000	0.011 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
colourless	Plastic black	Plastic colourless transparent	Plastic	45-2T07.10K0.000	0.011 kg

LED colour	Front ring	Lens	Housing material	Part No.	Weight
 Indicator actuator, Front dimension Ø 29.45 mm					
red	Metal sandgrey	Plastic red transparent	Plastic	45-2T07.30E0.000	0.020 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
yellow	Metal sandgrey	Plastic yellow transparent	Plastic	45-2T07.30G0.000	0.020 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
green	Metal sandgrey	Plastic green transparent	Plastic	45-2T07.30H0.000	0.020 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
blue	Metal sandgrey	Plastic blue transparent	Plastic	45-2T07.30J0.000	0.020 kg
 Indicator actuator, Front dimension Ø 29.45 mm					
colourless	Metal sandgrey	Plastic colourless transparent	Plastic	45-2T07.30K0.000	0.020 kg

Rear side

Holder for 3 elements

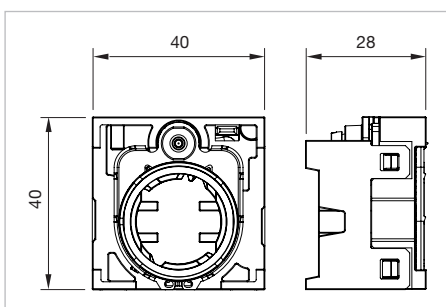


Dimensions [mm]

Material	Part No.	Component layout	Weight
 Holder for 3 switching elements			
Plastic	45-2300.1000.000	2	0.028 kg
 Holder for 3 switching elements			
Metal	45-2300.2000.000	2	0.046 kg

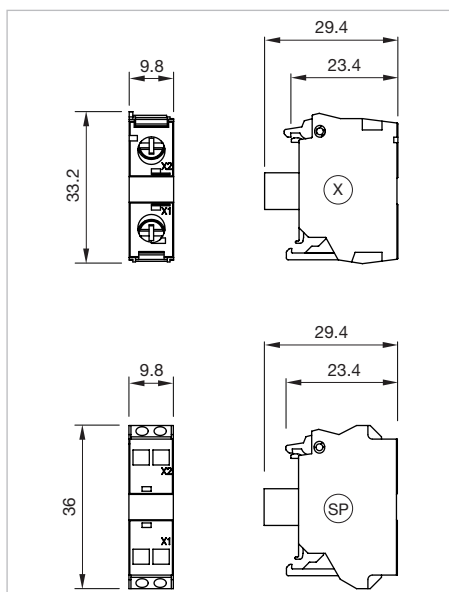
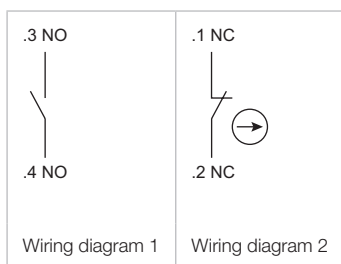
The component layouts you will find from Page 116

Holder for 4 elements



Dimensions [mm]

Material	Part No.	Component layout	Weight
 Holder for 4 switching elements			
Plastic	45-2400.1000.000	3	0.028 kg



Dimensions [mm]

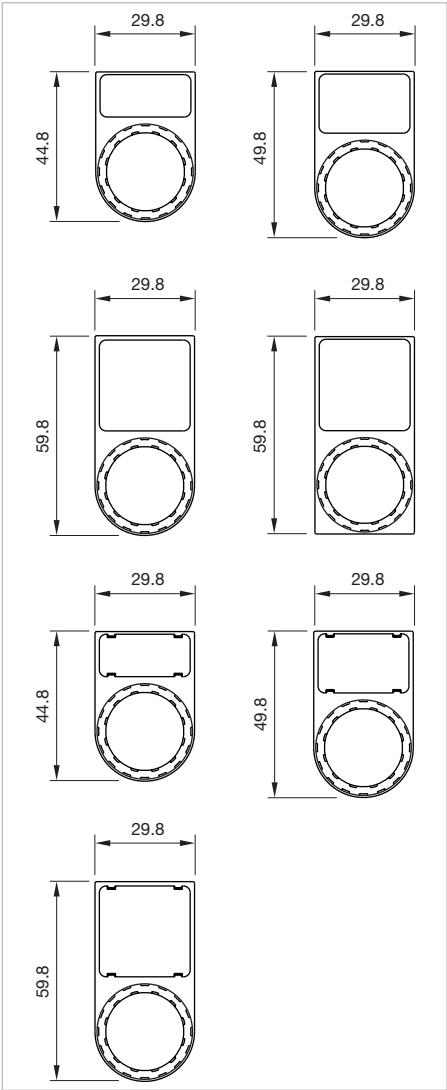
X = Screw terminal, SP = Spring-type terminal

LED colour	Operating voltage	Terminal	Part No.	Wiring diagram	Weight
 Illumination element					
red	24 VAC/DC	Screw	45-320.1E16	1	0.009 kg
amber	24 VAC/DC	Screw	45-320.1F16	1	0.009 kg
yellow	24 VAC/DC	Screw	45-320.1G16	1	0.009 kg
green	24 VAC/DC	Screw	45-320.1H16	1	0.009 kg
blue	24 VAC/DC	Screw	45-320.1J16	1	0.009 kg
white	24 VAC/DC	Screw	45-320.1N16	1	0.009 kg
red	230 VAC	Screw	45-320.1E18	1	0.010 kg
amber	230 VAC	Screw	45-320.1F18	1	0.010 kg
yellow	230 VAC	Screw	45-320.1G18	1	0.010 kg
green	230 VAC	Screw	45-320.1H18	1	0.010 kg
blue	230 VAC	Screw	45-320.1J18	1	0.010 kg
white	230 VAC	Screw	45-320.1N18	1	0.010 kg
red	24-240 VAC/DC	Screw	45-320.1E12	1	0.010 kg
amber	24-240 VAC/DC	Screw	45-320.1F12	1	0.010 kg
yellow	24-240 VAC/DC	Screw	45-320.1G12	1	0.010 kg
green	24-240 VAC/DC	Screw	45-320.1H12	1	0.010 kg
blue	24-240 VAC/DC	Screw	45-320.1J12	1	0.010 kg
white	24-240 VAC/DC	Screw	45-320.1N12	1	0.010 kg

Legend support without legend

Additional Information

- For sticking or snapping in place



Dimensions [mm]

Product attribute	Material	Colour	Part No.	Weight
 Legend support without legend				
for legend plate 27 x 12.5 mm	Plastic	black	45-564.1102	0.002 kg
 Legend support without legend				
for legend plate 27 x 17.5 mm	Plastic	black	45-567.1103	0.002 kg
 Legend support without legend				
for legend plate 27 x 27 mm	Plastic	black	45-569.1105	0.002 kg

45 Raised design

Product attribute	Dimension	Material	Colour	Part No.	Weight
 Legend plate					
for sticking or snapping in place	27 x 12.5 mm	Plastic	black	45-573.1102	0.001 kg
			red	45-573.1202	0.001 kg
			silver	45-573.1A02	0.001 kg
 Legend plate					
for sticking or snapping in place	27 x 17.5 mm	Plastic	black	45-573.1103	0.001 kg
			silver	45-573.1A03	0.001 kg
 Legend plate					
for sticking or snapping in place	27 x 27 mm	Plastic	black	45-573.1105	0.001 kg
			silver	45-573.1A05	0.001 kg
 Legend plate					
for sticking or snapping in place	22 x 22 mm	Plastic	silver	45-573.1A04	0.001 kg

Emergency stop legend

Additional Information

- Front panel thickness 3 mm max.

Dimension	Mounting cut-out	Marking	Colour	Product attribute	Part No.	Weight
 Emergency stop legend						
Ø 45 x 1 mm	Ø 22.5 mm	without marking	yellow		45-50K.1407	0.005 kg
 Emergency stop legend						
Ø 75 x 1 mm	Ø 22.5 mm	without marking	yellow		45-50K.1408	0.010 kg

Indicator actuator

Material

Actuator element

Plastic

Front ring

Plastic or metal

Actuator housing

Plastic or metal

Mechanical characteristics

Vibration resistance

according to IEC 60068-2-6

2 ... 500 Hz: 5 g

Shock resistance

according to IEC 60068-2-27

Sinusoidal half-wave 50 g /11 ms

Environmental conditions

Operating temperature

-25 °C ... +70 °C

Storage temperature

-40 °C ... +80 °C

Protection degree

IP66, IP67, IP69K

Environmental category

during operation according to IEC 60721:

3K6, 3C3,3S2, 3M6

Pushbutton actuator

Material

Actuator element

Plastic

Front ring

Plastic or metal

Actuator housing

Plastic or metal

Mechanical characteristics

Operating frequency

Lens flat/level with front bezel:

- Momentary max. 3 600/h

- Maintain max. 1 800/h

Lens flat/raised above front ring:

- Momentary max. 3 600/h

- Maintain max. 1 800/h

Lens flat/lower than front ring:

- Momentary max. 3 600/h

Lens flat/lower than front ring, with castellation:

- Momentary max. 3 600/h

Mechanical lifetime

Lens flat/level with front bezel:

- Momentary 10 000 000 switching cycles

- Maintain 500 000 switching cycles

Lens flat/raised above front ring:

- Momentary 10 000 000 switching cycles

- Maintain 500 000 switching cycles

Lens flat/lower than front ring:

- Momentary 10 000 000 switching cycles

Lens flat/lower than front ring, with castellation:

- Momentary 10 000 000 switching cycles

Vibration resistance

according to IEC 60068-2-6

20 ... 500 Hz: 5 g

Shock resistance

according to IEC 60068-2-27

Sinusoidal half-wave 50 g /11 ms

Environmental conditions

Operating temperature

-25 °C ... +70 °C

Storage temperature

-40 °C ... +80 °C

Protection degree

IP66, IP67, IP69K

Environmental category

during operation according to IEC 60721:

3K6, 3C3,3S2, 3M6

Inscription marking plates and legend plates

Labels can be inserted for identification purposes in illuminated pushbuttons and pushbuttons with a flat lens. This marking plates are made of translucent plastic with a black inscription, which can be fitted in any 90° angle.

Standard texts for marking plates

Example		Part No. 45-563.0K00.T00029
----------------	---	-----------------------------

Standard texts German		Standard texts English	
Ein	Part No. 45-563.0K00.T00001	On	Part No. 45-563.0K00.T00020
Aus	Part No. 45-563.0K00.T00002	Off	Part No. 45-563.0K00.T00021
Auf	Part No. 45-563.0K00.T00003	Up	Part No. 45-563.0K00.T00022
Ab	Part No. 45-563.0K00.T00004	Down	Part No. 45-563.0K00.T00023
Vor	Part No. 45-563.0K00.T00005	Forward	Part No. 45-563.0K00.T00024
Zurück	Part No. 45-563.0K00.T00006	Right	Part No. 45-563.0K00.T00026
Rechts	Part No. 45-563.0K00.T00007	Left	Part No. 45-563.0K00.T00027
Links	Part No. 45-563.0K00.T00008	Stop	Part No. 45-563.0K00.T00028
Halt	Part No. 45-563.0K00.T00009	Start	Part No. 45-563.0K00.T00029
Zu	Part No. 45-563.0K00.T00010	Reset	Part No. 45-563.0K00.T00030
Schnell	Part No. 45-563.0K00.T00011	Test	Part No. 45-563.0K00.T00031
Langsam	Part No. 45-563.0K00.T00012	Open	Part No. 45-563.0K00.T00032
Betrieb	Part No. 45-563.0K00.T00013	Close	Part No. 45-563.0K00.T00033
Störung	Part No. 45-563.0K00.T00014	Running	Part No. 45-563.0K00.T00035
Einrichten	Part No. 45-563.0K00.T00018	Fast	Part No. 45-563.0K00.T00044
		Slow	Part No. 45-563.0K00.T00045