

Choose one component from each of the coloured sections to assemble a complete switch.

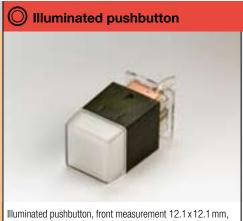
For other options or further information please contact your local sales office.

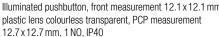
Product Profile

The Series 95 is a high quality switch range containing illuminated and non-illuminated pushbuttons. The switching elements are equiped with goldplated, self cleaning and momentary contact elements.

Technical data see page 135

- IP40 Protection
- Switch Rating, 50 mA, 48 VDC
- Suitable for mounting on PCB's with thickness of 1.5 to 2.5 mm
- Switch held during the soldering process by the spring clip contacts
- Illumination using SMD LED's with PLCC housing (height 2.1 mm) and a radiation angle of approx. 120°
- Lenses available matt translucent or clear transparent in flat, concave or convex
- Available sizes are: 12.1 mm, 15.2 mm and 18.4 mm square
- Greater than 5 million switch cycles
- Independent illumination allows for flexibility
- Silent operation as required in some audio/ video applications and light and stage technology





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IP40

50 mA

48 VDC

Illuminated pushbutton, front measurement 15.2x15.2 mm, plastic lens colourless transparent, PCP measurement 15.88x15.88 mm, 1 NO, IP40

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Part No.	Finish	Shape	Part No.	Finish	Shape
95-313.720	Matt	Flush	95-515.740	Matt	Concave
95-313.750	Clear	Flush	95-515.720	Matt	Flush
			95-515.770	Clear	Concave
			95-515.750	Clear	Flush



O Illuminated pushbutton



Illuminated pushbutton, front measurement 18.4x18.4 mm, plastic lens colourless transparent, PCP measurement 19.05 x 19.05 mm. 1 NO. IP40



Diffuser, 12.1 mm x 12.1 mm (small)

Part No.	Finish	Shape		Part No.	
95-414.740	Matt	Concave	Red	95-803.220	
95-414.720	Matt	Concave	Yellow	95-803.420	
95-414.770	Clear	Concave	Orange	95-803.320	
95-414.750	Clear	Flush	Green	95-803.520	
			Blue	95-803.620	
			O White	95-803.920	standard

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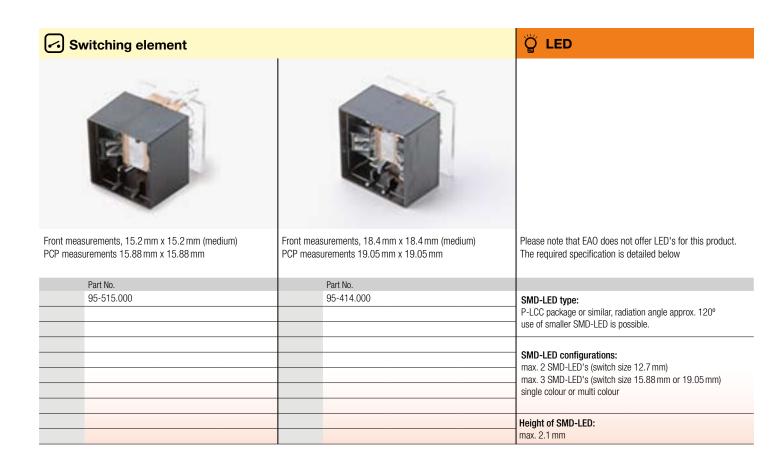
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A Accessories Switching element Diffuser, 15.2 mm x 15.2 mm (medium) Diffuser, 18.4 mm x 18.4 mm (large) Front measurements, 12.1 mm x 12.1 mm (small) PCP measurements 12.7 mm x 12.7 mm Part No. Part No. Part No. Red Red 95-805.220 95-804.220 95-313.000 O Yellow 95-804.420 O Yellow 95-805.420 Orange 95-805.320 Orange 95-804.320 Green 95-805.520 Green 95-804.520 Blue 95-805.620 Blue 95-804.620 O White 95-805.920 standard O White 95-804.920 standard

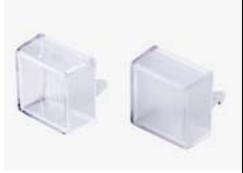


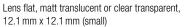


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A Accessories







Lens flat, matt translucent or clear transparent, 15.2 mm x 15.2 mm (medium)



Lens flat, matt translucent or clear transparent, 18.4 mm x 18.4 mm (large)

Colour	Part No.	Lens shape	Lens material	Colour	Part No.	Lens shape	Lens material	Colour	Part No.	Lens shape	Lens material
Neutral	95-703.720	Flat	Matt transparent	Neutral	95-705.720	Flat	Matt transparent	Neutral	95-704.720	Flat	Matt transparent
Neutral	95-703.750	Flat	Clear transparent	O Neutral	95-705.750	Flat	Clear transparent	Neutral	95-704.750	Flat	Clear transparent
				Neutral	95-705.740	Concave	Matt transparent	Neutral	95-704.740	Concave	Matt transparent
				O Neutral	95-705.770	Concave	Clear transparent	Neutral	95-704.770	Concave	Clear transparent
								Neutral	95-704.730	Convex	Matt transparent
								Neutral	95-704.760	Convex	Clear transparent

A Accessories



Lens remover and mounting tool for use with all three switch sizes

Image	Part No.	Product description
1	95-900.009	Mounting tool
2	95-900.005	Lens remover

Technical Data Series 95

Pushbutton- and Illuminated pushbutton

Switching system

Gold plated momentary contact, 1 normally open, self-cleaning

Material

Plastic items

PC, as per UL 94 HB, Cd-free

Material of contacts

CuSn, contact gold-plated, soldering terminal tinned

Mechanical characteristics

Actuating travel

4.5 mm

Actuating force

3N to end position

Switching point

at 2.3 ±0.8 mm operation

Life time

>5 million operations, as per IEC 60512-5-9a

Electrical characteristics

Illumination

recommended SMD-LED types:

P-LCC package or similar, radiation angle approx. 120°; use of smaller

SMD-LED is possible

SMD-LED configurations size:

max. 2 SMD-LEDs for switch size 12.70 mm

max. 3 SMD-LEDs for switch size 15.88 mm and 19.05 mm, single

colour or multi-colour

Height of SMD-LED:

max. 2.1 mm

Switch rating

min. 1 mVDC, 100 μA

max. 48 VDC, 50 mA

Electric strength

≤50 mΩ, as per IEC 60512-2-2b at new state

Isolation resistance

>1 $T\Omega$, as per IEC 60512-2-3a between contacts

Electric strength

2.5 kVAC, as per IEC 60512-2-11

Environmental characteristics

Front protection

IP40 before front plate for complete switch

Operating temperature

-25°C ... +70°C

Storage temperature

-40°C ... +80°C

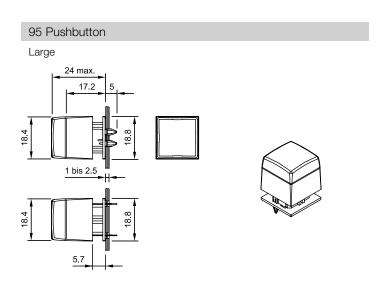
Vibration resistance

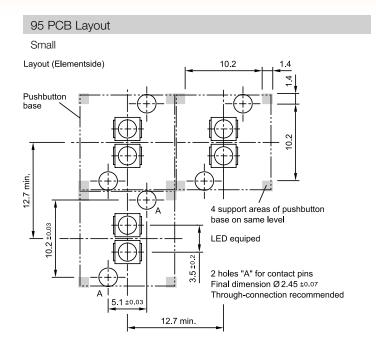
10g, at 10 - 2000 Hz, 0.75 mm, as per IEC 60512-4-4

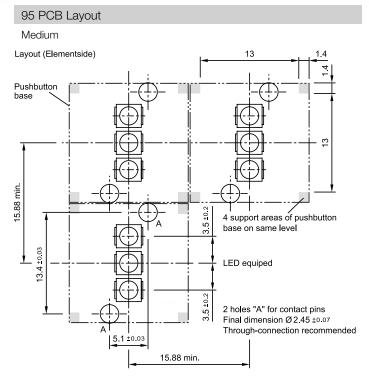
Shock resistance

50g, 11 ms, as per IEC 60512-4-3

95 Pushbutton Small Medium 24 max. 17.2 5 1 bis 2.5 1 bis 2.5 5.7







95 PCB Layout

