84 Flush design

Indicator standard



Product can differ from the current configuration.



- Dimensions [mm]
- F1 = Flat ribbon cable,
- P1 = Plug-in terminal 2.8 x 0.8 mm,
- M1 = Lens level with bezel,
- M2 = Lens raised above bezel
- M5 = Mushroom-head cap



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.

Additional Information

- Illuminated lens, non-illuminated bezel
- The colour of anodized aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]

Front protection	Front ring	Part No.	Weight
Indicator actuator standard, Front d	imension Ø 25 mm		
IP 40	Plastic black	84-3100.0	0.004 kg
IP 67	Plastic black	84-0100.0	0.003 kg
	Aluminium natural anodized	84-0200.7	0.008 kg

4

Indicator PCB standard





Dimensions [mm] M1 = Lens level with bezel, M2 = Lens raised above bezel M5 = Mushroom-head cap



Product can differ from the current configuration.

Additional Information

- Illuminated lens, non-illuminated bezel
- The colour of anodized aluminium parts can vary due to technical production reasons

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.



Front protection	Front ring	Part No.	Weight
Indicator actuator PCB standard, Fr	ont dimension Ø 25 mm		
IP 40	Plastic black	84-3100.0	0.004 kg
IP 67	Plastic black	84-0100.0	0.003 kg
	Aluminium natural anodized	84-0200.7	0.008 kg

84 Flush design

Indicator with halo illumination standard, IP 67



Product can differ from the current configuration.





- F1 = Flat ribbon cable,
- $P1 = Plug-in terminal 2.8 \times 0.8 mm$,

M2 = Lens raised above bezel,

M4 = Lens convexe raised above bezel



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.

Additional Information

- Front bezel illuminated
- Accessories for halo illumination: Essential lenses Part No. 84-7202.x00A and 84-7205.x00A



Front ring	Part No.	Weight
Indicator actuator with halo illumination standard, Front dimension Ø 25 mm		
Plastic colourless translucent	84-0090.7	0.006 kg

Indicator with halo illumination PCB standard, IP 67



To obtain a complete unit, please select the red com-

ponents from the pages shown.



Dimensions [mm] M2 = Lens raised above bezel, M4 = Lens convexe raised above bezel





Product can differ from the current configuration.

Additional Information

- Front bezel illuminated
- Accessories for halo illumination: Essential lenses Part No. 84-7202.x00A and 84-7205.x00A

Front ring	Part No.	Weight
Indicator actuator with halo illumination PCB standard, Front dimension Ø 25 mm		
Plastic colourless translucent	84-0090.7	0.006 kg

84 Flush design

Indicator for ring illumination (multicolor) PCB or Halo Compact, IP 67



Product can differ from the current configuration.



Dimensions [mm]

M1 = Lens level with bezel,

M2 = Lens raised above bezel,

M3 = Lens konvexe level with bezel,

M4 = Lens convexe raised above bezel



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.

Additional Information

The LEDs are not part of delivery.
 Recommendation: Osram Hyper Mini TOPLED



Front ring		Part No.	Weight
Г Г	ndicator actuator for ring illumination (multicolor) PCB or Halo Compact, Front dimen	sion Ø 25 mm	ı
Plastic colourless tra	nsparent	84-0080.7	0.006 kg

84 Accessories

Front

Lens plastic

Additional Information

Lens profile flat

Product attribute	Dimension	Lens	Mounting type	Part No.	Weight
Lens	plastic				
illuminative	Ø 19.7 mm	red transparent	level with bezel	84-7111.200	0.001 kg
		orange transparent	level with bezel	84-7111.300	0.001 kg
		yellow transparent	level with bezel	84-7111.400	0.001 kg
		green transparent	level with bezel	84-7111.500	0.001 kg
		blue transparent	level with bezel	84-7111.600	0.001 kg
		colourless transparent	level with bezel	84-7111.700	0.001 kg
non-illuminative	Ø 19.7 mm	black opaque	level with bezel	84-7121.000	0.001 kg
		grey opaque	level with bezel	84-7121.800	0.001 kg
illuminative	Ø 19.7 mm	red transparent	raised above bezel	84-7115.200	0.001 kg
		orange transparent	raised above bezel	84-7115.300	0.001 kg
		yellow transparent	raised above bezel	84-7115.400	0.001 kg
		green transparent	raised above bezel	84-7115.500	0.001 kg
		blue transparent	raised above bezel	84-7115.600	0.001 kg
		colourless transparent	raised above bezel	84-7115.700	0.001 kg
non-illuminative	Ø 19.7 mm	black opaque	raised above bezel	84-7125.000	0.001 kg
		grey opaque	raised above bezel	84-7125.800	0.001 kg

Marking plate

Additional Information

Can be hot stamped

Marking plate	Part No.	Weight
Legend plate for lens plastic		
Plastic colourless transparent	61-9707.7	0.001 kg

Lens plastic with symbol

Additional Information

- Lens profile flat
- Illuminative
- The silvery coat is being applied on the lens (screen print) with an additional protective lacquer. Further information see «Technical data»

Dimension	Lens	Mounting type	Symbol	Part No.	Weight
V	ns plastic with symbol				
Ø 19.7 mm	red transparent	level with bezel	Ring	84-7111.201	0.002 kg
	orange transparent	level with bezel	Ring	84-7111.301	0.002 kg
	yellow transparent	level with bezel	Ring	84-7111.401	0.002 kg
	green transparent	level with bezel	Ring	84-7111.501	0.002 kg
	blue transparent	level with bezel	Bing	84-7111.601	0.002 kg
			r in ig		
	colourless transparent	level with bezel	Ring	84-7111.701	0.002 kg
Correction Ler	colourless transparent	level with bezel	Ring	84-7111.701	0.002 kg
Ler	colourless transparent as plastic with symbol red transparent	level with bezel	ON/OFF	84-7111.701 84-7111.202	0.002 kg
Ler 3 19.7 mm	colourless transparent as plastic with symbol red transparent green transparent	level with bezel level with bezel level with bezel	ON/OFF ON/OFF	84-7111.701 84-7111.202 84-7111.502	0.002 kg 0.002 kg 0.002 kg
Ler 3 19.7 mm	colourless transparent as plastic with symbol red transparent green transparent blue transparent	level with bezel level with bezel level with bezel level with bezel	ON/OFF ON/OFF ON/OFF	84-7111.701 84-7111.202 84-7111.502 84-7111.602	0.002 kg 0.002 kg 0.002 kg 0.002 kg
2 19.7 mm	colourless transparent as plastic with symbol red transparent green transparent blue transparent colourless transparent	level with bezel	ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF	84-7111.701 84-7111.202 84-7111.502 84-7111.602 84-7111.702	0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg
2 19.7 mm	colourless transparent	level with bezel	ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF	84-7111.701 84-7111.202 84-7111.502 84-7111.602 84-7111.702	0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg
2 19.7 mm	colourless transparent	level with bezel	Ring ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF Stand by	84-7111.701 84-7111.202 84-7111.502 84-7111.602 84-7111.702 84-7111.203	0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg
2 19.7 mm	colourless transparent	level with bezel	Ring ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF Stand by Stand by	84-7111.701 84-7111.202 84-7111.502 84-7111.602 84-7111.702 84-7111.703	0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg 0.002 kg
2 19.7 mm	colourless transparent colourless transparent red transparent green transparent blue transparent colourless transparent ns plastic with symbol red transparent green transparent blue transp	level with bezel level with bezel	Ring ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF Stand by Stand by Stand by Stand by Stand by Stand by	84-7111.701 84-7111.202 84-7111.502 84-7111.602 84-7111.702	0.002 kg 0.002 kg

Lens metal

Additional Information

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

Product attribute	Dimension	Lens	Mounting type	Part No.	Weight
Lens meta	al				
flat	Ø 19.7 mm	Aluminium black anodized	level with bezel	84-7201.000	0.003 kg
	Ø 19.7 mm	Aluminium red anodized	level with bezel	84-7201.200	0.003 kg

84 Accessories

Lens metal with dot

Additional Information

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

Product attribute	Dimension	Lens	Mounting type	Part No.	Weight
Lens met	al with dot				
illuminative	Ø 19.7 mm	Aluminium black anodized	level with bezel	84-7211.000	0.002 kg
		Aluminium red anodized	level with bezel	84-7211.200	0.002 kg
		Aluminium gold anodized	level with bezel	84-7211.400	0.002 kg
		Aluminium olive-green anodized	level with bezel	84-7211.500	0.002 kg
		Aluminium blue anodized	level with bezel	84-7211.600	0.002 kg
		Aluminium natural anodized	level with bezel	84-7211.800	0.002 kg
		Aluminium black anodized	raised above bezel	84-7215.000	0.002 kg
		Aluminium red anodized	raised above bezel	84-7215.200	0.002 kg
		Aluminium gold anodized	raised above bezel	84-7215.400	0.002 kg
		Aluminium olive-green anodized	raised above bezel	84-7215.500	0.002 kg
		Aluminium blue anodized	raised above bezel	84-7215.600	0.002 kg
		Aluminium natural anodized	raised above bezel	84-7215.800	0.002 kg

Mushroom-head cap

Product attribute	Mushroom-head cap	Part No.	Weight
Mushroom-head cap, Front dimens	sion Ø 32 mm		
Mushroom-head cap, Front dimens	sion Ø 32 mm Plastic blue	84-7114.600A	0.004 kg
Mushroom-head cap, Front dimens illuminative non-illuminative	Sion Ø 32 mm Plastic blue Plastic black	84-7114.600A 84-7124.000A	0.004 kg 0.004 kg
illuminative	Sion Ø 32 mm Plastic blue Plastic black Plastic red	84-7114.600A 84-7124.000A 84-7124.200A	0.004 kg 0.004 kg 0.004 kg
Mushroom-head cap, Front dimens	Sion Ø 32 mm Plastic blue Plastic black Plastic red Plastic yellow	84-7114.600A 84-7124.000A 84-7124.200A 84-7124.400A	0.004 kg 0.004 kg 0.004 kg 0.004 kg

Front protective cap, IP 68

Additional Information

- For flat lense profil only
- When using the front protection cover the external sealing in the actuator has to be removed

Material	Colour	Optics	Part No.	Weight
Front protective cap				
Silicone	colourless	transparent	84-9103.7	0.001 kg

Legend frame

Additional Information

- For devices with front dimension Ø 25 mm, flush design
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Material	Colour	Mounting type	Part No.	Weight
Legend fra	ame				
30 x 50 x 0.75 mm	Aluminium	black anodized	adhesive	61-9980.0	0.001 kg

84 Accessories

Legend plate

Additional Information

- For legend frame Part No. 61-9980.0
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Material	Colour	Mounting type	Part No.	Weight
Legend pl	ate for legend frame				
14.5 x 23.5 mm	Aluminium	natural anodized	adhesive	704.968.0	0.001 kg
		black anodized	adhesive	704.968.1	0.001 kg

Blind plug, IP 65

Additional Information

- The dimensions of the mounting cut-outs are shown in the product details
- Please note that bigger minimum distances are necessary



Dimensions [mm]

Product attribute	Dimension	Mounting cut-out	Material	Colour	Part No.	Weight
Blind plug						
with this print version of the panel thickness is reduced to 2.5 mm max.	Ø 25 mm	Ø 22.5 mm	Plastic	black	61-9453.0	0.006 kg
Blind plug						
	Ø 36 mm	Ø 30.5 mm	Plastic	black	704.964.8	0.007 kg

Rear side

Illumination element, IP 40

Additional Information

- LED and built-in resistor included
- Standard version: Cable length 300 mm with insulated ferrule, plug-in terminal 2.8 x 0.8 mm
- Other options on request: Customisation of cable and connectors, rear side fully sealed (IP 67)
- Protection degree (rear side): IP 40, upgrade to IP 67 with plug Part No. 84-900 possible. With applications where strong vibrations occure, the plugs may become loose
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

Single-LED red

Single-LED orange

Single-LED yellow

Single-LED green

Single-LED blue

Single-LED white

24 VDC ±10 %

24 VDC ± 10 %

24 VDC ±10 %

24 VDC $\pm 10~\%$

24 VDC ±10 %

24 VDC $\pm 10~\%$

Protection degree	LED colour	Operating voltage	Operation current	Terminal	Part No.	Wiring diagram	Weight
Illu	mination element						
IP 40	Single-LED red	12 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.2320	1	0.005 kg
	Single-LED orange	12 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.3320	1	0.005 kg
	Single-LED yellow	12 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.4320	1	0.005 kg
	Single-LED green	12 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.5320	1	0.005 kg
	Single-LED blue	12 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.6320	1	0.005 kg
	Single-LED white	12 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.9320	1	0.005 kg
	Single-LED red	24 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.2620	1	0.005 kg
	Single-LED orange	24 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.3620	1	0.005 kg
	Single-LED yellow	24 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.4620	1	0.005 kg
	Single-LED green	24 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.5620	1	0.005 kg
	Single-LED blue	24 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.6620	1	0.005 kg
	Single-LED white	24 VDC ±10 %	10 mA	Plug 2.8 x 0.8 mm	84-8001.9620	1	0.005 kg
IIIu	mination element						
IP 40	Single-LED red	12 VDC ±10 %	10 mA	Flat ribbon cable	84-8001.2340	1	0.010 kg
	Single-LED orange	12 VDC ±10 %	10 mA	Flat ribbon cable	84-8001.3340	1	0.010 kg
	Single-LED yellow	12 VDC ±10 %	10 mA	Flat ribbon cable	84-8001.4340	1	0.010 kg
	Single-LED green	12 VDC ±10 %	10 mA	Flat ribbon cable	84-8001.5340	1	0.010 kg
	Single-LED blue	12 VDC ±10 %	10 mA	Flat ribbon cable	84-8001.6340	1	0.010 kg
	Single-LED white	12 VDC ±10 %	10 mA	Flat ribbon cable	84-8001.9340	1	0.010 kg

10 mA

10 mA

10 mA

10 mA

10 mA

10 mA

Flat ribbon cable

84-8001.2640

84-8001.3640

84-8001.4640

84-8001.5640

84-8001.6640

84-8001.9640

1

1

1

1

1

1

0.010 kg

0.010 kg

0.010 kg

0.010 kg

0.010 kg

0.010 kg





Wiring diagram 1

Illumination element bi-colour

Additional Information

- LED and built-in resistor included
- Standard version: Cable length 300 mm with insulated ferrule, plug-in terminal 2.8 x 0.8 mm
- Other options on request: Customisation of cable and connectors, rear side fully sealed (IP 67).
- Best illumination level will be reached with aluminium lens with spot, Part No. 84-7215.x00 and 84-7211.x00
- Protection degree (rear side): IP 40, upgrade to IP 67 with plug Part No. 84-900 possible. With applications where strong vibrations occure, the plugs may become loose
- Cabel connection IP 67, rear side fully sealed. The illumination element of the cable version cannot be disconnected from the actuator any longer
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

Protection degree	LED colour	Operating voltage	Operation current	Terminal	Part No.	Wiring diagram	Weight
	umination element wit	h bi-colour illumi	nation				
IP 40	Bi-colour LED red/green	24 VDC ±10 %	20 mA	Plug 2.8 x 0.8 mm	84-8005.8620	1	0.005 kg
	Bi-colour LED yellow/green	24 VDC ±10 %	20 mA	Plug 2.8 x 0.8 mm	84-8005.7620	1	0.005 kg
Illumination element with bi-colour illumination							
IP 67	Bi-colour LED yellow/green	24 VDC ±10 %	20 mA	Flat ribbon cable	84-8005.7640	2	0.011 kg
	Bi-colour LED red/green	24 VDC ±10 %	20 mA	Flat ribbon cable	84-8005.8640	2	0.011 kg



84 Accessories

Wiring diagram 1

3

4

Switching element PCB illuminative

Additional Information

- The customer has to decide what series resistor shall be used to the LED
- LED and mounting flange to be ordered separately



Dimensions [mm]

Contacts	Terminal	Switching action	Part No.	Compo- nent layout	Wiring diagram	Weight
Switching element	PCB mounting illuminative					
1 NO	PCB	В	92-851.342	3	1	0.001 kg

Contacts: NO = Normally open Switching action: B = Momentary The component layouts you will find from page 49



Illumination element PCB

Additional Information

- The customer has to decide what series resistor shall be used to the LED
- LED and mounting flange to be ordered separately



Dimensions [mm]

erminal	Part No.	Compo- nent layou	Weight
Illumination element PCB mounting			
CB	92-800.042	4	0.001 kg

The component layouts you will find from page 49

Mounting flange



Dimensions [mm]



Illumination

Single-LED, T1 Bi-Pin

Additional Information

- The customer has to decide what series resistor shall be used to the LED
- Luminosity and wave length scattering caused by LED manufacturing processes may cause slight variations in the illumination

LED colour	Forward voltage typ.	Lumi. intensity	Dom. wavelength	Part No.	Weight
Single-LE	D				
Single-LED red	2.1 VDC @ 20 mA	200 mcd	625 nm	10-2602.3202L	0.001 kg
Single-LED orange	2.1 VDC @ 20 mA	220 mcd	590 nm	10-2602.3203L	0.001 kg
Single-LED yellow	3.3 VDC @ 20 mA	500 mcd	570 nm	10-2602.3204L	0.001 kg
Single-LED green	3.5 VDC @ 20 mA	250 mcd	525 nm	10-2602.3205L	0.001 kg
Single-LED blue	3.5 VDC @ 20 mA	450 mcd	470 nm	10-2602.3206L	0.001 kg
Single-LED white	3.3 VDC @ 20 mA	600 mcd	x=0.29/y=0.31 nm	10-2602.3209L	0.001 kg

Bi-colour-LED, T1 Bi-Pin

Additional Information

- The customer has to decide what series resistor shall be used to the LED
- Luminosity and wave length scattering caused by LED manufacturing processes may cause slight variations in the illumination

Forward voltage typ.	Lumi. intensity	Dom. wavelength	Part No.	Weight
2.0/3.2 VDC @ 20 mA	380/650 mcd	628/525 nm	10-2603.320AL	0.001 kg
2.0/3.2 VDC @ 20 mA	480/380 mcd	588/525 nm	10-2603.320CL	0.001 kg
	Forward voltage typ. LED 2.0/3.2 VDC @ 20 mA 2.0/3.2 VDC @ 20 mA	Forward voltage typ. Lumi. intensity LED 2.0/3.2 VDC @ 20 mA 380/650 mcd 2.0/3.2 VDC @ 20 mA 480/380 mcd	Forward voltage typ.Lumi. intensityDom. wavelengthLED2.0/3.2 VDC @ 20 mA380/650 mcd628/525 nm2.0/3.2 VDC @ 20 mA480/380 mcd588/525 nm	Forward voltage typ. Lumi. intensity Dom. wavelength Part No. LED 2.0/3.2 VDC @ 20 mA 380/650 mcd 628/525 nm 10-2603.320AL 2.0/3.2 VDC @ 20 mA 480/380 mcd 588/525 nm 10-2603.320AL

Flat receptacle

Product attribute	Part No.	Weight
Flat receptacle		
2.8 x 0.5 mm plug-in terminal	31-946	0.001 kg

Insulation sleeve

Product attribute	Part No.	Weight
Insulation sleeve		
for flat receptacle 2.8 mm	31-929	0.001 kg

Mounting

Mounting tool

Product attribute	Part No.	Weight
Mounting tool		
for tightening or loosening the fixing nut, for emergency-stop and stop-switch	84-996	0.014 kg
Mounting tool	1	
for tightening or loosening of fixing nut, for Indicator and Pushbutton	84-997	0.027 kg

Dismantling tool

Additional Information

• For actuator dismantling of switching element, illumination element and mounting flange

Part No.	Weight
Combined dismantling tool	
84-918	0.008 kg

Drawings

Drawings



Drilling plan (element side)

A Fixing holes for mounting flange (84-960.0)



Component layout 3

Suppressor circuits

When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current flowing through the load.

Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric breakdown voltages of the circuit or parasitic elements of the coil. This voltage can be kilovolts in amplitude even when nominal circuit voltages are low (e.g. 12VDC) see Fig. 2.

To get an efficient protection, the free-wheeling diode must be connected as close as possible to the inductive load!



Note for soldering

Process parameter for wave soldering

Basic specification for wave soldering J-STD 75 W4C

Maximum temperature on the component side of the pcb (Temperature must not exceed during the entire processing)	120 °C
Preheating phase (t1 t2) Ramp up	70 120 sec typ. + 1°C/sec
Ramp up to maximum temperature (t2 t3)	not defined
Maximum temperature on the soldering side (Temp 3) Maximum time of soldering process (t3 t4)	250 °C 3 sec
Ramp down at 170 °C:	typ. –2 °C/sec

Application guidelines

Temperature curve wave soldering



Iron soldering

Basic specification for iron soldering IEC 60068-2-20

Maximum	temperature at tip of iron:	320 °C
Maximum	soldering time:	3 sec

Cleaning/Lacquering

The switching elements are not sealed. Cleaning up the PCB may damage the contacts in the switching elements. For this reason, the following points should be noted:

- When soldering make sure that the flux does not pass on the upper side of the PCB.
- When cleaning the PCB with detergents ensure that no dust or other debris may get inside of the switching elements.
- Ensure that no lacquer penetrates into the interior of the switching element when lacquering the PCB.

Storage of components

To obtain the optimum solderability of the components, the following points should be noted during storage:

- _ Do not store components in locations with high temperature or humidity.
- Do not expose components to corrosive gases.
- Avoid direct sunlight for a long period.

Arrangement mounting flange for switching- and illumination element, PCB mounting



The arrangement of the mounting flanges and their number is determined by the size of the front panel or PCB. To ensure uniform, tactile switching, we recommend a layout of the flanges as per adjacent sketch.

For large PCBs with several switching elements we recommend the following procedure:

- 1. Fit the actuator to the front panel.
- 2. Clip the mounting flange to the rear of the intended actuator.
- 3. Screw the PCB with the components soldered to it to the assembled mounting flange.

This arrangement applies to PCBs 1.6 mm thick.

Dismantling mounting flange

The tool Part No. 84-998 must be used for removing the mounting flange from the actuator.

Before removing the flange, the PCB fixing srews must be loosened.