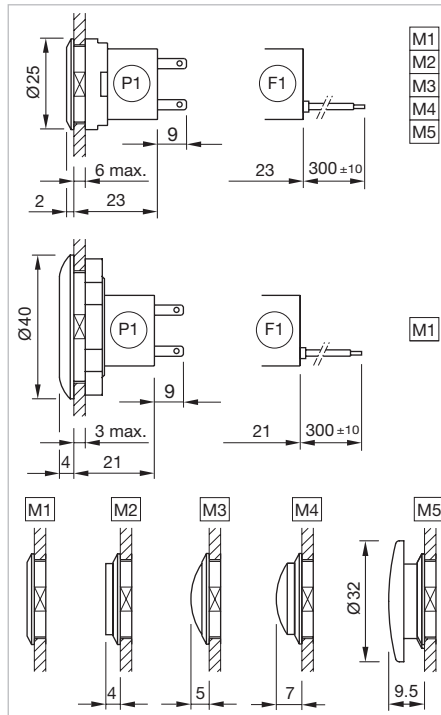


84 Flush design

Pushbutton standard

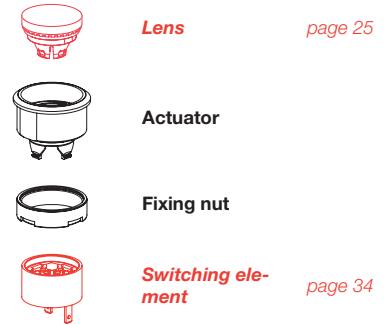


Product can differ from the current configuration.



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,
 M3 = Lens konvexe level with bezel,
 M4 = Lens konvexe raised above bezel,
 M5 = Mushroom-head cap

Equipment consisting of (schematic overview)

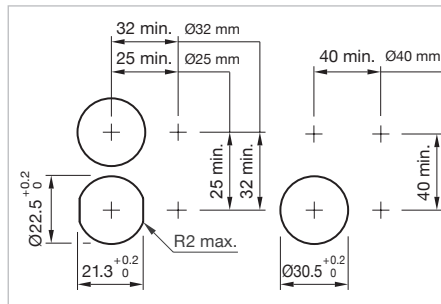


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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


Additional Information

- Non-illuminated lens and bezel
- The colour of anodized aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator standard, Front dimension Ø 40 mm					
IP 67	Aluminium natural anodized	B	84-1221.7	1	0.022 kg

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
 <p>Pushbutton actuator standard, Front dimension Ø 25 mm</p>					
IP 40	Plastic black	B	84-2101.0	1	0.004 kg
IP 67	Plastic black	B	84-1101.0	1	0.003 kg
	Aluminium black anodized	B	84-1201.0	1	0.008 kg
	Aluminium red anodized	B	84-1201.2	1	0.008 kg
	Aluminium gold anodized	B	84-1201.4	1	0.008 kg
	Aluminium olive-green anodized	B	84-1201.5	1	0.008 kg
	Aluminium blue anodized	B	84-1201.6	1	0.008 kg
	Aluminium natural anodized	B	84-1201.7	1	0.008 kg

Switching action: B = Momentary

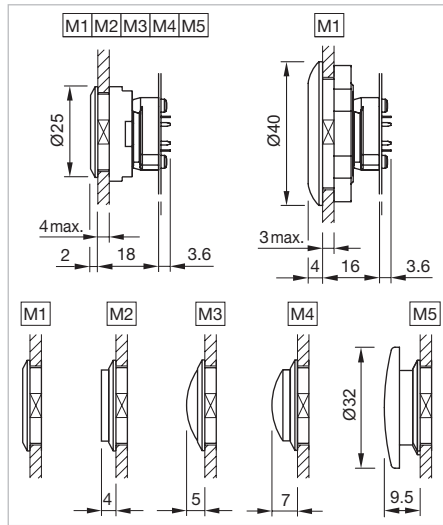


84 Flush design

Pushbutton PCB standard



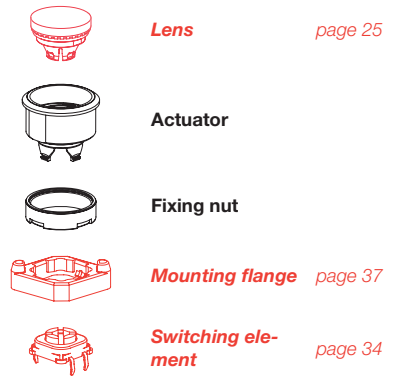
Product can differ from the current configuration.



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,
 M3 = Lens konvexe level with bezel,
 M4 = Lens konvexe raised above bezel,
 M5 = Mushroom-head cap

Equipment consisting of (schematic overview)

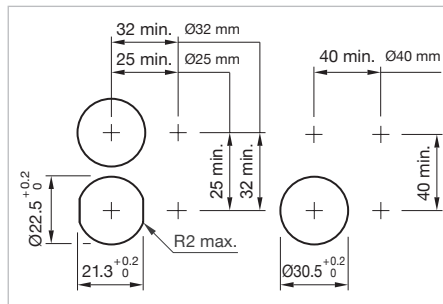


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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


Additional Information

- Non-illuminated lens and bezel
- The colour of anodized aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator PCB standard, Front dimension Ø 40 mm					
IP 67	Aluminium natural anodized	B	84-1221.7	1	0.022 kg

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
 <p>Pushbutton actuator PCB standard, Front dimension Ø 25 mm</p>					
IP 40	Plastic black	B	84-2101.0	1	0.004 kg
IP 67	Plastic black	B	84-1101.0	1	0.003 kg
	Aluminium black anodized	B	84-1201.0	1	0.008 kg
	Aluminium red anodized	B	84-1201.2	1	0.008 kg
	Aluminium gold anodized	B	84-1201.4	1	0.008 kg
	Aluminium olive-green anodized	B	84-1201.5	1	0.008 kg
	Aluminium blue anodized	B	84-1201.6	1	0.008 kg
	Aluminium natural anodized	B	84-1201.7	1	0.008 kg




Switching action: B = Momentary



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
 <p>Lens plastic with symbol</p>					
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	Ring	84-7111.601	0.002 kg
	colourless transparent	level with bezel	Ring	84-7111.701	0.002 kg
 <p>Lens plastic with symbol</p>					
Ø 19.7 mm	red transparent	level with bezel	ON/OFF	84-7111.202	0.002 kg
	green transparent	level with bezel	ON/OFF	84-7111.502	0.002 kg
	blue transparent	level with bezel	ON/OFF	84-7111.602	0.002 kg
	colourless transparent	level with bezel	ON/OFF	84-7111.702	0.002 kg
 <p>Lens plastic with symbol</p>					
Ø 19.7 mm	red transparent	level with bezel	Stand by	84-7111.203	0.002 kg
	green transparent	level with bezel	Stand by	84-7111.503	0.002 kg
	blue transparent	level with bezel	Stand by	84-7111.603	0.002 kg
	colourless transparent	level with bezel	Stand by	84-7111.703	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
 <p>Lens metal</p>					
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

Product attribute	Dimension	Lens	Mounting type	Part No.	Weight
flat	Ø 19.7 mm	Aluminium gold anodized	level with bezel	84-7201.400	0.003 kg
		Aluminium olive-green anodized	level with bezel	84-7201.500	0.003 kg
		Aluminium blue anodized	level with bezel	84-7201.600	0.003 kg
		Aluminium natural anodized	level with bezel	84-7201.800	0.003 kg
		Aluminium black anodized	raised above bezel	84-7205.000	0.003 kg
		Aluminium red anodized	raised above bezel	84-7205.200	0.003 kg
		Aluminium gold anodized	raised above bezel	84-7205.400	0.003 kg
		Aluminium olive-green anodized	raised above bezel	84-7205.500	0.003 kg
		Aluminium blue anodized	raised above bezel	84-7205.600	0.003 kg
		Aluminium natural anodized	raised above bezel	84-7205.800	0.003 kg
 Lens metal					
convex (domed)	Ø 19.7 mm	Aluminium black anodized	level with bezel	84-7202.000	0.003 kg
		Aluminium red anodized	level with bezel	84-7202.200	0.003 kg
		Aluminium gold anodized	level with bezel	84-7202.400	0.003 kg
		Aluminium olive-green anodized	level with bezel	84-7202.500	0.003 kg
		Aluminium blue anodized	level with bezel	84-7202.600	0.003 kg
		Aluminium natural anodized	level with bezel	84-7202.800	0.003 kg

Lens for halo illumination

Additional Information





- Lens profile flat or convex (domed)
- The colour of anodized aluminium parts can vary due to technical production reasons

Product attribute	Dimension	Lens	Mounting type	Part No.	Weight
 Lens metal for halo illumination					
flat	Ø 19.7 mm	Aluminium black anodized	raised above bezel	84-7205.000A	0.003 kg
		Aluminium red anodized	raised above bezel	84-7205.200A	0.003 kg
		Aluminium gold anodized	raised above bezel	84-7205.400A	0.003 kg
		Aluminium olive-green anodized	raised above bezel	84-7205.500A	0.003 kg
		Aluminium blue anodized	raised above bezel	84-7205.600A	0.003 kg
		Aluminium natural anodized	raised above bezel	84-7205.800A	0.003 kg
 Lens metal for halo illumination					
convex (domed)	Ø 19.7 mm	Aluminium black anodized	raised above bezel	84-7202.000A	0.004 kg
		Aluminium red anodized	raised above bezel	84-7202.200A	0.004 kg
		Aluminium gold anodized	raised above bezel	84-7202.400A	0.004 kg
		Aluminium olive-green anodized	raised above bezel	84-7202.500B	0.004 kg
		Aluminium blue anodized	raised above bezel	84-7202.600A	0.004 kg
		Aluminium natural anodized	raised above bezel	84-7202.800A	0.004 kg


Lens for stop request pushbutton

Additional Information

- Lens profile flat
- With raised labelling symbol, TSI compliant
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Lens	Mounting type	Symbol	Part No.	Weight
	Lens metal for halo illumination with raised symbol				
Ø 19.7 mm	Aluminium natural anodized	raised above bezel	Door open	84-7205.804A	0.003 kg
	Lens metal for halo illumination with raised symbol				
Ø 19.7 mm	Aluminium natural anodized	raised above bezel	Wheelchair	84-7205.805A	0.003 kg
	Lens metal for halo illumination with raised symbol				
Ø 19.7 mm	Aluminium natural anodized	raised above bezel	Baby carriage	84-7205.806A	0.003 kg
	Lens metal for halo illumination with raised symbol				
Ø 19.7 mm	Aluminium natural anodized	raised above bezel	Bell	84-7205.808A	0.003 kg


Mushroom-head cap

Product attribute	Mushroom-head cap	Part No.	Weight
 <p>Mushroom-head cap, Front dimension Ø 32 mm</p>			
illuminative	Plastic blue	84-7114.600A	0.004 kg
non-illuminative	Plastic black	84-7124.000A	0.004 kg
	Plastic red	84-7124.200A	0.004 kg
	Plastic yellow	84-7124.400A	0.004 kg
	Plastic green	84-7124.500A	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
 <p>Front protective cap</p>				
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
 <p>Legend frame</p>					
30 x 50 x 0.75 mm	Aluminium	black anodized	adhesive	61-9980.0	0.001 kg

84 Accessories

Legend plate

Additional Information

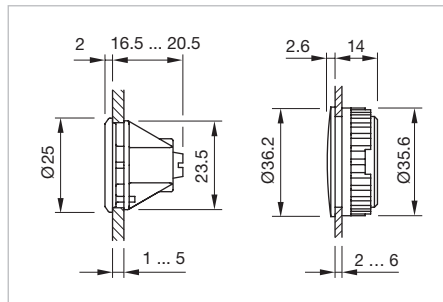
- For legend frame Part No. 61-9980.0
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Material	Colour	Mounting type	Part No.	Weight
 <p>Legend plate for legend frame</p>	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

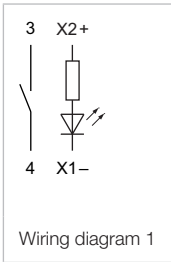
- The dimensions of the mounting cut-outs are shown in the product details
- Please note that bigger minimum distances are necessary



Dimensions [mm]


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

84 Accessories

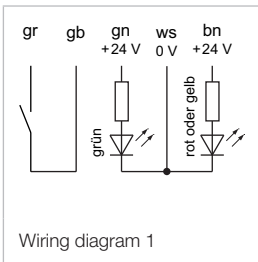


Switching element bi-colour

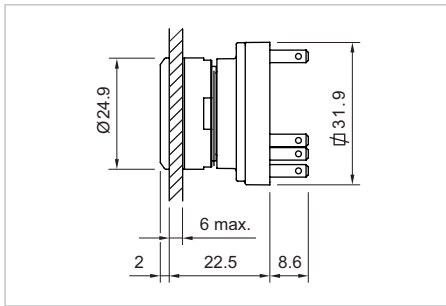
- Additional Information**
- LED and built-in resistor included
 - Protection degree IP 67, rear side fully sealed. The switching element cannot be disconnected from the actuator any longer
 - Best illumination level will be reached with aluminium lens with spot, Part No. 84-7215.x00 and 84-7211.x00
 - Standard version: Cable length 300 mm with insulated ferrule
 - Other options on request: Customisation of cable and connectors
 - 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	Contacts	Terminal	Part No.	Wiring diagram	Weight
 <p>Switching element with bi-colour illumination</p>								
IP 67	Bi-colour LED red/green	24 VDC ±10 %	20 mA	1 NO	Flat ribbon cable	84-8515.8640	1	0.015 kg
	Bi-colour LED yellow/green	24 VDC ±10 %	20 mA	1 NO	Flat ribbon cable	84-8515.7640	1	0.015 kg


Contacts: NO = Normally open



Switching element Halo Compact



Dimensions [mm]



LED-Farbe	Contacts	Terminal	Part No.	Wiring diagram	Weight
 <p>Switching element Halo Compact</p>					
red	1 S	Solder/Plug-in 2.8 x 0.8 mm	84-8716.2620	6	0.013 kg
yellow	1 S	Solder/Plug-in 2.8 x 0.8 mm	84-8716.4620	6	0.013 kg
green	1 S	Solder/Plug-in 2.8 x 0.8 mm	84-8716.5620	6	0.013 kg
blue	1 S	Solder/Plug-in 2.8 x 0.8 mm	84-8716.6620	6	0.013 kg
white	1 S	Solder/Plug-in 2.8 x 0.8 mm	84-8716.9620	6	0.013 kg
Bi-colour LED red/green	1 S	Solder/Plug-in 2.8 x 0.8 mm	84-8716.8620	6	0.013 kg

Contacts: NO = Normally open
The component layouts you will find from page 49

Switching element without illumination

Additional Information

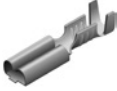
- Standard version: Cable length 300 mm with insulated ferrule, plug-in terminal 2.8 x 0.8 mm
- Other options on request: Customisation of cable and connectors, rear side fully sealed (IP 67)
- Protection degree (rear side): IP 40, upgrade to IP 67 with plug Part No. 84-900 possible. With applications where strong vibrations occur, the plugs may become loose

Protection degree	Contacts	Terminal	Part No.	Wiring diagram	Weight
 <p>Switching element without illumination</p>					
IP 40	1 NO	Plug 2.8 x 0.8 mm	84-8510.0020	1	0.005 kg
 <p>Switching element without illumination</p>					
IP 40	1 NO	Flat ribbon cable	84-8510.0040	1	0.010 kg


Contacts: NO = Normally open

84 Accessories

Flat receptacle

Product attribute	Part No.	Weight
 <p>Flat receptacle</p>		
2.8 x 0.8 mm plug-in terminal	84-9420	0.001 kg


Insulation sleeve

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

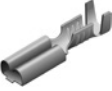
Plug

Additional Information


- For back protection IP67 of switching elements and illumination elements. Two plugs are necessary per element

Part No.	Weight
 <p>Plug</p>	
84-900	0.001 kg

Flat receptacle



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

Insulation sleeve

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

Mounting


Mounting tool

Product attribute	Part No.	Weight
 <p>Mounting tool</p>		
for tightening or loosening the fixing nut, for emergency-stop and stop-switch	84-996	0.014 kg
 <p>Mounting tool</p>		
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
 <p>Combined dismantling tool</p>	
84-918	0.008 kg