Series 84

Characteristics
The compact 22.5 mm Series 84 is especially suited for:

- Flush design
- Raised design
- PCB mounting

The extremely small mounting depth makes this series highly suited for installation in flat, narrow casings. In combination with PCB fitting, Series 84 offers optional HALO illumination with attractive combination options and a wide variety of designs.

Functions
The Series 84 incorporates the following functions:

- Indicator
- Pushbutton
- Illuminated pushbutton
- E-STOP switch

Market segments
The EAO Series 84 is especially suited for applications in the segments:

- Public transport
- Machinery and Automation
- Construction machines and special-purpose vehicles
- Lifting and moving
- Panel building
- Medicinal technology
- Laboratory and measuring equipment

Please refer to the EAO website to obtain detailed information regarding this series **www.products.eao.com**
Configure a product to your exact needs and request a quotation.

Overview

Flush design	
Indicator	758
Illuminated pushbutton	760
Pushbutton	764
Indicator with halo illumination	768
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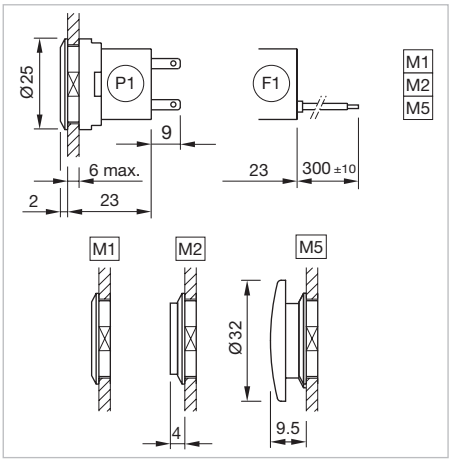
Indicator standard

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

Equipment consisting of (schematic overview)

Lens *page 778*

Actuator

Fixing nut

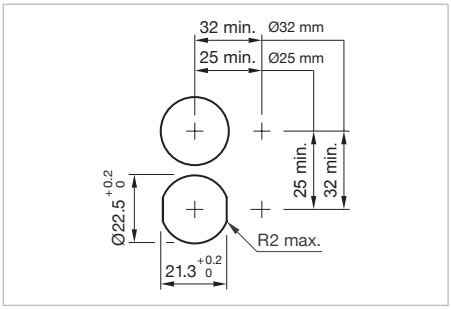
Illumination element *page 785*

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 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

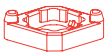
Indicator PCB standard

Equipment consisting of (schematic overview)

Lens *page 778*

Actuator

Fixing nut



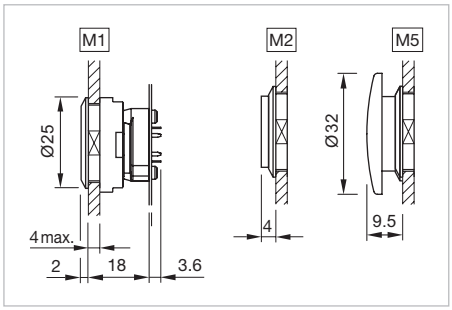
Mounting flange *page 791*

LED *page 793*

Illumination element *page 790*

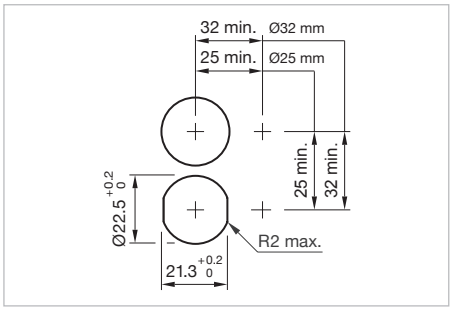
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



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

Product can differ from the current configuration.



Mounting cut-outs [mm]

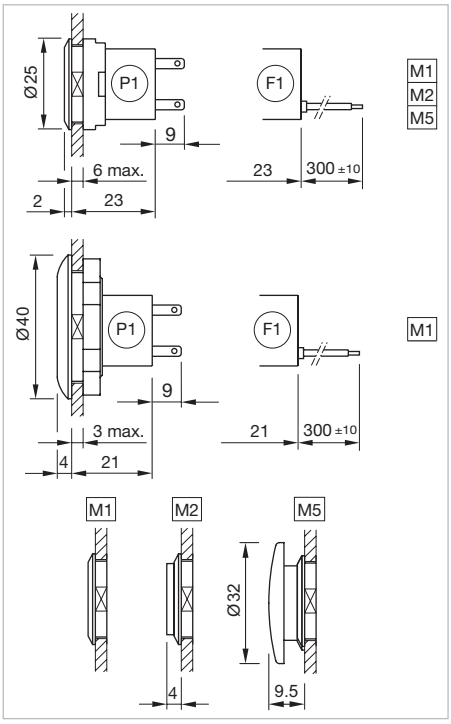
Additional Information

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

Front protection	Front ring	Part No.	Weight
Indicator actuator PCB standard, Front 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

Illuminated 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,
M5 = Mushroom-head cap

Equipment consisting of (schematic overview)

Lens *page 778*

Actuator

Fixing nut

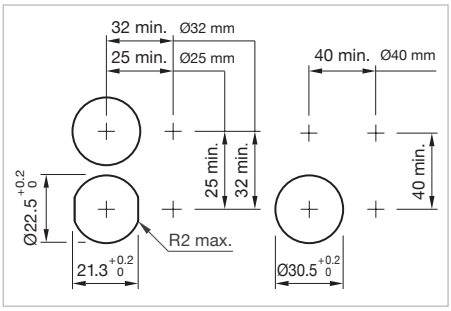
Switching element *page 787*

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

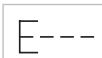


Mounting cut-outs [mm]

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
Illuminated pushbutton standard, Front dimension Ø 40 mm					
IP 67	Aluminium natural anodized	B	**84-1221.7**	1	0.022 kg
Illuminated pushbutton standard, Front dimension Ø 25 mm					
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

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
IP 67	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

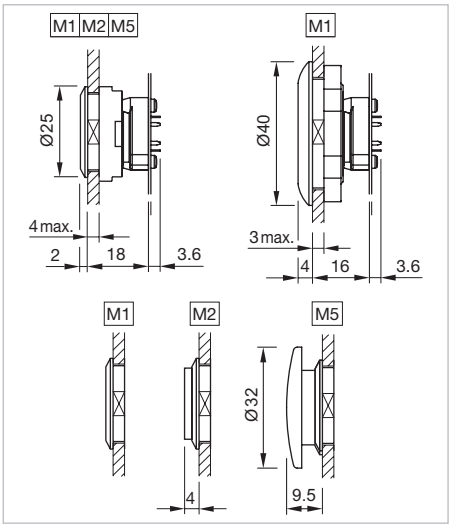
Switching action: B = Momentary



Wiring diagram 1

Illuminated pushbutton PCB standard

Product can differ from the current configuration.



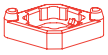
Dimensions [mm]
M1 = Lens level with bezel,
M2 = Lens raised above bezel,
M5 = Mushroom-head cap

Equipment consisting of (schematic overview)

Lens *page 778*

Actuator

Fixing nut


Mounting flange *page 791*

LED *page 793*

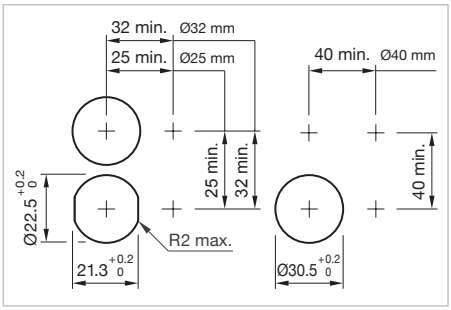
Switching element *page 789*

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

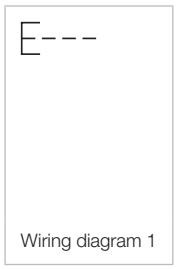
- Illuminated lens, non-illuminated bezel
- The colour of anodized aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]

Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
Illuminated pushbutton actuator PCB standard, Front dimension Ø 40 mm					
IP 67	Aluminium natural anodized	B	**84-1221.7**	1	0.022 kg
Illuminated pushbutton actuator PCB standard, Front dimension Ø 25 mm					
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

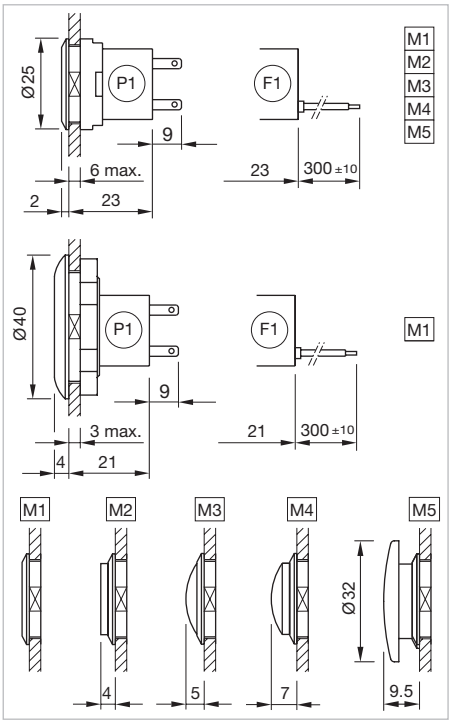
Switching action: B = Momentary



Wiring diagram 1

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 convexe raised above bezel,
M5 = Mushroom-head cap

Equipment consisting of (schematic overview)

Lens *page 779*

Actuator

Fixing nut

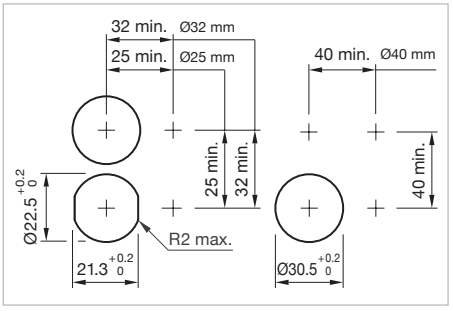
Switching element *page 789*

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

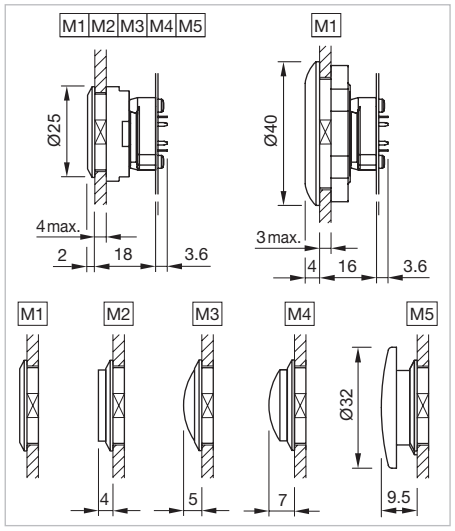
Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator standard, Front dimension Ø 25 mm					
IP 40	Plastic black	B	**84-2101.0**	1	0.004 kg
IP 67	Plastic black	B	**84-1101.0**	1	0.003 kg
	Aluminium black anodized	B	**84-1201.0**	1	0.008 kg
	Aluminium red anodized	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

Wiring diagram 1

Pushbutton PCB standard

Product can differ from the current configuration.



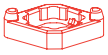
Dimensions [mm]
F1 = Flat ribbon cable,
P1 = Plug-in terminal 2.8 x 0.8 mm,
M1 = Lens level with bezel,
M2 = Lens raised above bezel,
M3 = Lens konvexe level with bezel,
M4 = Lens convexe raised above bezel,
M5 = Mushroom-head cap

Equipment consisting of (schematic overview)

Lens *page 779*

Actuator

Fixing nut


Mounting flange *page 791*

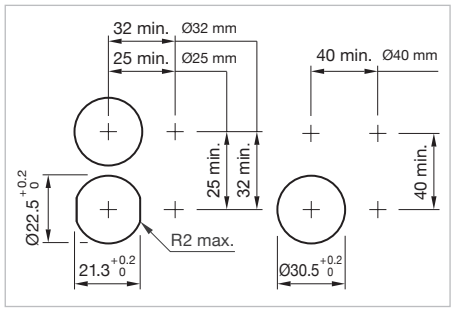
Switching element *page 789*

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

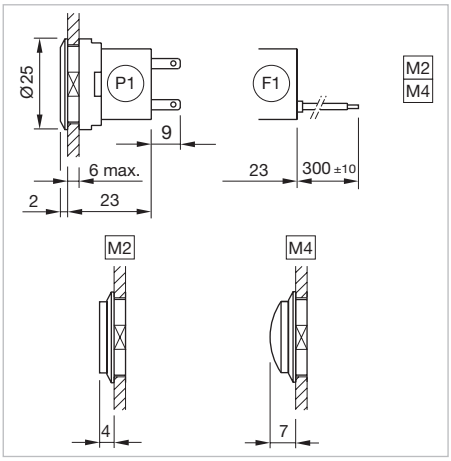
Front protection	Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator PCB standard, Front dimension Ø 25 mm					
IP 40	Plastic black	B	**84-2101.0**	1	0.004 kg
IP 67	Plastic black	B	**84-1101.0**	1	0.003 kg
	Aluminium black anodized	B	**84-1201.0**	1	0.008 kg
	Aluminium red 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

Wiring diagram 1

Indicator with halo illumination standard, IP 67

Product can differ from the current configuration.



Dimensions [mm]
F1 = Flat ribbon cable,
P1 = Plug-in terminal 2.8 x 0.8 mm,
M2 = Lens raised above bezel,
M4 = Lens convexe raised above bezel

Equipment consisting of (schematic overview)

Lens *page 780*

Actuator

Fixing nut

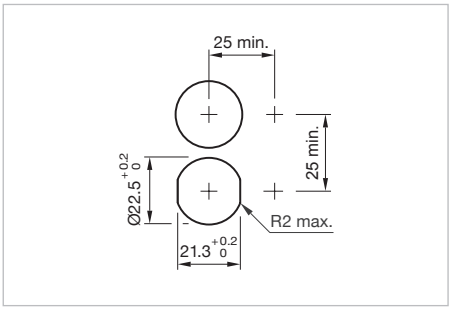
Illumination element *page 785*

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



Mounting cut-outs [mm]

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

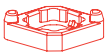
Indicator with halo illumination PCB standard, IP 67

Equipment consisting of (schematic overview)

Lens *page 780*

Actuator

Fixing nut

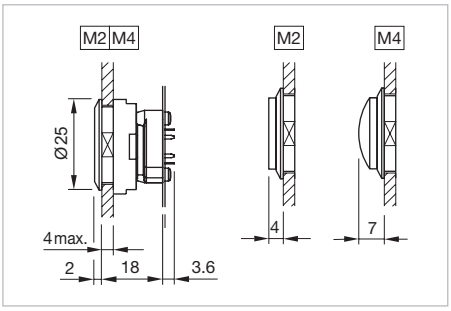

Mounting flange *page 791*

LED *page 793*

Illumination element *page 790*

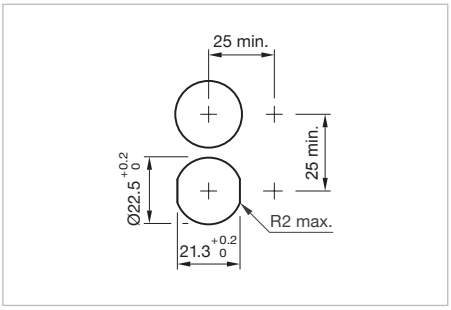
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



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

Product can differ from the current configuration.



Mounting cut-outs [mm]

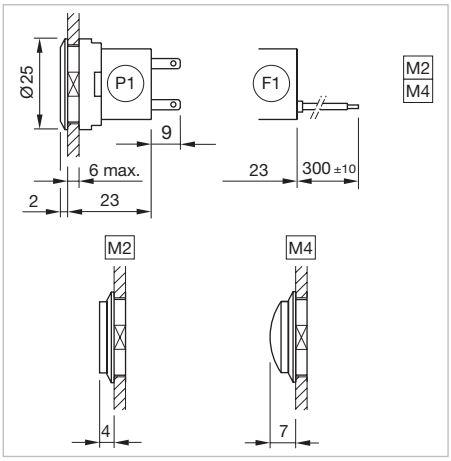
Additional Information

- 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

Pushbutton actuator with halo illumination standard, IP 67

Product can differ from the current configuration.



Dimensions [mm]
F1 = Flat ribbon cable,
P1 = Plug-in terminal 2.8 x 0.8 mm,
M2 = Lens raised above bezel,
M4 = Lens convexe raised above bezel

Equipment consisting of (schematic overview)

Lens *page 780*

Actuator

Fixing nut

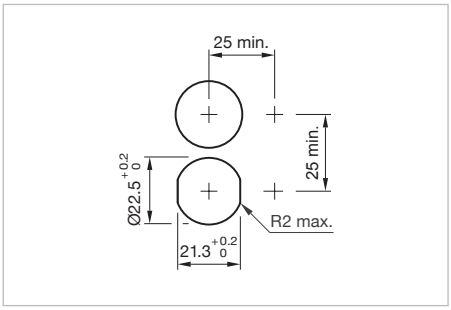
Switching element *page 787*

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



Mounting cut-outs [mm]

Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator with halo illumination standard, Front dimension Ø 25 mm				
Plastic colourless translucent	B	**84-1091.7**	1	0.006 kg

Switching action: B = Momentary

Wiring diagram 1

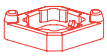
Pushbutton with halo illumination PCB standard, IP 67

Equipment consisting of (schematic overview)

Lens *page 780*

Actuator

Fixing nut

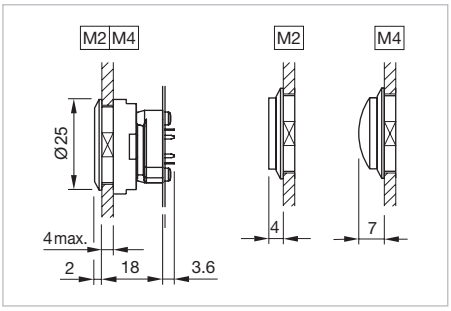

Mounting flange *page 791*

LED *page 793*

Switching element *page 789*

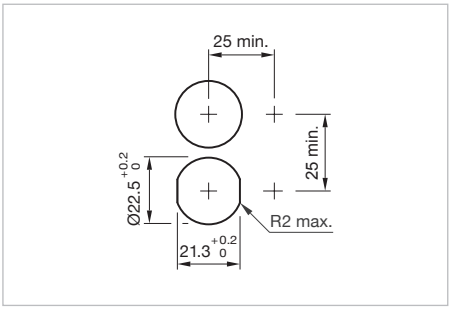
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



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

Product can differ from the current configuration.



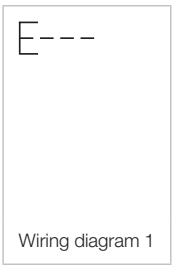
Mounting cut-outs [mm]

Additional Information

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

Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator with halo illumination PCB standard, Front dimension Ø 25 mm				
Plastic colourless translucent	B	**84-1091.7**	1	0.006 kg

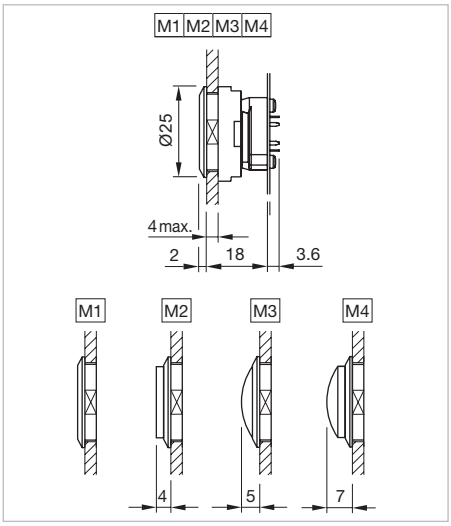
Switching action: B = Momentary



Wiring diagram 1

Indicator with halo illumination (multi-colour) PCB, 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

Equipment consisting of (schematic overview)

Lens *page 778*

Actuator

Befestigungs-mutter

Mounting flange *page 791*

Single-LED *page 793*

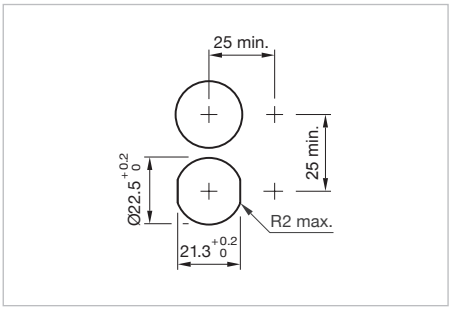
Illumination element *page 790*

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



Mounting cut-outs [mm]

Front ring	Part No.	Weight
Indicator actuator with halo illumination (multi-colour) PCB, Front dimension Ø 25 mm		
Plastic colourless transparent	**84-0080.7**	0.006 kg

Pushbutton actuator with halo illumination (multi-colour) PCB, IP 67

Equipment consisting of (schematic overview)

Lens *page 778*

Actuator

Fixing nut

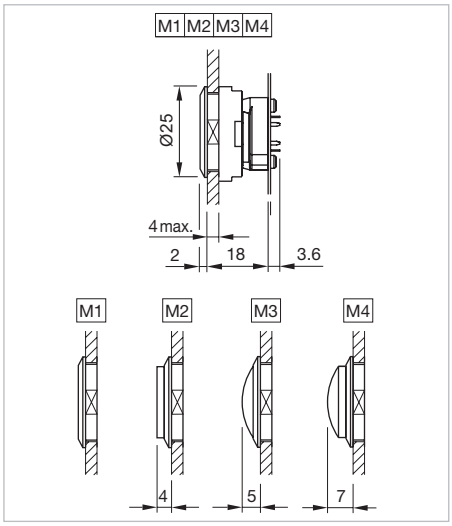
Mounting flange *page 791*

LED *page 793*

Switching element *page 789*

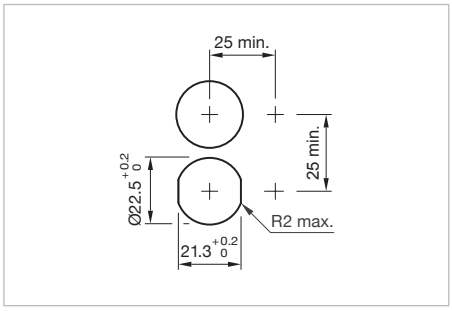
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



Dimensions [mm]
M1 = Lens level with bezel,
M2 = Lens raised above bezel,
M3 = Lens konvexe level with bezel,
M4 = Lens convexe raised above bezel

Product can differ from the current configuration.



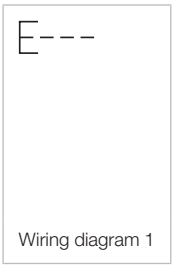
Mounting cut-outs [mm]

Additional Information

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

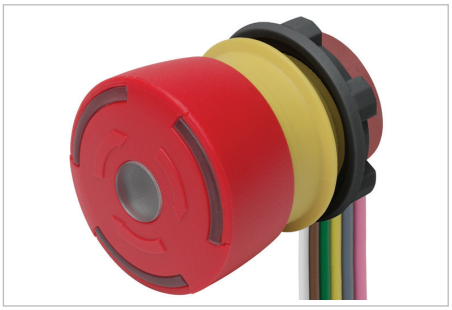
Front ring	Switching action	Part No.	Wiring diagram	Weight
Pushbutton actuator with halo illumination (multi-colour) PCB, Front dimension Ø 25 mm				
Plastic colourless transparent	B	**84-1081.7**	1	0.006 kg

Switching action: B = Momentary

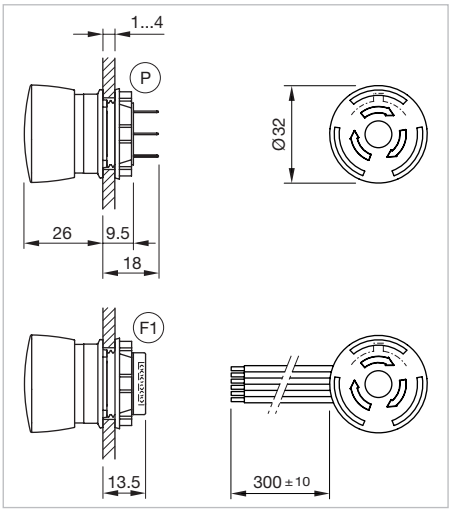


Wiring diagram 1

Emergency-stop switch complete, foolproof EN IEC 60947-5-5, IP 65

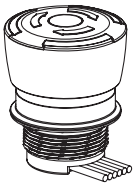


Product can differ from the current configuration.

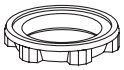


Dimensions [mm]
F1 = Flat ribbon cable,
P = Plug-in terminal 2.8 x 0.5 mm

Equipment consisting of (schematic overview)



Actuator

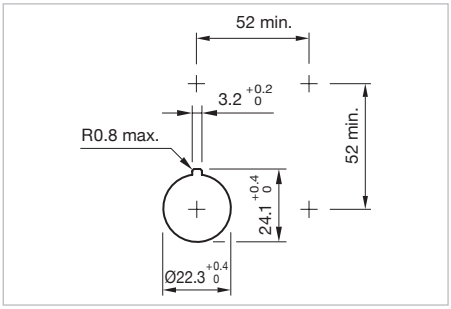


Fixing nut

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

Additional Information

- Lens plastic red
- Switching action maintain
- Twist to unlock clockwise
- Application as per DIN EN ISO 13850 and EN 60204-1
- Standard version: Flat ribbon-cable length 300 mm or plug-in terminal 2.8 x 0.5 mm
- Other options on request: Customisation of flat ribbon-cable and connectors
- Luminosity and wave length scattering caused by LED manufacturing processes may cause slight variations in the illumination



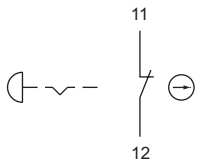
Mounting cut-outs [mm]

Product attribute	LED colour	Contacts	Terminal	Part No.	Compo-nent layout	Wiring diagram	Weight
Emergency-stop switch complete, foolproof EN IEC 60947-5-5, Front dimension Ø 32 mm							
Position indication ring green		1 NC	Flat ribbon cable	**84-5120.0040**	1	1	0.036 kg
		1 NC + 1 NO	Flat ribbon cable	**84-5130.0040**	1	2	0.036 kg
		2 NC	Flat ribbon cable	**84-5140.0040**	1	3	0.036 kg
	Single-LED red	1 NC	Flat ribbon cable	**84-5121.2B40**	1	4	0.036 kg
		1 NC + 1 NO	Flat ribbon cable	**84-5131.2B40**	1	5	0.036 kg
		2 NC	Flat ribbon cable	**84-5141.2B40**	1	6	0.036 kg
Position indication ring black		1 NC	Flat ribbon cable	**84-5020.0040**	1	1	0.036 kg
		1 NC + 1 NO	Flat ribbon cable	**84-5030.0040**	1	2	0.036 kg
		2 NC	Flat ribbon cable	**84-5040.0040**	1	3	0.036 kg
	Single-LED red	1 NC	Flat ribbon cable	**84-5021.2B40**	1	4	0.036 kg
		1 NC + 1 NO	Flat ribbon cable	**84-5031.2B40**	1	5	0.036 kg
		2 NC	Flat ribbon cable	**84-5041.2B40**	1	6	0.036 kg

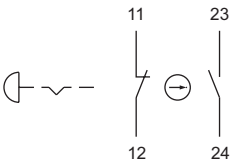
Emergency-stop switch complete, foolproof EN IEC 60947-5-5, Front dimension Ø 32 mm

Product attribute	LED colour	Contacts	Terminal	Part No.	Component layout	Wiring diagram	Weight
Position indication ring green		1 NC	Plug 2.8 x 0.5 mm	**84-5120.0020**	2	1	0.028 kg
		1 NC + 1 NO	Plug 2.8 x 0.5 mm	**84-5130.0020**	2	2	0.028 kg
		2 NC	Plug 2.8 x 0.5 mm	**84-5140.0020**	2	3	0.028 kg
	Single-LED red	1 NC	Plug 2.8 x 0.5 mm	**84-5121.2B20**	2	3	0.028 kg
		1 NC + 1 NO	Plug 2.8 x 0.5 mm	**84-5131.2B20**	2	5	0.028 kg
		2 NC	Plug 2.8 x 0.5 mm	**84-5141.2B20**	2	6	0.028 kg
Position indication ring black		1 NC	Plug 2.8 x 0.5 mm	**84-5020.0020**	2	1	0.028 kg
		1 NC + 1 NO	Plug 2.8 x 0.5 mm	**84-5030.0020**	2	2	0.028 kg
		2 NC	Plug 2.8 x 0.5 mm	**84-5040.0020**	2	3	0.028 kg
	Single-LED red	1 NC	Plug 2.8 x 0.5 mm	**84-5021.2B20**	2	4	0.028 kg
		1 NC + 1 NO	Plug 2.8 x 0.5 mm	**84-5031.2B20**	2	5	0.028 kg
		2 NC	Plug 2.8 x 0.5 mm	**84-5041.2B20**	2	6	0.028 kg

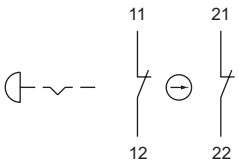
Contacts: NC = Normally closed, NO = Normally open
The component layouts you will find from page 803



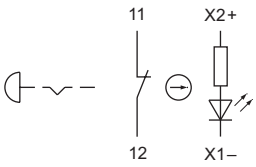
Wiring diagram 1



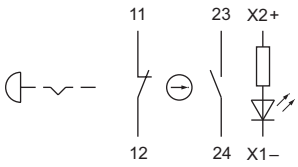
Wiring diagram 2



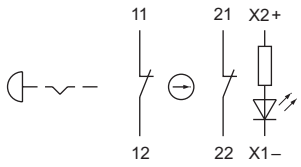
Wiring diagram 3



Wiring diagram 4

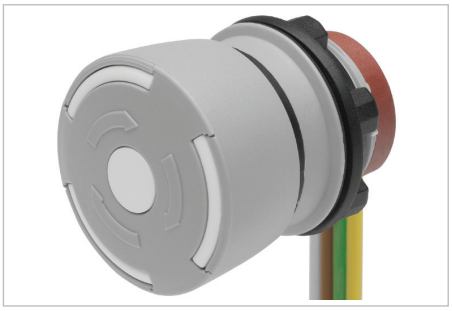


Wiring diagram 5

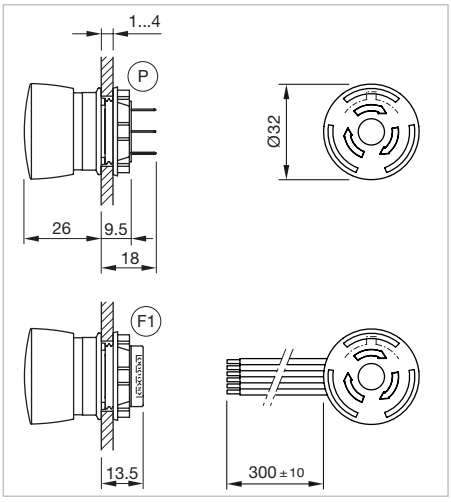


Wiring diagram 6

Stop switch complete grey, IP 65

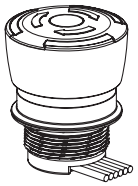


Product can differ from the current configuration.

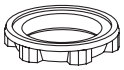


Dimensions [mm]
F1 = Flat ribbon cable,
P = Plug-in terminal 2.8 x 0.5 mm

Equipment consisting of (schematic overview)



Actuator

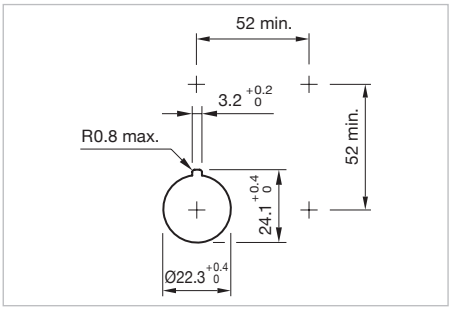


Fixing nut

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

Additional Information

- Lens plastic grey
- Switching action maintain
- Position indication ring black
- Twist to unlock clockwise
- Standard version: Flat ribbon-cable length 300 mm or plug-in terminal 2.8 x 0.5 mm
- Other options on request: Customisation of flat ribbon-cable and connectors
- Luminosity and wave length scattering caused by LED manufacturing processes may cause slight variations in the illumination

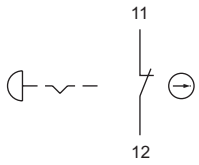


Mounting cut-outs [mm]

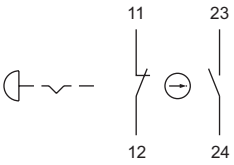
LED colour	Contacts	Terminal	Part No.	Compo-nent layout	Wiring diagram	Weight
Stop switch complete grey, Front dimension Ø 32 mm						
	1 NC	Flat ribbon cable	**84-6820.0040**	1	1	0.036 kg
	1 NC + 1 NO	Flat ribbon cable	**84-6830.0040**	1	2	0.036 kg
	2 NC	Flat ribbon cable	**84-6840.0040**	1	3	0.036 kg
Single-LED red	1 NC	Flat ribbon cable	**84-6821.2B40**	1	4	0.036 kg
	1 NC + 1 NO	Flat ribbon cable	**84-6831.2B40**	1	5	0.036 kg
	2 NC	Flat ribbon cable	**84-6841.2B40**	1	6	0.036 kg

LED colour	Contacts	Terminal	Part No.	Compo-nent layout	Wiring diagram	Weight
Stop switch complete grey, Front dimension Ø 32 mm						
	1 NC	Plug 2.8 x 0.5 mm	**84-6820.0020**	2	1	0.028 kg
	1 NC + 1 NO	Plug 2.8 x 0.5 mm	**84-6830.0020**	2	2	0.028 kg
	2 NC	Plug 2.8 x 0.5 mm	**84-6840.0020**	2	3	0.028 kg
Single-LED red	1 NC	Plug 2.8 x 0.5 mm	**84-6821.2B20**	2	4	0.028 kg
	1 NC + 1 NO	Plug 2.8 x 0.5 mm	**84-6831.2B20**	2	5	0.028 kg
	2 NC	Plug 2.8 x 0.5 mm	**84-6841.2B20**	2	6	0.028 kg

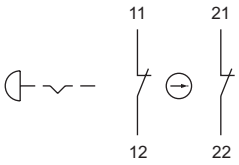
Contacts: NC = Normally closed, NO = Normally open
The component layouts you will find from page 803



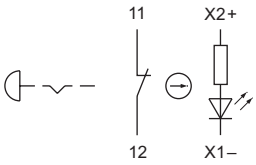
Wiring diagram 1



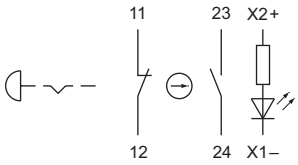
Wiring diagram 2



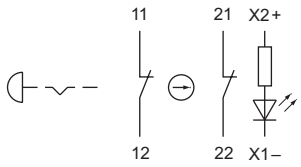
Wiring diagram 3



Wiring diagram 4



Wiring diagram 5



Wiring diagram 6

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
		black opaque	raised above bezel	**84-7125.000**	0.001 kg
non-illuminative	Ø 19.7 mm	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
Lens 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	Ring	**84-7111.601**	0.002 kg
	colourless transparent	level with bezel	Ring	**84-7111.701**	0.002 kg
Lens plastic with symbol					
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
Lens plastic with symbol					
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
Lens metal					
flat	Ø 25 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

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 metall 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 metall 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

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 metal 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 dimension Ø 32 mm			
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
	Plastic blue	**84-7124.600A**	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 frame					
30 x 50 x 0.75 mm	Aluminium	black anodized	adhesive	**61-9980.0**	0.001 kg

Legend plate

Additional Information

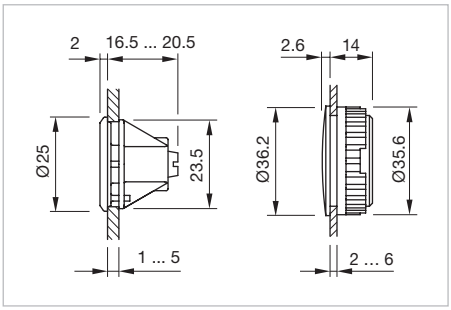
- For legend frame Part No. 61-9980.0
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Material	Colour	Mounting type	Part No.	Weight
Legend plate 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

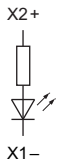
Rear side

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

Protection degree	LED colour	Operating voltage	Operation current	Terminal	Part No.	Wiring diagram	Weight
Illumination 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
Illumination 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
	Single-LED red	24 VDC ±10 %	10 mA	Flat ribbon cable	**84-8001.2640**	1	0.010 kg
	Single-LED orange	24 VDC ±10 %	10 mA	Flat ribbon cable	**84-8001.3640**	1	0.010 kg
	Single-LED yellow	24 VDC ±10 %	10 mA	Flat ribbon cable	**84-8001.4640**	1	0.010 kg
	Single-LED green	24 VDC ±10 %	10 mA	Flat ribbon cable	**84-8001.5640**	1	0.010 kg
	Single-LED blue	24 VDC ±10 %	10 mA	Flat ribbon cable	**84-8001.6640**	1	0.010 kg
	Single-LED white	24 VDC ±10 %	10 mA	Flat ribbon cable	**84-8001.9640**	1	0.010 kg



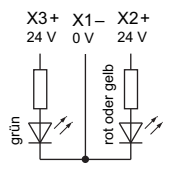
Wiring diagram 1

Illumination element bi-colour

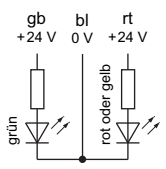
Additional Information

- 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
Illumination element with bi-colour illumination							
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



Wiring diagram 1



Wiring diagram 2

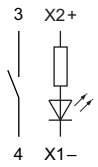
Switching element with illumination

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

Protection degree	LED colour	Operating voltage	Operation current	Contacts	Terminal	Part No.	Wiring diagram	Weight
Switching element with illumination								
IP 40	Single-LED red	12 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.2320**	1	0.006 kg
	Single-LED orange	12 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.3320**	1	0.006 kg
	Single-LED yellow	12 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.4320**	1	0.006 kg
	Single-LED green	12 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.5320**	1	0.006 kg
	Single-LED blue	12 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.6320**	1	0.006 kg
	Single-LED white	12 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.9320**	1	0.006 kg
	Single-LED red	24 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.2620**	1	0.006 kg
	Single-LED orange	24 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.3620**	1	0.006 kg
	Single-LED yellow	24 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.4620**	1	0.006 kg
	Single-LED green	24 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.5620**	1	0.006 kg
	Single-LED blue	24 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.6620**	1	0.006 kg
	Single-LED white	24 VDC ±10 %	10 mA	1 NO	Plug 2.8 x 0.8 mm	**84-8511.9620**	1	0.006 kg
Switching element with illumination								
IP 40	Single-LED red	12 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.2340**	1	0.015 kg
	Single-LED orange	12 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.3340**	1	0.015 kg
	Single-LED yellow	12 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.4340**	1	0.015 kg
	Single-LED green	12 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.5340**	1	0.015 kg
	Single-LED blue	12 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.6340**	1	0.015 kg
	Single-LED white	12 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.9340**	1	0.015 kg
	Single-LED red	24 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.2640**	1	0.015 kg
	Single-LED orange	24 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.3640**	1	0.015 kg
	Single-LED yellow	24 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.4640**	1	0.015 kg
	Single-LED green	24 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.5640**	1	0.015 kg
	Single-LED blue	24 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.6640**	1	0.015 kg
	Single-LED white	24 VDC ±10 %	10 mA	1 NO	Flat ribbon cable	**84-8511.9640**	1	0.015 kg

Contacts: NO = Normally open



Wiring diagram 1

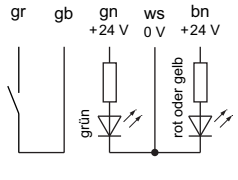
Switching element bi-colour

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
Switching element with bi-colour illumination								
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



Wiring diagram 1

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 occure, the plugs may become loose

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

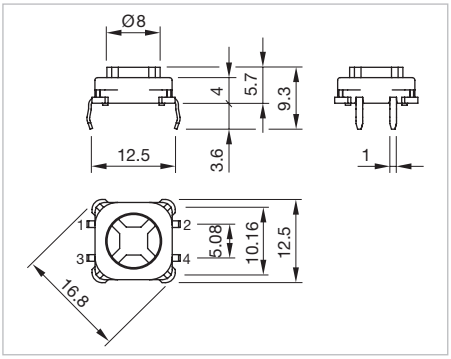
Contacts: NO = Normally open

Wiring diagram 1

Switching element PCB illuminative

Additional Information

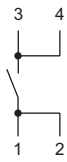
- The customer has to decide what series resistor shall be used to the LED
- LED and mounting flange to be ordered separately



Dimensions [mm]

Contacts	Terminal	Switching action	Part No.	Component layout	Wiring diagram	Weight
Switching element PCB mounting illuminative						
1 NO	PCB	B	**92-851.342**	3	1	0.001 kg

Contacts: NO = Normally open
Switching action: B = Momentary
The component layouts you will find from page 803

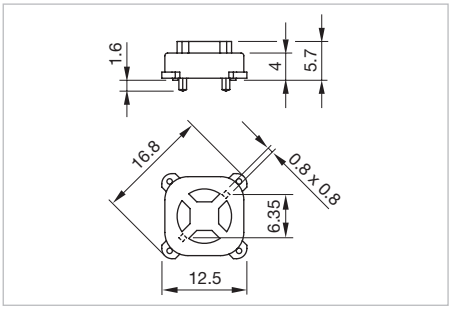


Wiring diagram 1

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

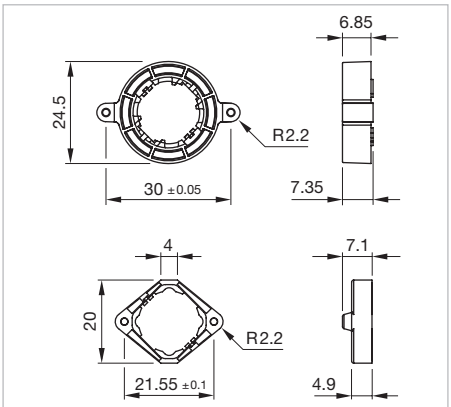


Dimensions [mm]

Terminal	Part No.	Component layout	Weight
Illumination element PCB mounting			
PCB	**92-800.042**	4	0.001 kg

The component layouts you will find from page 803

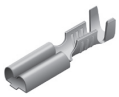
Mounting flange



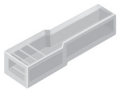
Dimensions [mm]

Product attribute	Part No.	Weight
Mounting flange		
Halo illumination (illuminated multi-color bezel)	**84-960.0**	0.001 kg
Mounting flange		
Standard version	**92-960.0**	0.001 kg

Flat receptacle

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

Insulation sleeve

Product attribute	Part No.	Weight
 **Insulation sleeve**		
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 nessecary per element

Part No.	Weight
Plug	
84-900	0.001 kg

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-LED					
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

LED colour	Forward voltage typ.	Lumi. intensity	Dom. wavelength	Part No.	Weight
Bi-colour-LED					
Bi-colour LED red/green	2.0/3.2 VDC @ 20 mA	310/800 mcd	625/528 nm	**10-2603.308AL**	0.001 kg
Bi-colour LED yellow/green	2.0/3.2 VDC @ 20 mA	350/750 mcd	591/528 nm	**10-2603.308CL**	0.001 kg

Emergency-stop and Stop pushbutton

Emergency-stop legend

Additional Information

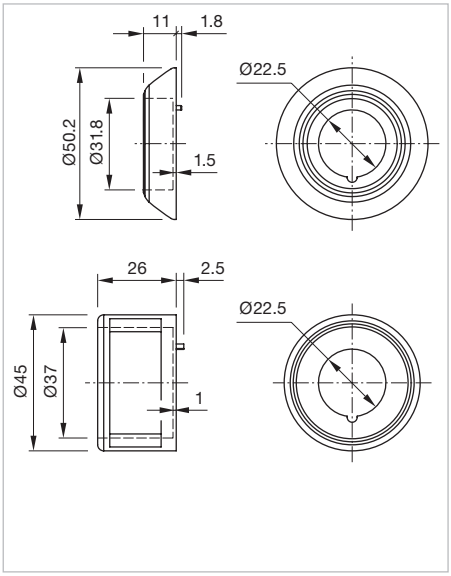
- Front panel thickness 3 mm max.

Dimension	Mounting cut-out	Marking	Colour	Part No.	Weight
Emergency-stop legend					
Ø 59 x 1 mm	Ø 22.5 mm	NOT AUS	yellow	**704.963.5**	0.011 kg
		EMERGENCY STOP	yellow	**704.963.6**	0.011 kg
		ARRET D›URGENCE	yellow	**704.963.7**	0.011 kg
		NOT HALT	yellow	**704.963.8**	0.011 kg
Ø 90 x 1 mm	Ø 22.5 mm	NOT AUS	yellow	**704.963.0**	0.011 kg
		EMERGENCY STOP	yellow	**704.963.1**	0.011 kg
		ARRET D›URGENCE	yellow	**704.963.2**	0.011 kg
		NOT HALT	yellow	**704.963.3**	0.011 kg

E-stop protective shroud

Additional Information

- Front panel thickness 1 ... 3 mm
- With anti-twist device
- When using a protective shroud the e-stop or stop-switch has to be turned by 180° to be mounted. See dimensional drawing
- The protection shroud Part No. 84-909 is not suitable for a proper use of emergency-stop. It can obstruct a spontaneous operation of the emergency-stop switch



Dimensions [mm]

Front protection	Dimension	Mounting cut-out	Marking	Material	Colour	Part No.	Weight
E-stop protective shroud							
IP 65	Ø 50 mm	Ø 22.5 mm		Plastic	yellow	**84-902**	0.006 kg
			NOT - AUS	Plastic	yellow	**84-902A**	0.006 kg

Front protection	Dimension	Mounting cut-out	Marking	Material	Colour	Part No.	Weight
IP 65	Ø 50 mm	Ø 22.5 mm	EMERGENCY STOP	Plastic	yellow	**84-902B**	0.006 kg
			NOT - HALT	Plastic	yellow	**84-902D**	0.006 kg
E-stop protective shroud							
IP 40	Ø 45 mm	Ø 22.5 mm		Metal	yellow RAL 1003	**84-909**	0.021 kg

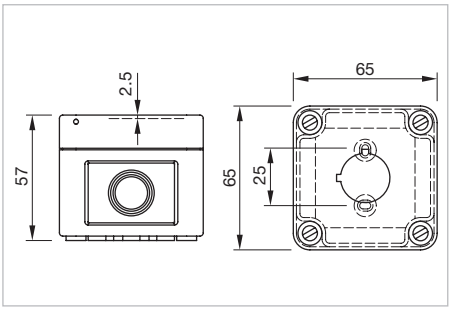
Fixing nut

Product attribute	Dimension	Material	Colour	Part No.	Weight
Fixing nut					
For limited-space applications	Ø 28 mm	Plastic	black	**84-905**	0.002 kg
Fixing nut					
Standard delivery	Ø 30 mm	Plastic	black	**84-908**	0.002 kg

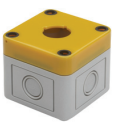
Emergency-stop enclosure, IP 66

Additional Information

- Bottom grey similar RAL 7035; cover lead-sealable, yellow similar RAL 1004
- With mounting cut-out Ø22.5 mm, with anti- twist device
- Openings for cable gland M16 or M20



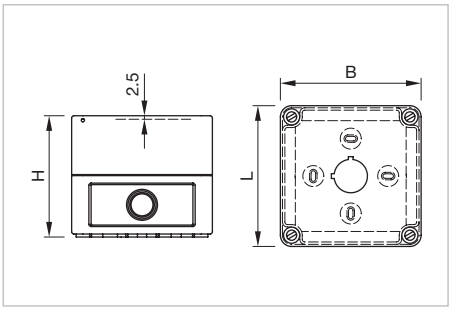
Dimensions [mm]

Dimension	Part No.	Weight
 **Emergency-stop enclosure**		
65 x 65 x 57 mm	**84-910**	0.099 kg

Stop switch enclosure, IP 66

Additional Information

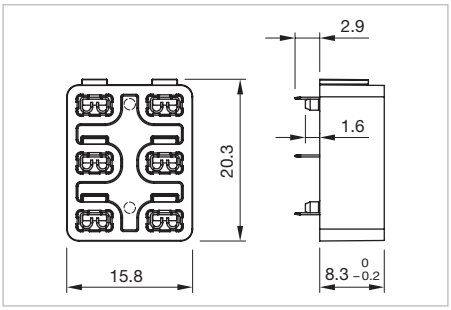
- Cover lead-sealable



Dimensions [mm]

Product attribute	Dimension	Material	Colour	Part No.	Weight
Enclosure					
with mounting cut-out 1 x Ø 22.5 mm, with anti-twist device	L 94 x B 94 x H 81 mm	Plastic	grey, similar RAL 7035	**704.945.1**	0.211 kg
Enclosure					
with mounting cut-out 2 x Ø 22.5 mm, with anti-twist device	L 130 x B 94 x H 81 mm	Plastic	grey, similar RAL 7035	**704.945.2**	0.251 kg
Enclosure					
with mounting cut-out 3 x Ø 22.5 mm, with anti-twist device	L 180 x B 94 x H 81 mm	Plastic	grey, similar RAL 7035	**704.945.3**	0.313 kg
Enclosure					
with mounting cut-out 4 x Ø 22.5 mm, with anti-twist device	L 180 x B 182 x H 110 mm	Plastic	grey, similar RAL 7035	**704.945.4**	0.572 kg
Enclosure					
with mounting cut-out 6 x Ø 22.5 mm, with anti-twist device	L 180 x B 182 x H 110 mm	Plastic	grey, similar RAL 7035	**704.945.5**	0.568 kg

PCB plug-in base



Dimensions [mm]

Dimension	Pins	Terminal	Part No.	Compo-nent layout	Weight
PCB plug-in base					
20.3 x 15.8 x 8.3 mm	axial	PCB	**84-920**	5	0.003 kg

The component layouts you will find from page 803

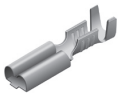
Cable gland, IP 68

Additional Information

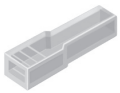
- With traction relief

Product attribute	Thread	Material	Colour	Part No.	Weight
Cable gland					
Clamping range Ø 4 ... 10 mm, thread length 8 mm	M16 x 1.5	Plastic	grey	**61-9481.6**	0.007 kg
Clamping range Ø 6 ... 12 mm, thread length 9 mm	M20 x 1.5	Plastic	grey	**704.945.6**	0.011 kg

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

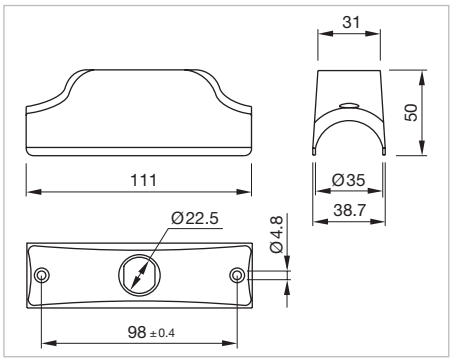
Product attribute	Part No.	Weight
 **Insulation sleeve**		
for flat receptacle 2.8 mm	**31-929**	0.001 kg

Stop request pushbutton

Housing pole mounting 35 mm

Additional Information

- Please note: The cut-out of the pole must read min. 22 mm and needs to be aligned with the switch
- Screws are not contained in the scope of supply



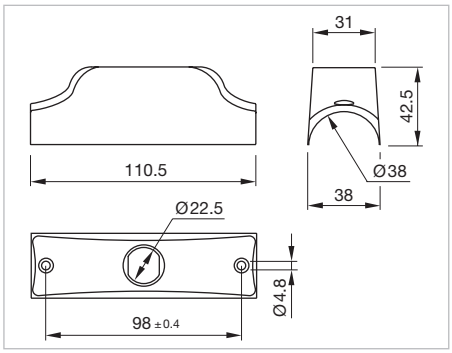
Dimensions [mm]

Material	Colour	Part No.	Weight
Housing pole mounting 35 mm			
Plastic	yellow RAL 1023	**84-9500.4**	0.035 kg
	traffic blue RAL 5017	**84-9500.6A**	0.035 kg
	grey RAL 7016	**84-9500.8**	0.035 kg

Housing pole mounting 38 mm

Additional Information

- Please note: The cut-out of the pole must read min. 22 mm and needs to be aligned with the switch
- Screws are not contained in the scope of supply



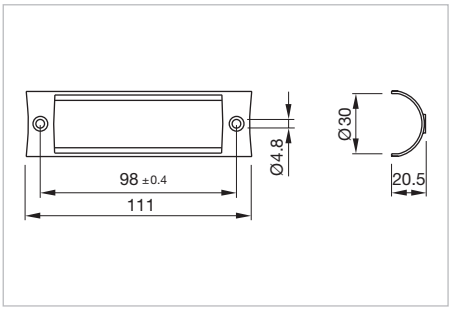
Dimensions [mm]

Material	Colour	Part No.	Weight
Housing pole mounting 38 mm			
Plastic	yellow RAL 1023	**84-9600.4**	0.030 kg
	grey RAL 7016	**84-9600.8**	0.030 kg

Adaptor reducing to 30 mm

Additional Information

- For housing, pole mounting 35 mm dia.



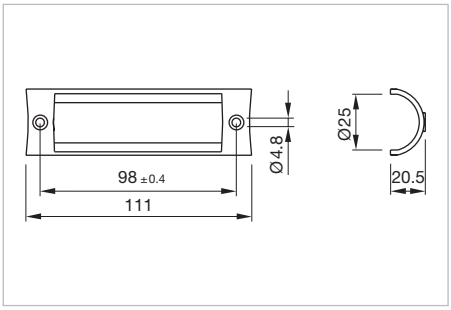
Dimensions [mm]

Material	Colour	Part No.	Weight
Adaptor reducing to 30 mm			
Plastic	yellow RAL 1023	**84-9700.4**	0.024 kg
	grey RAL 7016	**84-9700.8**	0.024 kg

Adaptor reducing to 25 mm

Additional Information

- For housing, pole mounting 35 mm dia.



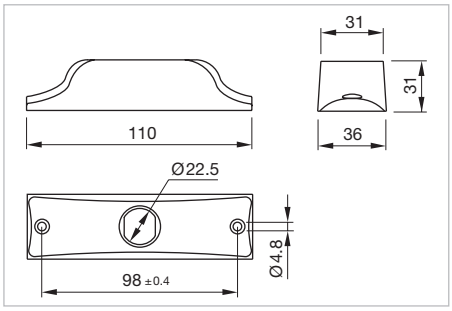
Dimensions [mm]

Material	Colour	Part No.	Weight
Adaptor reducing to 25 mm			
Plastic	yellow RAL 1023	**84-9300.4**	0.008 kg
	grey RAL 7016	**84-9300.8**	0.008 kg

Housing wall mounting

Additional Information

- Please note: The cut-out of the pole must read min. 22 mm and needs to be aligned with the switch
- Screws are not contained in the scope of supply



Dimensions [mm]

Material	Colour	Part No.	Weight
Housing wall mounting			
Plastic	yellow RAL 1023	**84-9800.4**	0.024 kg
	grey RAL 7016	**84-9800.8**	0.024 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		
for tightening or loosening of fixing nut, for Indicator and Pushbutton	**84-997**	0.027 kg

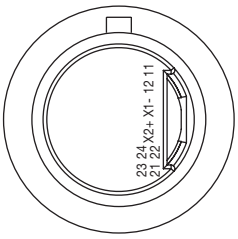
Dismantling tool

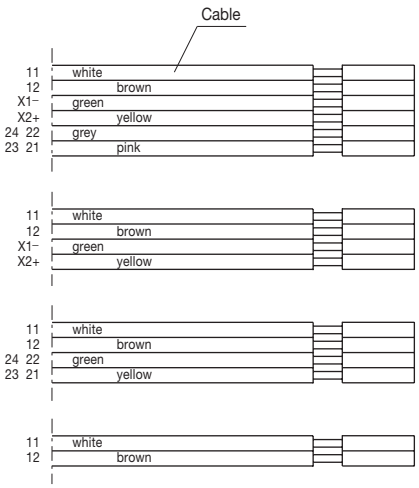
Additional Information

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

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

Drawings





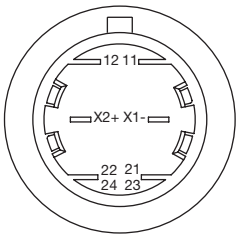
	Terminals
1 NC + 1 NO	11 / 12 + 23 / 24
2 NC	11 / 12 + 21 / 22
Illumination	X1– / X2+

	Terminals
1 NC	11 / 12
Illumination	X1– / X2+

	Terminals
1 NC + 1 NO	11 / 12 + 23 / 24
2 NC	11 / 12 + 21 / 22

	Terminals
1 NC	11 / 12

Component layout 1

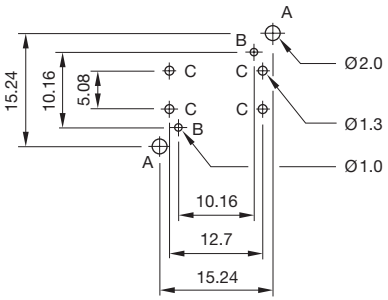


Component layout 2

Single-LED

Drilling plan (element side)

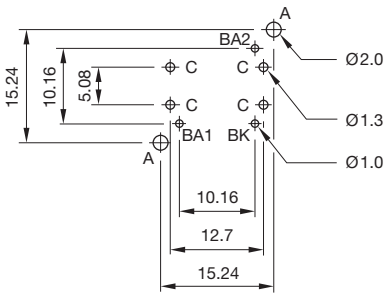
A Fixing holes for mounting flange (92-960.0)
B Holes for LED
C Holes for contact pins
Pad max. Ø 2.5 mm
Through-connection recommended



Bi-colour-LED

Drilling plan (element side)

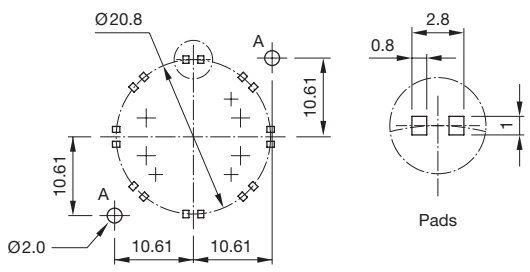
A Fixing holes for mounting flange (92-960.0)
B Holes for Bi-colour LED:
BA1 (green) + BA2 (yellow or red) = Anodes, BK = Cathode
C Holes for contact pins
Pad max. Ø 2.5 mm
Through-connection recommended



Hyper mini Top-LED

Drilling plan (element side)

A Fixing holes for mounting flange (84-960.0)

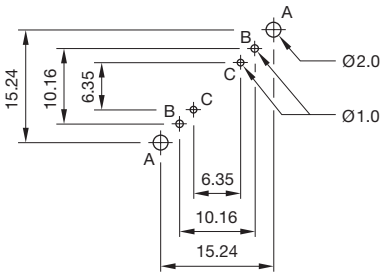


Component layout 3

Single-LED

Drilling plan (element side)

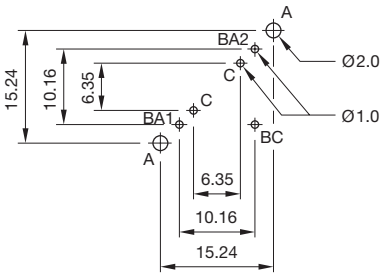
A Fixing holes for mounting flange (92-960.0)
B Holes for LED
C Holes for centering pins



Bi-colour-LED

Drilling plan (element side)

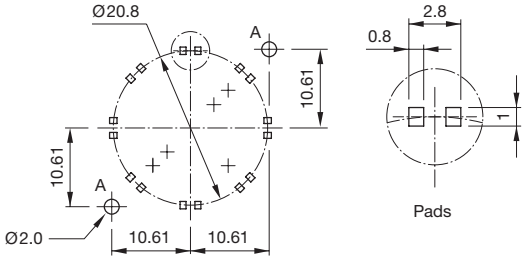
A Fixing holes for mounting flange (92-960.0)
B Holes for Bi-colour LED:
BA1 (green) + BA2 (yellow or red) = Anodes, BC = Cathode
C Holes for centering pins



Hyper mini Top-LED

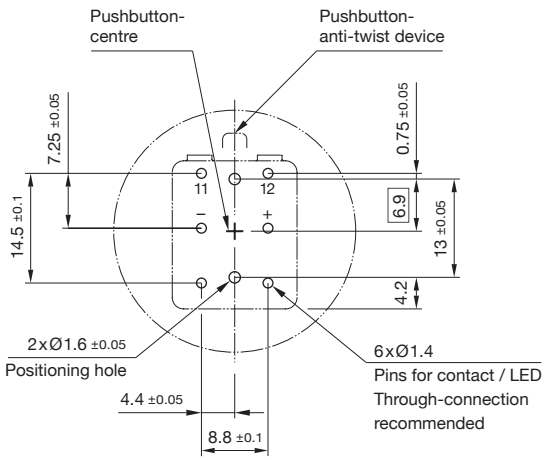
Drilling plan (element side)

A Fixing holes for mounting flange (84-960.0)



Component layout 4

Drilling plan (element side)



Component layout 5

Emergency-stop

Switching system

The double-break switching system can be supplied for the following switching functions:
1 Normally closed, 2 Normally closed, 1 Normally closed + 1 Normally open.
The Normally closed contacts have forced opening according to EN IEC 60947-5-1

Material

Connection cable
Polyvinylchloride (PVC), operating temperature up to +65 °C

Mushroom-head cap
Polybutylenterephthalate (PBT), as per UL 94 V0 (red items)

Actuator housing
Polyamide (PA 66), as per UL 94 V0, Flat ribbon cable-cover Polyamide (PA 6.6), as per UL 94 V0

Material of contact
Silver alloy gold plated

Mechanical characteristics

Front panel thickness
Standard 1 … 4 mm
with EMERGENCY-STOP protective shroud Part No. 84-902 1 … 3 mm

Mounting cut-outs
Ø 22.5 mm as per EN IEC 60947-5-1 with anti-twist device

Terminals
Soldering terminals 2.8 x 0.5 mm (solderable), CuSn6 tin-plated
Flat ribbon cable 2-, 4-, or 6-poles 0.35 mm² (AWG 22)

Tightening torque
Fixing nut 80 Ncm

Actuating force
22 N ±4 N

Actuating travel
approx. 4 mm to release the internal operation part

Mechanical lifetime
≥ 50 000 cycles of operations

Electrical characteristics

Standards
The devices comply with: EN IEC 60947-5-1, EN IEC 60947-5-5 (EMERGENCY-STOP), DIN EN ISO 13850, EN IEC 60204

Illumination
LED red with pole reversal, constant current source
Operation Voltage 5 VDC … 30 VDC
Current consumption 9.7 mA … 12.4 mA

Rated Operational Voltage U_e
250 VAC, as per EN IEC 60947-1

Rated Insulation Voltage U_i
250 V, as per EN IEC 60947-1

Rated Impulse Withstand Voltage U_{imp}
2.5 kV, as per EN IEC 60947-1

Contact resistance
New state ≤ 50 mΩ, as per DIN IEC 60512-2-3

Isolation resistance
> 1011 Ω between the opend contats at 500 VDC, as per DIN IEC 60512-3-1

Electrical life
≥ 50 000 cycles of operations (inductive cosφ 0.4), as per EN IEC 60947-5-1

Voltage	120 VAC	240 VAC	125 VDC	250 VDC
Current	3 A	1.5 A	0.55 A	0.27 A

Reduced load ≥ 50 000 cycles of operations (resistive)

Voltage	1 VAC/DC	42 VAC/DC
Current	100 mA	200 mA

Conventional free air thermal current I_{th}
5 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
Switch rating AC with silver contact (gold plated), service category AC-15, as per EN IEC 60947-5-1

Voltage	120 VAC	240 VAC
Current	3 A	1.5 A

Switch rating DC for silver contact (gold plated), service category DC-13, as per EN IEC 60947-5-1

Voltage (VDC)	12 VDC	24 VDC	48 VDC	60 VDC	125 VDC	250 VDC
Current Plug	5 A	4 A	2.1 A	1.7 A	0.55 A	0.27 A
Current Cable	3 A	3 A	2.1 A	1.7 A	0.55 A	0.27 A

Recommended minimum operational data
Silver contacts (gold plated)

Voltage	1 VAC/DC
Current	1 mA

Electric strength
500 VAC, 50 Hz, 1 min, as per DIN IEC 60512-2

Rated conditional short-circuit current
1000 A, type of short-circuit unit 6 A gG, as per EN IEC 60947-5-1

Protection class
Class II, as per EN IEC 60947-5

Overvoltage category
II, as per EN IEC 60947-1

Degree of pollution
3, as per EN IEC 60947-1

Environmental conditions

Storage temperature
-25 °C … +80 °C

Operating temperature
-25 °C … +65 °C

Front protection
IP 65, as per EN IEC 60529

Shock resistance
(semi-sinusoidal)
max. 150 m/s², pulse width 11 ms, 3-axis,
as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
max. 50 m/s² at 10 Hz … 500 Hz, 10 cycles, 3-axis,
as per EN IEC 60068-2-6

Climate resistance
Damp heat, cyclic
96 hours, +25 °C/97 %, +55 °C/93 % relative humidity,
as per EN IEC 60068-2-30

Damp heat, steady
56 days, +40 °C/93 % relative humidity,
as per EN IEC 60068-2-78

Dry heat
96 hours, +70 °C, as per EN IEC 60068-2-2

Low temperature
96 hours, -40 °C, as per EN IEC 60068-2-1

Saline mist
96 Stunden, +35 °C in chemical solution NaCl,
as per EN IEC 60068-2-11

Approvals

Approbations
CB (IEC 60947)
UL
NFF

Declaration of conformity
CE

Switching element illuminated pushbutton

Switching system

Short-travel switching system with 2 independent contact points and tactile operation.
Guarantees reliable switching even of very light loads.
Fitted with 1 normally open contact.

Material

Connection cable
Polyvinylchloride (PVC), short-time heat-resistant up to 105 °C

Material of contact
Silver alloy gold plated

Switching element
Thermoplastic polyester (PET, PBT), as per UL 94 V0 and
Polyacetale (POM), as per UL 94 HB

Mechanical characteristics

Terminals
Plug-in terminals 2.8 x 0.8 mm (solderable)
Flat ribbon cable 0.5 mm²
PCB terminal

Actuating force
4.0 N ±0.2 N (measured at the lens)

Actuating travel
~0.5 mm

Rebound time
≤ 1 ms

Resistance to heat of soldering
260 °C, 5 s (PCB assembly)
350 °C, 10 s (when using a soldering iron)
as per EN IEC 60068-2-20

Mechanical lifetime
≥ 1 million cycles of operations

Electrical characteristics

Illumination
Single-Chip LED, green, orange, red, yellow, white and blue

Operation Voltage	12 VDC	24 VDC
Current consumption	10 mA	10 mA

Contact resistance
Starting value (initial) ≤ 100 mΩ, as per DIN IEC 60512-2

Isolation resistance
≥ 1 GΩ between all terminals at 100 VDC,
as per DIN IEC 60512-3-1

Electrical life
as per EN IEC 60512-5

5 million cycles of operation	24 VAC, 50 mA at 480 Ω
5 million cycles of operation	24 VAC, 100 mA at 240 Ω
2 million cycles of operation	42 VAC, 50 mA at 840 Ω
2 million cycles of operation	42 VAC, 100 mA at 420 Ω
300 000 cycles of operation	42 VAC, 100 mA at cosφ 0.4
250 000 cycles of operation	42 VAC, 200 mA at cosφ 0.395
1 million cycles of operation	12 VDC, 250 mA at 48 Ω
1 million cycles of operation	24 VDC, 50 mA at 480 Ω
1 million cycles of operation	24 VDC, 100 mA at 240 Ω
5 million cycles of operation	42 VDC, 25 mA at 1680 Ω
1.5 million cycles of operation	42 VDC, 50 mA at 840 Ω
100 000 cycles of operation	42 VDC, 100 mA at 420 Ω
500 000 cycles of operation	24 VDC, 200 mA at L/R = 30 ms
300 000 cycles of operation	42 VDC, 100 mA at L/R = 30 ms
100 000 cycles of operation	42 VDC, 200 mA at L/R = 30 ms

Switch rating

Voltage	50 mVAC/DC … 42 VAC/DC
Current	10 uA … 100 mA
Power	max. 2 W

Electric strength
500 VAC, 50 Hz, 1 min, as per DIN IEC 60512-2

Environmental conditions

Storage temperature
-40 °C … +85 °C

Operating temperature
-25 °C … +70 °C

Protection degree
Back protection:
IP 40, standard version
IP 67, fully sealed version, with mounted actuator only.

Shock resistance
(semi-sinusoidal)
max. 100 m/s², pulse width 11 ms, 3-axis,
as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
max. 50 m/s² at 10 Hz … 500 Hz, 10 cycles, 3-axis,
as per EN IEC 60068-2-6

Actuator

Material

Lens
Polycarbonate (PC), as per UL 94 V2 or Aluminium anodised

Actuator housing
Polyetherimid (PEI), as per UL 94 V0 or Aluminium anodised

Mechanical characteristics

Mounting cut-outs
Ø 22.5 mm and Ø 30.5 mm

Tightening torque
Fixing nut max. 80 Ncm

Actuating force
4.0 N ±0.2 N (measured at the lens)

Actuating travel
Total switching travel 1.2 mm

Mechanical lifetime
≥ 1 million cycles of operations

Electrical characteristics

Electrostatic breakdown value

Plastic case	≥ 15 kV
Aluminium case	≥ 5 kV

as per IEC 61000-4-2, mounted in plastic front panel

Environmental conditions

Storage temperature
-40 °C … +85 °C

Operating temperature
-25 °C … +70 °C

Front protection
IP 67 and IP40, as per EN IEC 60529

Climate resistance
Damp heat, cyclic
96 hours, +25 °C/97 %, +55 °C/93 % relative humidity,
as per EN IEC 60068-2-30

Damp heat, state
56 days, +40 °C/93 % relative humidity,
as per EN IEC 60068-2-78

Rapid change of temperature
100 cycles, -40 °C … +80 °C, as per EN IEC 60068-2-14

Approvals

Approbations
EBC
NFF

Declaration of conformity
CE
TSI/PRM

Lens plastic with symbols

Chemical and mechanical tests

1. Wipe resistance according to EN 61058-1 section 8.9
   (Petrol/gasoline, distilled water, diluted alcohol)
2. Graffiti-Killer Test
3. Railway cleaning agents (Walo)
4. Damp/dry heat durability
5. UV test according to EN 60068-2-5 / 56 days
6. Mechanical life time 2 Mio. Operations (abrasive test)

EAO reserves the right to alter specifications without further notice.

Suppressor circuits

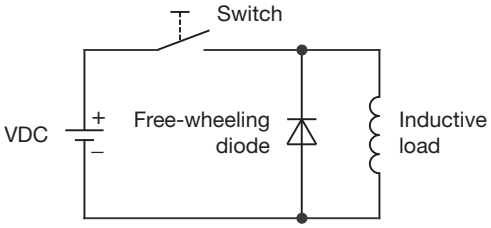
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e. g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

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. 12 VDC) see Fig. 2.

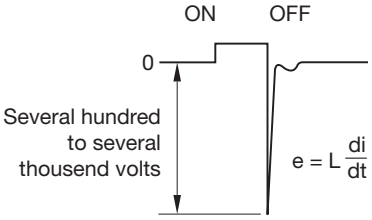
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

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

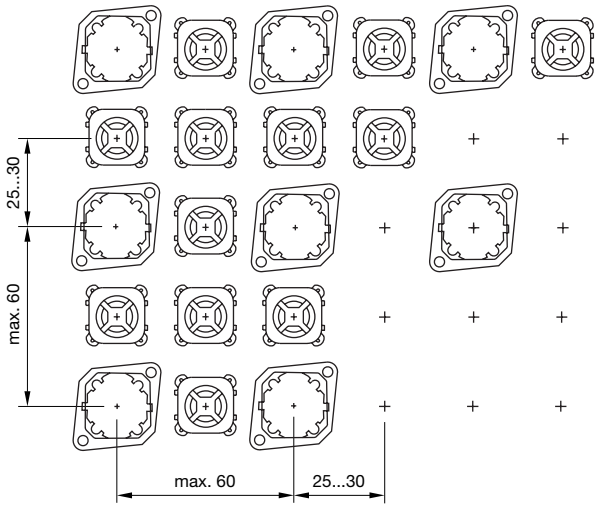
Switching with inductive load
Fig. 1



Counter EMF
over load without free-wheeling diode
Fig. 2



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.

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Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331