

Series 51

Characteristics

The compact 16mm Series 51 is particularly suited for applications in the areas:

- Flush design
- Raised design
- PCB (with adaptor)

The low level switching element is laid out for low current applications.

Functions

The Series 51 incorporates the following functions:

- Indicator
- Pushbutton
- Illuminated pushbutton
- Stop switch
- Keylock switch
- Selector switch

Market segments

The EAO Series 51 is especially suited for applications in the segments:

- Machinery and Automation
- Panel building

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	4
Pushbutton	5
Illuminated pushbutton	7
Keylock switch	15
Selector switch	21

Raised design

Indicator	31
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Selector switch	47

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51 Flush design

Indicator square, IP 65



Product can differ from the current configuration.

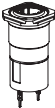


Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm

Equipment consisting of (schematic overview)

**Lens**page 52

**Single-LED**page 71

**Actuator**

**Front bezel set**page 60

**Fixing nut**

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

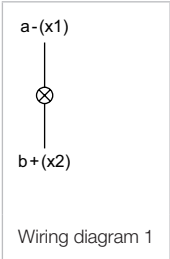
- For front dimension 24 x 24 mm



Mounting cut-outs [mm]

Terminal	Part No.	Component layout	Wiring diagram	Weight
	Indicator actuator square, flush design			
Solder 2.8 x 0.5 mm	51-050.002F		1	0.004 kg
Solder	51-050.005F		1	0.004 kg
Universal 2.0 x 0.5 mm	51-051.006F	4	1	0.005 kg

The component layouts you will find from page 76



Indicator rectangular, IP 65

Equipment consisting of (schematic overview)

**Lens**
page 52

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**Actuator**

**Front bezel set**
page 60

**Fixing nut**

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

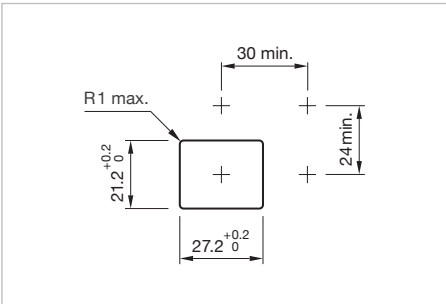
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.



Mounting cut-outs [mm]

Additional Information

- For front dimension 24 x 30 mm

Terminal	Part No.	Component layout	Wiring diagram	Weight
	Indicator actuator rectangular			
Solder 2.8 x 0.5 mm	51-050.002F		1	0.004 kg
Solder	51-050.005F		1	0.004 kg
Universal 2.0 x 0.5 mm	51-051.006F	4	1	0.005 kg

The component layouts you will find from page 76



51 Flush design

Indicator round, IP 65



Product can differ from the current configuration.



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm

Additional Information

- For front dimension Ø 25 mm

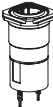


Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

**Lens** page 52

**Single-LED** page 71

**Actuator**

**Front bezel set** page 60

**Fixing nut**

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.

Terminal	Part No.	Component layout	Wiring diagram	Weight
	Indicator actuator round			
Solder 2.8 x 0.5 mm	51-050.002F		1	0.004 kg
Solder	51-050.005F		1	0.004 kg
Universal 2.0 x 0.5 mm	51-051.006F	4	1	0.005 kg

The component layouts you will find from page 76

a-(x1)

⊗

b+(x2)

Wiring diagram 1

Pushbutton round, IP 65

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.



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

Additional Information

- For front dimension Ø 25 mm



Mounting cut-outs [mm]

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
 Illuminated pushbutton actuator round							
Low-level element	1 NC	B	Universal 2.0 x 0.5 mm	51-456.036F	1	1	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-486.036F	1	2	0.006 kg
	1 NC + 1 NO	B	Universal 2.0 x 0.5 mm	51-453.036F	1	3	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-483.036F	1	4	0.006 kg
	1 NO	B	Universal 2.0 x 0.5 mm	51-455.036F	1	5	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-485.036F	1	6	0.006 kg
	2 NC	B	Universal 2.0 x 0.5 mm	51-452.036F	1	7	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-482.036F	1	8	0.006 kg
	2 NO	B	Universal 2.0 x 0.5 mm	51-451.036F	1	9	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-481.036F	1	10	0.006 kg
Snap-action switching element	1 NC + 1 NO	B	Solder 2.8 x 0.5 mm	51-151.022F		11	0.007 kg
		B	Solder	51-151.0252F		11	0.005 kg
	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-281.022F		12	0.007 kg
		C	Solder	51-281.0252F		12	0.005 kg
	2 NC + 2 NO	B	Solder	51-152.0252F		13	0.008 kg
		C	Solder	51-282.0252F		14	0.008 kg
	3 NC + 3 NO	B	Solder	51-153.0252F		15	0.010 kg
		C	Solder	51-283.0252F		16	0.010 kg
	4 NC + 4 NO	B	Solder	51-154.0252F		17	0.012 kg
		C	Solder	51-284.0252F		18	0.012 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: B = Momentary, C = Maintained
The component layouts you will find from page 76

51 Flush design



Illuminated pushbutton square, IP 65

Equipment consisting of (schematic overview)



Lens page 52



Single-LED page 71



Actuator



Front bezel set page 60



Fixing nut

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]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

Additional Information

- For front dimension 24 x 24 mm



Mounting cut-outs [mm]

Switching system	Contacts	Switching action	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Illuminated pushbutton square							
Low-level element	1 NC	B	Universal 2.0 x 0.5 mm	51-456.036F	4	1	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-486.036F	4	2	0.006 kg
	1 NC + 1 NO	B	Universal 2.0 x 0.5 mm	51-453.036F	4	3	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-483.036F	4	4	0.006 kg
	1 NO	B	Universal 2.0 x 0.5 mm	51-455.036F	4	5	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-485.036F	4	6	0.006 kg
	2 NC	B	Universal 2.0 x 0.5 mm	51-452.036F	4	7	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-482.036F	4	8	0.006 kg
	2 NO	B	Universal 2.0 x 0.5 mm	51-451.036F	4	9	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-481.036F	4	10	0.006 kg
Snap-action switching element	1 NC + 1 NO	B	Solder 2.8 x 0.5 mm	51-151.022F		11	0.007 kg
		B	Solder	51-151.0252F		12	0.005 kg
		C	Solder 2.8 x 0.5 mm	51-281.022F		13	0.007 kg
		C	Solder	51-281.0252F		14	0.005 kg
	2 NC + 2 NO	B	Solder	51-152.0252F		15	0.008 kg
		C	Solder	51-282.0252F		16	0.008 kg
	3 NC + 3 NO	B	Solder	51-153.0252F		17	0.010 kg
		C	Solder	51-283.0252F		18	0.010 kg
	4 NC + 4 NO	B	Solder	51-154.0252F		19	0.012 kg
		C	Solder	51-284.0252F		20	0.012 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: B = Momentary, C = Maintain
The component layouts you will find from page 76

51 Flush design



Illuminated pushbutton rectangular, IP 65

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.



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

Additional Information

- For front dimension 24 x 30 mm

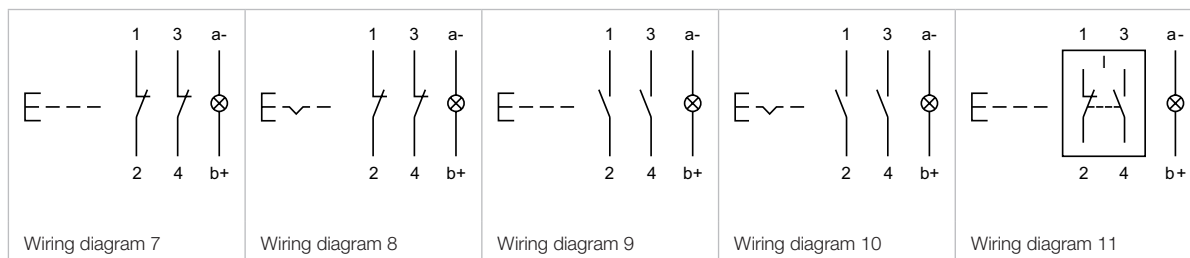


Mounting cut-outs [mm]

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
 Illuminated pushbutton actuator rectangular							
Low-level element	1 NC	B	Universal 2.0 x 0.5 mm	51-456.036F	4	1	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-486.036F	4	2	0.006 kg
	1 NC + 1 NO	B	Universal 2.0 x 0.5 mm	51-453.036F	4	3	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-483.036F	4	4	0.006 kg
	1 NO	B	Universal 2.0 x 0.5 mm	51-455.036F	4	5	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-485.036F	4	6	0.006 kg
	2 NC	B	Universal 2.0 x 0.5 mm	51-452.036F	4	7	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-482.036F	4	8	0.006 kg
	2 NO	B	Universal 2.0 x 0.5 mm	51-451.036F	4	9	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-481.036F	4	10	0.006 kg
Snap-action switching element	1 NC + 1 NO	B	Solder 2.8 x 0.5 mm	51-151.022F		11	0.007 kg
		B	Solder	51-151.0252F		12	0.005 kg
		C	Solder 2.8 x 0.5 mm	51-281.022F		13	0.007 kg
		C	Solder	51-281.0252F		14	0.005 kg
	2 NC + 2 NO	B	Solder	51-152.0252F		15	0.008 kg
		C	Solder	51-282.0252F		16	0.008 kg
	3 NC + 3 NO	B	Solder	51-153.0252F		17	0.010 kg
		C	Solder	51-283.0252F		18	0.010 kg
	4 NC + 4 NO	B	Solder	51-154.0252F		19	0.012 kg
		C	Solder	51-284.0252F		20	0.012 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: B = Momentary, C = Maintain
The component layouts you will find from page 76

51 Flush design



Illuminated pushbutton round, IP 65

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.



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

Additional Information

- For front dimension Ø 25 mm



Mounting cut-outs [mm]

Switching system	Contacts	Switching action	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
 Illuminated pushbutton round							
Low-level element	1 NC	B	Universal 2.0 x 0.5 mm	51-456.036F	4	1	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-486.036F	4	2	0.006 kg
	1 NC + 1 NO	B	Universal 2.0 x 0.5 mm	51-453.036F	4	3	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-483.036F	4	4	0.006 kg
	1 NO	B	Universal 2.0 x 0.5 mm	51-455.036F	4	5	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-485.036F	4	6	0.006 kg
	2 NC	B	Universal 2.0 x 0.5 mm	51-452.036F	4	7	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-482.036F	4	8	0.006 kg
	2 NO	B	Universal 2.0 x 0.5 mm	51-451.036F	4	9	0.006 kg
		C	Universal 2.0 x 0.5 mm	51-481.036F	4	10	0.006 kg
Snap-action switching element	1 NC + 1 NO	B	Solder 2.8 x 0.5 mm	51-151.022F		11	0.007 kg
		B	Solder	51-151.0252F		12	0.005 kg
		C	Solder 2.8 x 0.5 mm	51-281.022F		13	0.007 kg
		C	Solder	51-281.0252F		14	0.005 kg
	2 NC + 2 NO	B	Solder	51-152.0252F		15	0.008 kg
		C	Solder	51-282.0252F		16	0.008 kg
	3 NC + 3 NO	B	Solder	51-153.0252F		17	0.010 kg
		C	Solder	51-283.0252F		18	0.010 kg
	4 NC + 4 NO	B	Solder	51-154.0252F		19	0.012 kg
		C	Solder	51-284.0252F		20	0.012 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: B = Momentary, C = Maintain
The component layouts you will find from page 76

51 Flush design



Keylock switch 2 positions, IP 65

Equipment consisting of (schematic overview)



Actuator



Front bezel set *page 62*



Anti-twist ring



Part of front bezel set



Fixing nut

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]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.



Mounting cut-outs [mm]

Additional Information

- For front dimensions 24 x 24 mm, 24 x 30 mm, Ø 25 mm
- Front plastic black
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Keylock switch actuator 2 positions square, flush design									
Low-level element	1 NC + 1 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-458.036DF	4	1	0.027 kg
	2 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-457.036DF	4	2	0.027 kg
	1 NC + 1 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-445.036DF	4	7	0.027 kg
				C	Universal 2.0 x 0.5 mm	51-448.036DF	4	7	0.027 kg
				A + C	Universal 2.0 x 0.5 mm	51-442.036DF	4	7	0.027 kg
	2 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-444.036DF	4	8	0.027 kg
				C	Universal 2.0 x 0.5 mm	51-447.036DF	4	8	0.027 kg
				A + C	Universal 2.0 x 0.5 mm	51-441.036DF	4	8	0.027 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	A	Solder 2.8 x 0.5 mm	51-145.022DF		3	0.027 kg
				A	Solder	51-145.025D2F		3	0.027 kg
	2 NC + 2 NO	A - B	B = 42°	A	Solder	51-146.025D2F		4	0.027 kg
	3 NC + 3 NO	A - B	B = 42°	A	Solder	51-147.025D2F		5	0.027 kg
	4 NC + 4 NO	A - B	B = 42°	A	Solder	51-148.025D2F		6	0.027 kg
	1 NC + 1 NO	A - C	C = 90°	A	Solder	51-255.025D2F		9	0.027 kg
				C	Solder	51-355.025D2F		9	0.027 kg
				A + C	Solder	51-155.025D2F		9	0.027 kg
				A	Solder 2.8 x 0.5 mm	51-255.022DF		9	0.027 kg

51 Flush design

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Component layout	Wiring diagram	Weight
Snap-action switching element	1 NC + 1 NO	A - C	C = 90°	C	Solder 2.8 x 0.5 mm	51-355.022DF		9	0.027 kg
				A + C	Solder 2.8 x 0.5 mm	51-155.022DF		9	0.027 kg
	2 NC + 2 NO	A - C	C = 90°	A	Solder	51-256.025D2F		10	0.027 kg
				C	Solder	51-356.025D2F		10	0.027 kg
				A + C	Solder	51-156.025D2F		10	0.027 kg
	3 NC + 3 NO	A - C	C = 90°	A	Solder	51-257.025D2F		11	0.027 kg
				C	Solder	51-357.025D2F		11	0.027 kg
				A + C	Solder	51-157.025D2F		11	0.027 kg
	4 NC + 4 NO	A - C	C = 90°	A	Solder	51-258.025D2F		12	0.027 kg
				C	Solder	51-358.025D2F		12	0.027 kg
				A + C	Solder	51-158.025D2F		12	0.027 kg



Keylock switch actuator 2 positions rectangular, flush design

Low-level element	1 NC + 1 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-428.036DF	4	1	0.029 kg
	2 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-427.036DF	4	2	0.029 kg
	1 NC + 1 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-405.036DF	4	7	0.029 kg
				C	Universal 2.0 x 0.5 mm	51-408.036DF	4	7	0.029 kg
				A + C	Universal 2.0 x 0.5 mm	51-402.036DF	4	7	0.029 kg
	2 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-404.036DF	4	8	0.029 kg
				C	Universal 2.0 x 0.5 mm	51-407.036DF	4	8	0.029 kg
				A + C	Universal 2.0 x 0.5 mm	51-401.036DF	4	8	0.029 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	A	Solder 2.8 x 0.5 mm	51-495.022DF		3	0.029 kg
				A	Solder	51-495.025D2F		3	0.029 kg
	2 NC + 2 NO	A - B	B = 42°	A	Solder	51-496.025D2F		4	0.029 kg
	3 NC + 3 NO	A - B	B = 42°	A	Solder	51-497.025D2F		5	0.029 kg
	4 NC + 4 NO	A - B	B = 42°	A	Solder	51-498.025D2F		6	0.029 kg
	1 NC + 1 NO	A - C	C = 90°	A	Solder	51-295.025D2F		9	0.029 kg
				C	Solder	51-395.025D2F		9	0.029 kg
				A + C	Solder	51-195.025D2F		9	0.029 kg
				A	Solder 2.8 x 0.5 mm	51-295.022DF		9	0.029 kg
				C	Solder 2.8 x 0.5 mm	51-395.022DF		9	0.029 kg
				A + C	Solder 2.8 x 0.5 mm	51-195.022DF		9	0.029 kg
	2 NC + 2 NO	A - C	C = 90°	A	Solder	51-296.025D2F		10	0.029 kg
				C	Solder	51-396.025D2F		10	0.029 kg
				A + C	Solder	51-196.025D2F		10	0.029 kg
	3 NC + 3 NO	A - C	C = 90°	A	Solder	51-297.025D2F		11	0.029 kg
				C	Solder	51-397.025D2F		11	0.029 kg
				A + C	Solder	51-197.025D2F		11	0.029 kg
	4 NC + 4 NO	A - C	C = 90°	A	Solder	51-298.025D2F		12	0.029 kg
				C	Solder	51-398.025D2F		12	0.029 kg
				A + C	Solder	51-198.025D2F		12	0.029 kg

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Component layout	Wiring diagram	Weight			
 Keylock switch actuator 2 positions round, flush design												
Low-level element	1 NC + 1 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-438.036DF	4	1	0.026 kg			
	2 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-437.036DF	4	2	0.026 kg			
	1 NC + 1 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-415.036DF	4	7	0.026 kg			
				C	Universal 2.0 x 0.5 mm	51-418.036DF	4	7	0.026 kg			
				A + C	Universal 2.0 x 0.5 mm	51-412.036DF	4	7	0.026 kg			
	2 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-414.036DF	4	8	0.026 kg			
				C	Universal 2.0 x 0.5 mm	51-417.036DF	4	8	0.026 kg			
A + C				Universal 2.0 x 0.5 mm	51-411.036DF	4	8	0.026 kg				
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	A	Solder 2.8 x 0.5 mm	51-141.022DF		3	0.026 kg			
				A	Solder	51-141.025D2F		3	0.026 kg			
	2 NC + 2 NO	A - B	B = 42°	A	Solder	51-142.025D2F		4	0.026 kg			
	3 NC + 3 NO	A - B	B = 42°	A	Solder	51-143.025D2F		5	0.026 kg			
	4 NC + 4 NO	A - B	B = 42°	A	Solder	51-144.025D2F		6	0.026 kg			
				1 NC + 1 NO	A - C	C = 90°	A	Solder	51-235.025D2F		9	0.026 kg
							C	Solder	51-335.025D2F		9	0.026 kg
							A + C	Solder	51-135.025D2F		9	0.026 kg
							A	Solder 2.8 x 0.5 mm	51-235.022DF		9	0.026 kg
				C	Solder 2.8 x 0.5 mm	51-335.022DF		9	0.026 kg			
	A + C	Solder 2.8 x 0.5 mm	51-135.022DF		9	0.026 kg						
	2 NC + 2 NO	A - C	C = 90°	A	Solder	51-236.025D2F		10	0.026 kg			
				C	Solder	51-336.025D2F		10	0.026 kg			
				A + C	Solder	51-136.025D2F		10	0.026 kg			
	3 NC + 3 NO	A - C	C = 90°	A	Solder	51-237.025D2F		11	0.026 kg			
				C	Solder	51-337.025D2F		11	0.026 kg			
				A + C	Solder	51-137.025D2F		11	0.026 kg			
	4 NC + 4 NO	A - C	C = 90°	A	Solder	51-238.025D2F		12	0.026 kg			
				C	Solder	51-338.025D2F		12	0.026 kg			
A + C				Solder	51-138.025D2F		12	0.026 kg				

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain
The component layouts you will find from page 76

51 Flush design



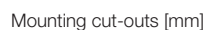
Keylock switch 3 positions, IP 65

Equipment consisting of (schematic overview)



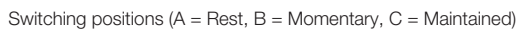
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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



Additional Information

- For front dimensions 24 x 24 mm, 24 x 30 mm, Ø 25 mm
- Front plastic black
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions square, flush design								
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	A	Solder 2.8 x 0.5 mm	51-384.022DF	1	0.027 kg
		C - A - B	C = 90°, B = 42°	A	Solder 2.8 x 0.5 mm	51-387.022DF	2	0.027 kg
				C + A	Solder 2.8 x 0.5 mm	51-388.022DF	2	0.027 kg
		B - A - C	B = 42°, C = 90°	A	Solder 2.8 x 0.5 mm	51-385.022DF	3	0.027 kg
				A + C	Solder 2.8 x 0.5 mm	51-386.022DF	3	0.027 kg
		C - A - C	C = 90° / 90°	A	Solder 2.8 x 0.5 mm	51-381.022DF	4	0.027 kg
				C + A + C	Solder 2.8 x 0.5 mm	51-382.022DF	4	0.027 kg
				C + C	Solder 2.8 x 0.5 mm	51-383.022DF	4	0.027 kg

51 Flush design

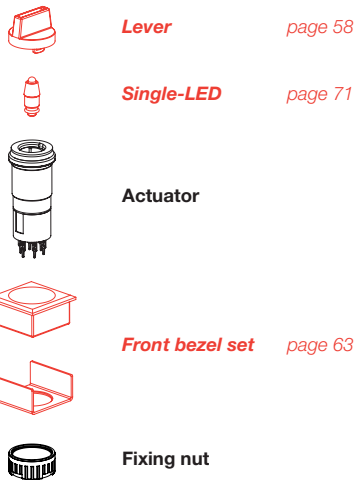
Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions rectangular, flush design								
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	A	Solder 2.8 x 0.5 mm	51-364.022DF	1	0.027 kg
		C - A - B	C = 90°, B = 42°	A	Solder 2.8 x 0.5 mm	51-367.022DF	2	0.027 kg
				C + A	Solder 2.8 x 0.5 mm	51-368.022DF	2	0.027 kg
		B - A - C	B = 42°, C = 90°	A	Solder 2.8 x 0.5 mm	51-365.022DF	3	0.027 kg
				A + C	Solder 2.8 x 0.5 mm	51-366.022DF	3	0.027 kg
		C - A - C	C = 90° / 90°	A	Solder 2.8 x 0.5 mm	51-361.022DF	4	0.027 kg
				C + A + C	Solder 2.8 x 0.5 mm	51-362.022DF	4	0.027 kg
				C + C	Solder 2.8 x 0.5 mm	51-363.022DF	4	0.027 kg
 Keylock switch actuator 3 positions round, flush design								
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	A	Solder 2.8 x 0.5 mm	51-374.022DF	1	0.027 kg
		C - A - B	C = 90°, B = 42°	A	Solder 2.8 x 0.5 mm	51-377.022DF	2	0.027 kg
				C + A	Solder 2.8 x 0.5 mm	51-378.022DF	2	0.027 kg
		B - A - C	B = 42°, C = 90°	A	Solder 2.8 x 0.5 mm	51-375.022DF	3	0.027 kg
				A + C	Solder 2.8 x 0.5 mm	51-376.022DF	3	0.027 kg
		C - A - C	C = 90° / 90°	A	Solder 2.8 x 0.5 mm	51-371.022DF	4	0.027 kg
				C + A + C	Solder 2.8 x 0.5 mm	51-372.022DF	4	0.027 kg
				C + C	Solder 2.8 x 0.5 mm	51-373.022DF	4	0.027 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain



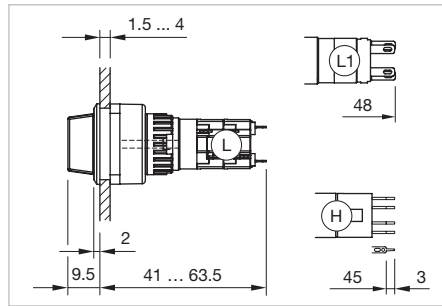
Selector switch 2 positions square, IP 65

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.



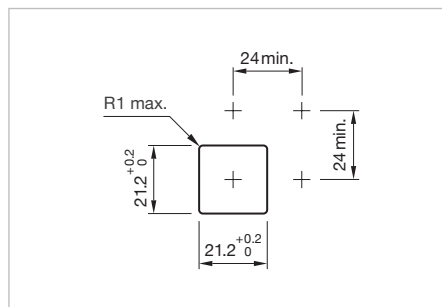
Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



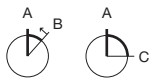
Product can differ from the current configuration.

Additional Information

- For front dimension 24 x 24 mm
- Illuminative



Mounting cut-outs [mm]



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Selector switch actuator 2 positions square, flush design								
Low-level element	1 NC	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-436.036	4	1	0.007 kg
	1 NC + 1 NO	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-433.036	4	2	0.007 kg
	1 NO	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-435.036	4	3	0.007 kg
	2 NC	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-432.036	4	4	0.007 kg
	2 NO	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-431.036	4	5	0.007 kg
	1 NC	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-476.036	4	11	0.007 kg
	1 NC + 1 NO	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-473.036	4	12	0.007 kg
	1 NO	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-475.036	4	13	0.007 kg
	2 NC	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-472.036	4	14	0.007 kg
	2 NO	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-471.036	4	15	0.007 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	Solder	52-131.0252		6	0.006 kg
				Solder 2.8 x 0.5 mm	52-131.022		7	0.006 kg
	2 NC + 2 NO	A - B	B = 42°	Solder	52-132.0252		8	0.006 kg
	3 NC + 3 NO	A - B	B = 42°	Solder	52-133.0252		9	0.006 kg
	4 NC + 4 NO	A - B	B = 42°	Solder	52-134.0252		10	0.006 kg
	1 NC + 1 NO	A - C	C = 90°	Solder	52-271.0252		16	0.006 kg
				Solder 2.8 x 0.5 mm	52-271.022		17	0.006 kg

51 Flush design

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Component layout	Wiring diagram	Weight
Snap-action switching element	2 NC + 2 NO	A - C	C = 90°	Solder	52-272.0252		18	0.006 kg
	3 NC + 3 NO	A - C	C = 90°	Solder	52-273.0252		19	0.006 kg
	4 NC + 4 NO	A - C	C = 90°	Solder	52-274.0252		20	0.006 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain
The component layouts you will find from page 76



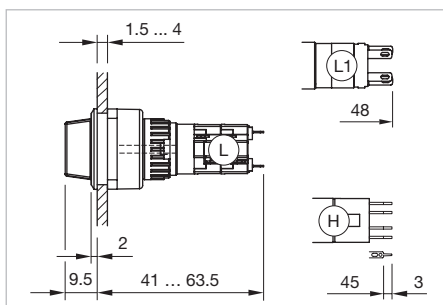


51 Flush design

Selector switch 2 positions round, IP 65



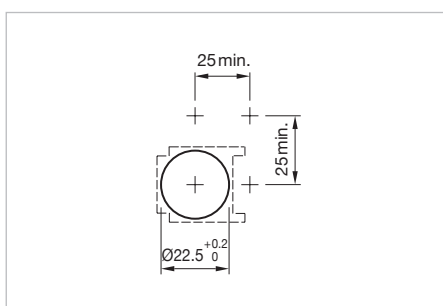
Product can differ from the current configuration.



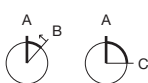
Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm

Additional Information

- For front dimension Ø 25 mm
- Illuminative

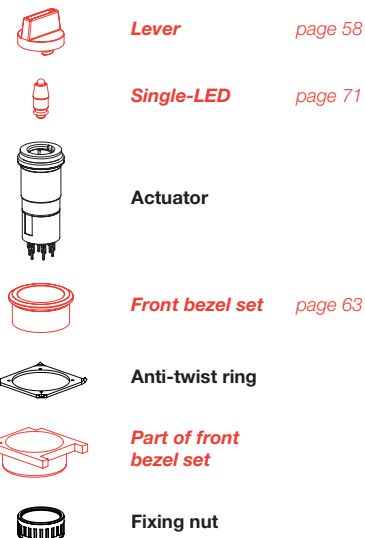


Mounting cut-outs [mm]



Switching positions (A = Rest, B = Momentary, C = Maintained)

Equipment consisting of (schematic overview)



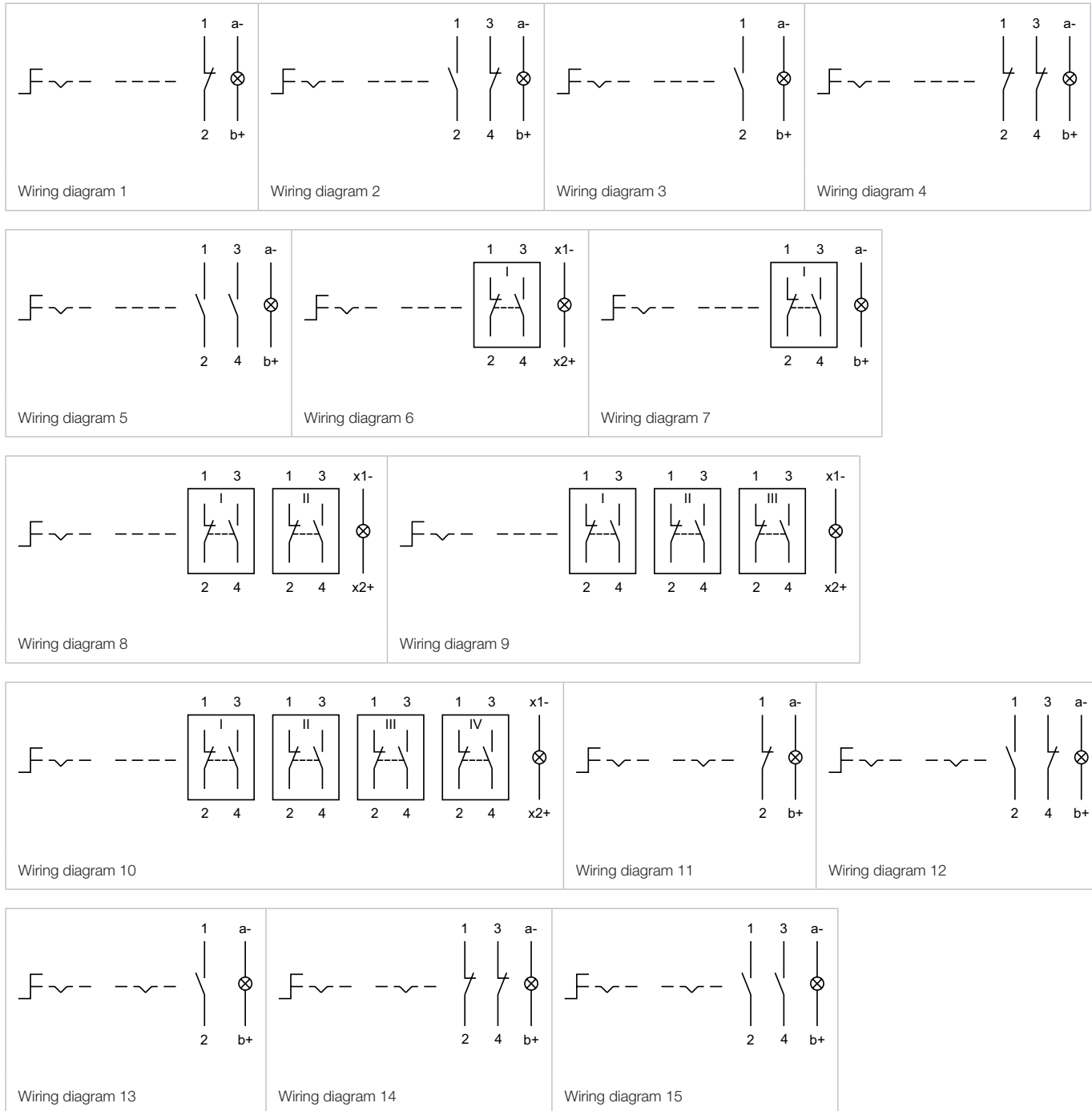
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Selector switch actuator 2 positions round, flush design								
Low-level element	1 NC	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-436.036	4	1	0.007 kg
	1 NC + 1 NO	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-433.036	4	2	0.007 kg
	1 NO	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-435.036	4	3	0.007 kg
	2 NC	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-432.036	4	4	0.007 kg
	2 NO	A - B	B = 42°	Universal 2.0 x 0.5 mm	52-431.036	4	5	0.007 kg
	1 NC	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-476.036	4	11	0.007 kg
	1 NC + 1 NO	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-473.036	4	12	0.007 kg
	1 NO	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-475.036	4	13	0.007 kg
	2 NC	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-472.036	4	14	0.007 kg
	2 NO	A - C	C = 90°	Universal 2.0 x 0.5 mm	52-471.036	4	15	0.007 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	Solder	52-131.0252		6	0.006 kg
				Solder 2.8 x 0.5 mm	52-131.022		7	0.006 kg
	2 NC + 2 NO	A - B	B = 42°	Solder	52-132.0252		8	0.006 kg
	3 NC + 3 NO	A - B	B = 42°	Solder	52-133.0252		9	0.006 kg
	4 NC + 4 NO	A - B	B = 42°	Solder	52-134.0252		10	0.006 kg
	1 NC + 1 NO	A - C	C = 90°	Solder	52-271.0252		16	0.006 kg
				Solder 2.8 x 0.5 mm	52-271.022		17	0.006 kg

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Component layout	Wiring diagram	Weight
Snap-action switching element	2 NC + 2 NO	A - C	C = 90°	Solder	52-272.0252		18	0.006 kg
	3 NC + 3 NO	A - C	C = 90°	Solder	52-273.0252		19	0.006 kg
	4 NC + 4 NO	A - C	C = 90°	Solder	52-274.0252		20	0.006 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain
The component layouts you will find from page 76



51 Flush design



Selector switch 3 positions square, IP 40

Equipment consisting of (schematic overview)

**Lever**page 58

**Single-LED**page 71

**Actuator**

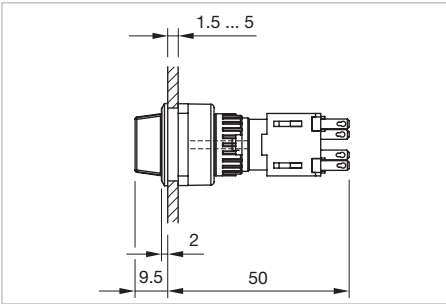
**Front bezel set**page 63

**Fixing nut**

**Switching element**

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

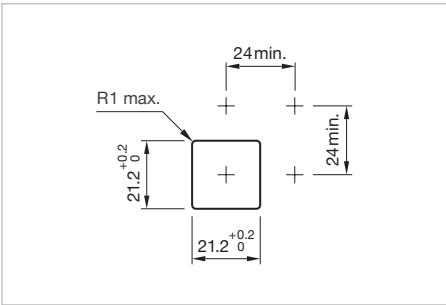
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



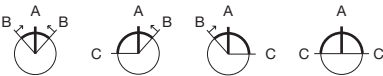
Product can differ from the current configuration.



Mounting cut-outs [mm]

Additional Information

- For front dimension 24 x 24 mm
- Illuminative



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Wiring diagram	Weight
 Selector switch actuator 3 positions square, flush design							
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	Solder 2.8 x 0.5 mm	52-572.022A	1	0.015 kg
		C - A - B	C = 90°, B = 42°	Solder 2.8 x 0.5 mm	52-574.022A	2	0.015 kg
		B - A - C	B = 42°, C = 90°	Solder 2.8 x 0.5 mm	52-573.022A	3	0.015 kg
		C - A - C	C = 90° / 90°	Solder 2.8 x 0.5 mm	52-571.022A	4	0.015 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain

51 Flush design



Selector switch 3 positions round, IP 40

Equipment consisting of (schematic overview)

**Lever**
page 58

**Single-LED**
page 71

**Actuator**

**Front bezel set**
page 63

**Anti-twist ring**

**Part of front bezel set**

**Fixing nut**

**Switching element**



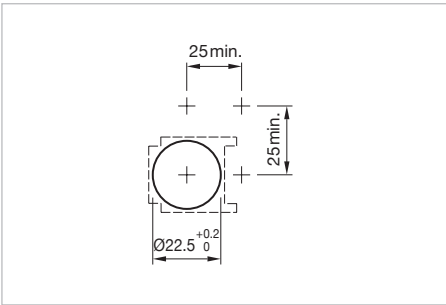
Dimensions [mm]



Product can differ from the current configuration.

Additional Information

- For front dimension Ø 25 mm
- Illuminative



Mounting cut-outs [mm]

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.

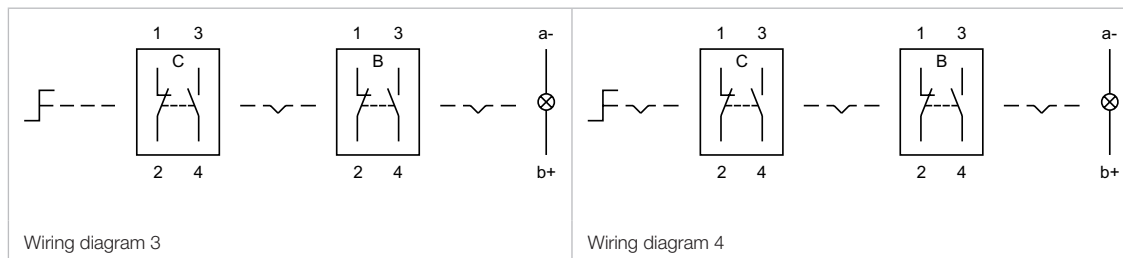
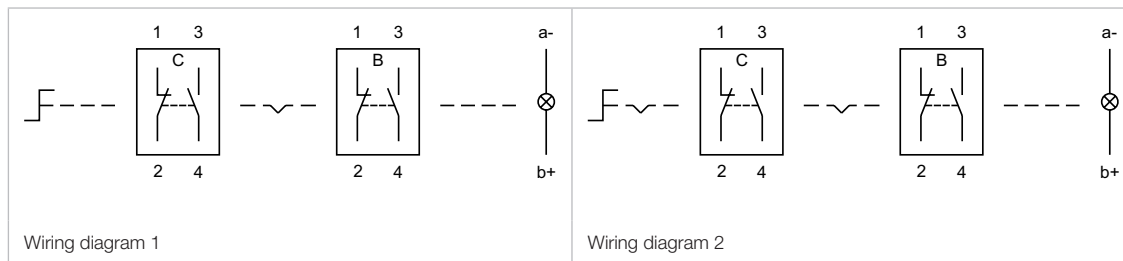


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Wiring diagram	Weight
 Selector switch actuator 3 positions round, flush design							
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	Solder 2.8 x 0.5 mm	52-572.022A	1	0.015 kg
		C - A - B	C = 90°, B = 42°	Solder 2.8 x 0.5 mm	52-574.022A	2	0.015 kg
		B - A - C	B = 42°, C = 90°	Solder 2.8 x 0.5 mm	52-573.022A	3	0.015 kg
		C - A - C	C = 90° / 90°	Solder 2.8 x 0.5 mm	52-571.022A	4	0.015 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain

51 Flush design



Indicator, IP 65

Equipment consisting of (schematic overview)



Lens page 53



Single-LED page 71



Actuator



Fixing nut

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]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.



Mounting cut-outs [mm]

		Terminal	Part No.	Component layout	Wiring diagram	Weight
Diode 1N4007						
						
Indicator actuator, Front dimension 18 x 18 mm						
1		Universal 2.0 x 0.5 mm	51-703.006	4	3	0.006 kg
2		Universal 2.0 x 0.5 mm	51-704.006	4	2	0.006 kg
		Solder 2.8 x 0.5 mm	51-050.002		1	0.004 kg
		Solder	51-050.005		1	0.004 kg
		Universal 2.0 x 0.5 mm	51-051.006	4	1	0.005 kg
						
Indicator actuator, Front dimension 18 x 24 mm						
1		Universal 2.0 x 0.5 mm	51-701.006	4	3	0.006 kg
2		Universal 2.0 x 0.5 mm	51-702.006	4	2	0.006 kg
		Solder 2.8 x 0.5 mm	51-040.002		1	0.004 kg
		Solder	51-040.005		1	0.004 kg
		Universal 2.0 x 0.5 mm	51-041.006	4	1	0.005 kg

51

Raised design

Diode 1N4007	Terminal	Part No.	Compo- nent layout	Wiring diagram	Weight
Indicator actuator, Front dimension Ø 18 mm					
1	Universal 2.0 x 0.5 mm	51-741.006	4	3	0.006 kg
2	Universal 2.0 x 0.5 mm	51-742.006	4	2	0.006 kg
	Solder 2.8 x 0.5 mm	51-030.002		1	0.004 kg
	Solder	51-030.005		1	0.004 kg
	Universal 2.0 x 0.5 mm	51-031.006	4	1	0.005 kg

The component layouts you will find from page 76

a-(x1)  b+(x2) Wiring diagram 1	a-(x1) 3(+) 1(+)  b+(x2) 4(-) 2(-) Wiring diagram 2	a-(x1) 3(+)  b+(x2) 4(-) Wiring diagram 3
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Illuminated pushbutton, IP 65

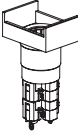
Equipment consisting of (schematic overview)



Lens page 53



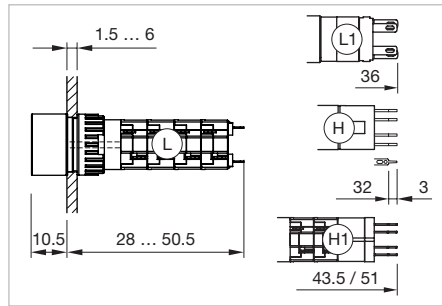
Single-LED page 71



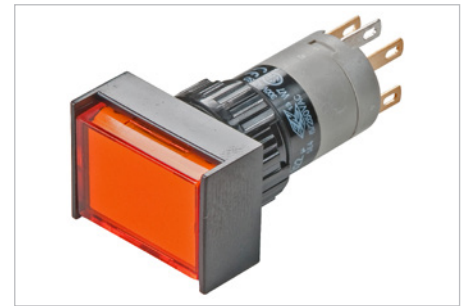
Actuator



Fixing nut



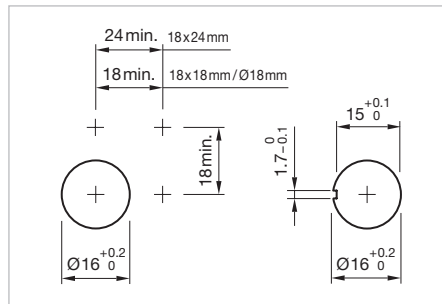
Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
H1 = Universal-Solder terminal,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

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.



Mounting cut-outs [mm]

Switching system	Contacts	Diode 1N4007	Switching action	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Illuminated pushbutton actuator, Front dimension 18 x 18 mm								
Low-level element	1 NC		C	Universal 2.0 x 0.5 mm	51-486.036	4	2	0.007 kg
	1 NC + 1 NO		B	Universal 2.0 x 0.5 mm	51-453.036	4	3	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-483.036	4	4	0.007 kg
	1 NO		B	Universal 2.0 x 0.5 mm	51-455.036	4	5	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-485.036	4	6	0.007 kg
	2 NC		B	Universal 2.0 x 0.5 mm	51-452.036	4	7	0.007 kg
	2 NO		B	Universal 2.0 x 0.5 mm	51-451.036	4	9	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-481.036	4	10	0.007 kg
Snap-action switching element	1 NC + 1 NO	2	C	Universal-Solder	51-718.0292		13	0.008 kg
			B	Universal-Solder	51-710.0292		14	0.008 kg
			B	Solder	51-151.0252		15	0.006 kg
			B	Solder 2.8 x 0.5 mm	51-151.022		16	0.006 kg
			C	Solder	51-281.0252		17	0.006 kg
			C	Solder 2.8 x 0.5 mm	51-281.022		18	0.006 kg
	2 NC + 2 NO	1	C	Universal-Solder	51-719.0292		20	0.010 kg
			B	Universal-Solder	51-712.0292		21	0.010 kg
		2	C	Universal-Solder	51-720.0292		22	0.010 kg
			B	Solder	51-152.0252		23	0.008 kg
			C	Solder	51-282.0252		24	0.008 kg

51 Raised design

						Compo- nent layout	Wiring diagram	
Switching system	Contacts	Diode 1N4007	Switching action	Terminal	Part No.			Weight
Snap-action switching element	3 NC + 3 NO		B	Solder	51-153.0252		25	0.010 kg
			C	Solder	51-283.0252		26	0.010 kg
	4 NC + 4 NO		B	Solder	51-154.0252		27	0.012 kg
			C	Solder	51-284.0252		28	0.012 kg



Illuminated pushbutton actuator, Front dimension 18 x 24 mm

Low-level element	1 NC		B	Universal 2.0 x 0.5 mm	51-426.036	4	1	0.007 kg
	1 NC + 1 NO		B	Universal 2.0 x 0.5 mm	51-423.036	4	3	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-463.036	4	4	0.007 kg
	1 NO		B	Universal 2.0 x 0.5 mm	51-425.036	4	5	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-465.036	4	6	0.007 kg
	2 NC		B	Universal 2.0 x 0.5 mm	51-422.036	4	7	0.007 kg
	2 NO		B	Universal 2.0 x 0.5 mm	51-421.036	4	9	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-461.036	4	10	0.007 kg
Snap-action switching element	1 NC + 1 NO	1	B	Universal-Solder	51-705.0292		11	0.008 kg
		2	C	Universal-Solder	51-714.0292		13	0.008 kg
			B	Universal-Solder	51-706.0292		14	0.008 kg
			B	Solder	51-121.0252		15	0.006 kg
			B	Solder 2.8 x 0.5 mm	51-121.022		16	0.006 kg
			C	Solder	51-261.0252		17	0.006 kg
			C	Solder 2.8 x 0.5 mm	51-261.022		18	0.006 kg
		2 NC + 2 NO	B	Universal-Solder	51-707.0292		19	0.010 kg
			C	Universal-Solder	51-715.0292		20	0.010 kg
		2	B	Universal-Solder	51-708.0292		21	0.010 kg
			C	Universal-Solder	51-716.0292		22	0.010 kg
			B	Solder	51-122.0252		23	0.008 kg
			C	Solder	51-262.0252		24	0.008 kg
	3 NC + 3 NO		B	Solder	51-123.0252		25	0.010 kg
			C	Solder	51-263.0252		26	0.010 kg
	4 NC + 4 NO		B	Solder	51-124.0252		27	0.012 kg
			C	Solder	51-264.0252		28	0.012 kg



Illuminated pushbutton actuator, Front dimension Ø 18 mm

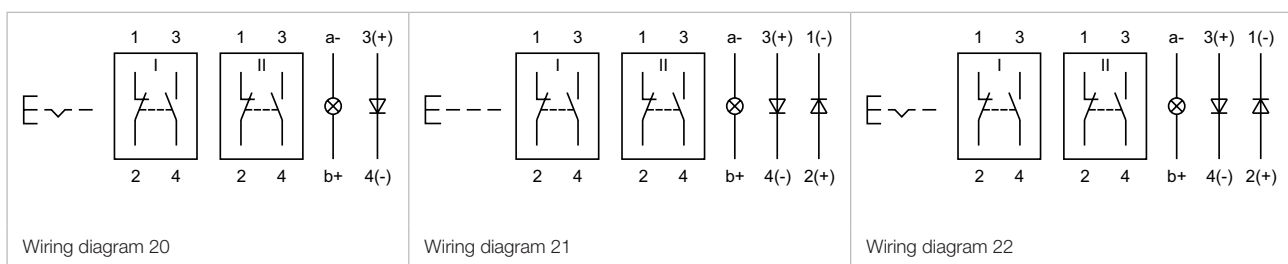
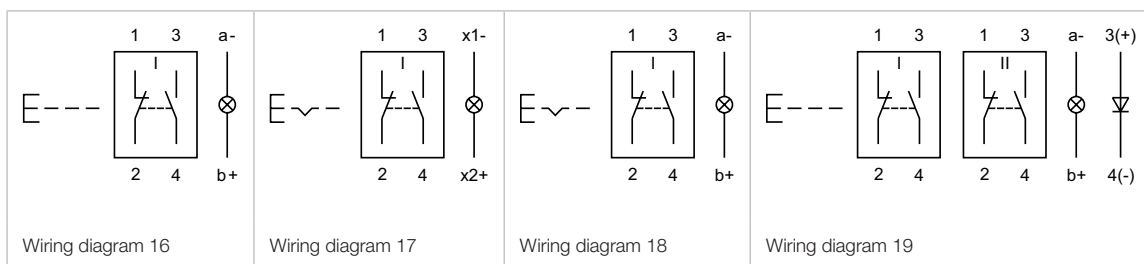
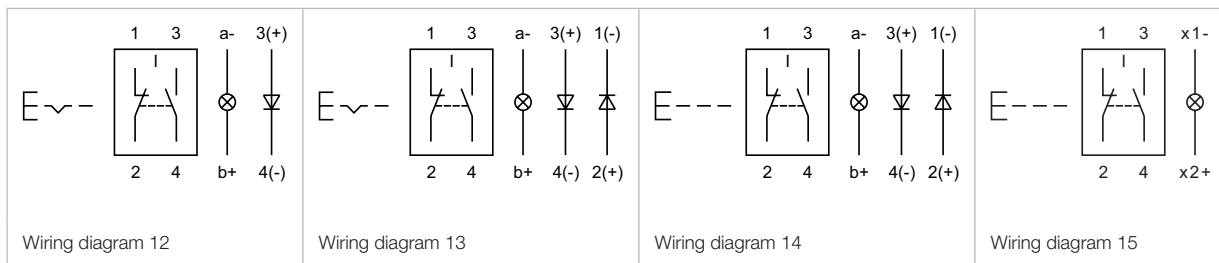
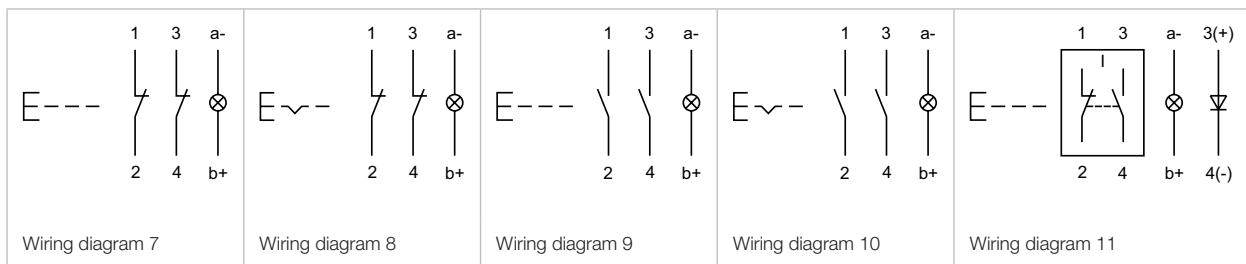
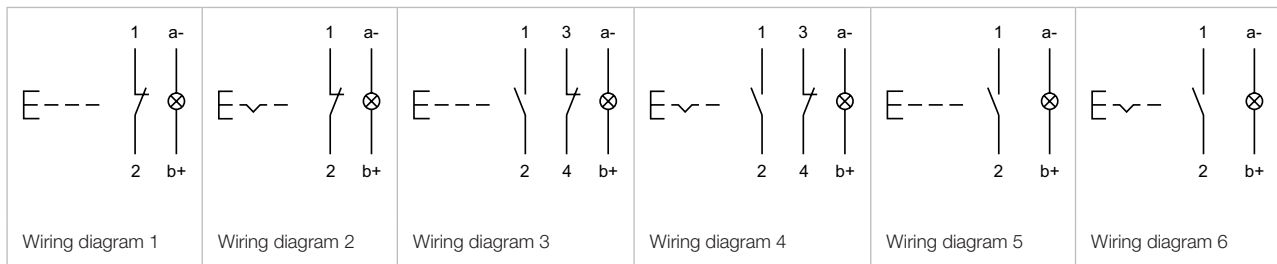
Low-level element	1 NC		B	Universal 2.0 x 0.5 mm	51-436.036	4	1	0.007 kg
	1 NC + 1 NO		B	Universal 2.0 x 0.5 mm	51-433.036	4	3	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-473.036	4	4	0.007 kg
	1 NO		B	Universal 2.0 x 0.5 mm	51-435.036	4	5	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-475.036	4	6	0.007 kg
	2 NO		B	Universal 2.0 x 0.5 mm	51-431.036	4	9	0.007 kg
			C	Universal 2.0 x 0.5 mm	51-471.036	4	10	0.007 kg
	Snap-action switching element	1 NC + 1 NO	1	C	Universal-Solder	51-747.0292		12
			B	Solder	51-131.0252		15	0.006 kg
			B	Solder 2.8 x 0.5 mm	51-131.022		16	0.006 kg
			C	Solder	51-271.0252		17	0.006 kg
			C	Solder 2.8 x 0.5 mm	51-271.022		18	0.006 kg
2 NC + 2 NO		1	C	Universal-Solder	51-749.0292		20	0.010 kg
		2	B	Universal-Solder	51-746.0292		21	0.010 kg
			C	Universal-Solder	51-750.0292		22	0.010 kg

Switching system	Contacts	Diode 1N4007	Switching action	Terminal	Part No.	Component layout	Wiring diagram	Weight
Snap-action switching element	2 NC + 2 NO		B	Solder	51-132.0252		23	0.008 kg
			C	Solder	51-272.0252		24	0.008 kg
	3 NC + 3 NO		B	Solder	51-133.0252		25	0.010 kg
			C	Solder	51-273.0252		26	0.010 kg
	4 NC + 4 NO		B	Solder	51-134.0252		27	0.012 kg
			C	Solder	51-274.0252		28	0.012 kg

Contacts: NC = Normally closed, NO = Normally open

Switching action: B = Momentary, C = Maintain

The component layouts you will find from page 76

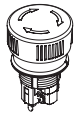


51 Raised design



Stop switch complete, IP 65

Equipment consisting of (schematic overview)



Actuator



Anti-twist ring



Fixing nut

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



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.



Mounting cut-outs [mm]

Additional Information

- Marking arrows
- If the anti-twist ring is not used the panel thickness increases to 4 mm

Lens	Switching system	Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
 Stop switch complete round, 24.5 mm							
Plastic red	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-256.026	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-253.026	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-252.026	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-253.022	1	0.011 kg
		1 NC + 1 NO	C	Solder	51-256.025	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-259.025	2	0.011 kg
Plastic yellow	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-256.0264	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-253.0264	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-252.0264	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-253.0224	1	0.011 kg
		1 NC + 1 NO	C	Solder	51-256.0254	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-259.0254	2	0.011 kg
Plastic green	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-256.0265	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-253.0265	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-252.0265	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-253.0225	1	0.011 kg
		1 NC + 1 NO	C	Solder	51-256.0255	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-259.0255	2	0.011 kg

51 Raised design

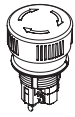
Lens	Switching system	Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
Plastic blue	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-256.0266	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-253.0266	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-252.0266	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-253.0226	1	0.011 kg
		1 NC + 1 NO	C	Solder	51-256.0256	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-259.0256	2	0.011 kg
Plastic grey	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-256.0268	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-253.0268	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-252.0268	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-253.0228	1	0.011 kg
		1 NC + 1 NO	C	Solder	51-256.0258	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-259.0258	2	0.011 kg
Plastic black	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-256.0260	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-253.0260	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-252.0260	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-253.0220	1	0.011 kg
		1 NC + 1 NO	C	Solder	51-256.0250	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-259.0250	2	0.011 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: C = Maintained



Mushroom-head complete, IP 65

Equipment consisting of (schematic overview)



Actuator



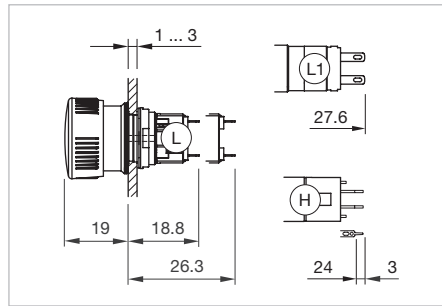
Anti-twist ring



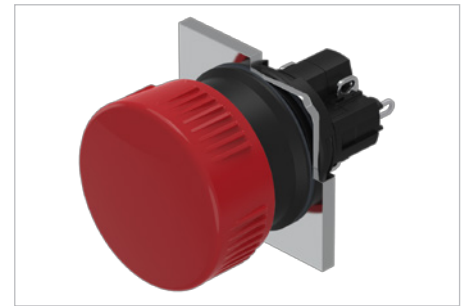
Fixing nut

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]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.



Mounting cut-outs [mm]

Additional Information

- If the anti-twist ring is not used the panel thickness increases to 4 mm

Lens	Switching system	Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
 Mushroom-head complete round, 24.5 mm							
Plastic red	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-156.0262	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-153.0262	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-152.0262	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-153.0222	1	0.011 kg
		1 NC + 1 NO	B	Solder	51-156.0252	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-159.0252	2	0.011 kg
Plastic yellow	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-156.0264	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-153.0264	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-152.0264	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-153.0224	1	0.011 kg
		1 NC + 1 NO	B	Solder	51-156.0254	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-159.0254	2	0.011 kg
Plastic green	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-156.0265	3	0.010 kg
		1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-153.0265	5	0.011 kg
		2 NC	C	Universal 2.0 x 0.5 mm	51-152.0265	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-153.0225	1	0.011 kg
		1 NC + 1 NO	B	Solder	51-156.0255	1	0.011 kg
		2 NC + 2 NO	C	Solder	51-159.0255	2	0.011 kg

51 Raised design

Lens	Switching system	Contacts	Switching action	Terminal	Part No.	Wiring diagram	Weight
Plastic blue	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-156.0266	3	0.010 kg
	Low-level element	1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-153.0266	5	0.011 kg
	Low-level element	2 NC	C	Universal 2.0 x 0.5 mm	51-152.0266	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-153.0226	1	0.011 kg
	Snap-action switching element	1 NC + 1 NO	B	Solder	51-156.0256	1	0.011 kg
	Snap-action switching element	2 NC + 2 NO	C	Solder	51-159.0256	2	0.011 kg
Plastic grey	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-156.0268	3	0.010 kg
	Low-level element	1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-153.0268	5	0.011 kg
	Low-level element	2 NC	C	Universal 2.0 x 0.5 mm	51-152.0268	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-153.0228	1	0.011 kg
	Snap-action switching element	1 NC + 1 NO	B	Solder	51-156.0258	1	0.011 kg
	Snap-action switching element	2 NC + 2 NO	C	Solder	51-159.0258	2	0.011 kg
Plastic black	Low-level element	1 NC	C	Universal 2.0 x 0.5 mm	51-156.0260	3	0.010 kg
	Low-level element	1 NC + 1 NO	C	Universal 2.0 x 0.5 mm	51-153.0260	5	0.011 kg
	Low-level element	2 NC	C	Universal 2.0 x 0.5 mm	51-152.0260	4	0.011 kg
	Snap-action switching element	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	51-153.0220	1	0.011 kg
	Snap-action switching element	1 NC + 1 NO	B	Solder	51-156.0250	1	0.011 kg
	Snap-action switching element	2 NC + 2 NO	C	Solder	51-159.0250	2	0.011 kg

Contacts: NC = Normally closed, NO = Normally open

Switching action: B = Momentary

Switching action: B = Momentary, C = Maintained



Keylock switch 2 positions, IP 65

Equipment consisting of (schematic overview)



Actuator



Anti-twist ring



Fixing nut



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

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



Mounting cut-outs [mm]

Additional Information

- Front plastic black
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Keylock switch 2 positions, Front dimension 18 x 18 mm									
Low-level element	1 NC + 1 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-458.036D	4	1	0.017 kg
	2 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-457.036D	4	2	0.017 kg
	1 NC + 1 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-445.036D	4	7	0.017 kg
				C	Universal 2.0 x 0.5 mm	51-448.036D	4	7	0.017 kg
				A + C	Universal 2.0 x 0.5 mm	51-442.036D	4	7	0.017 kg
	2 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-444.036D	4	8	0.017 kg
				A + C	Universal 2.0 x 0.5 mm	51-441.036D	4	8	0.017 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	A	Solder 2.8 x 0.5 mm	51-145.022D		3	0.016 kg
				A	Solder	51-145.025D2		3	0.016 kg
	2 NC + 2 NO	A - B	B = 42°	A	Solder	51-146.025D2		4	0.016 kg
	4 NC + 4 NO	A - B	B = 42°	A	Solder	51-148.025D2		6	0.016 kg
	1 NC + 1 NO	A - C	C = 90°	A	Solder	51-255.025D2		9	0.016 kg
				C	Solder	51-355.025D2		9	0.016 kg
				A + C	Solder	51-155.025D2		9	0.016 kg
				A	Solder 2.8 x 0.5 mm	51-255.022D		9	0.016 kg
				C	Solder 2.8 x 0.5 mm	51-355.022D		9	0.016 kg

51 Raised design

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Component layout	Wiring diagram	Weight
Snap-action switching element	1 NC + 1 NO	A - C	C = 90°	A + C	Solder 2.8 x 0.5 mm	51-155.022D		9	0.016 kg
	2 NC + 2 NO	A - C	C = 90°	A	Solder	51-256.025D2		10	0.016 kg
				C	Solder	51-356.025D2		10	0.016 kg
				A + C	Solder	51-156.025D2		10	0.016 kg
	3 NC + 3 NO	A - C	C = 90°	A	Solder	51-257.025D2		11	0.016 kg
				A + C	Solder	51-157.025D2		11	0.016 kg
	4 NC + 4 NO	A - C	C = 90°	A	Solder	51-258.025D2		12	0.016 kg
				C	Solder	51-358.025D2		12	0.016 kg
				A + C	Solder	51-158.025D2		12	0.016 kg



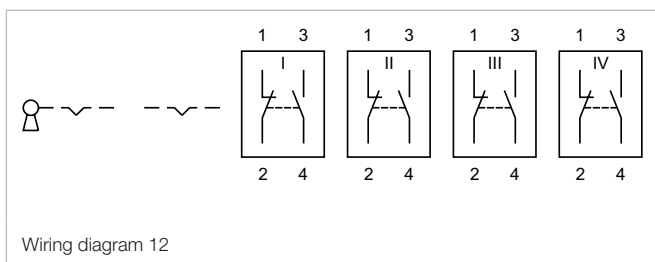
Keylock switch 2 positions, Front dimension 18 x 24 mm

Low-level element	1 NC + 1 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-428.036D	4	1	0.017 kg
	2 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-427.036D	4	2	0.017 kg
	1 NC + 1 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-405.036D	4	7	0.017 kg
				C	Universal 2.0 x 0.5 mm	51-408.036D	4	7	0.017 kg
				A + C	Universal 2.0 x 0.5 mm	51-402.036D	4	7	0.017 kg
	2 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-404.036D	4	8	0.017 kg
				C	Universal 2.0 x 0.5 mm	51-407.036D	4	8	0.017 kg
				A + C	Universal 2.0 x 0.5 mm	51-401.036D	4	8	0.017 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	A	Solder 2.8 x 0.5 mm	51-495.022D		3	0.016 kg
				A	Solder	51-495.025D2		3	0.016 kg
	2 NC + 2 NO	A - B	B = 42°	A	Solder	51-496.025D2		4	0.016 kg
	3 NC + 3 NO	A - B	B = 42°	A	Solder	51-497.025D2		5	0.016 kg
	4 NC + 4 NO	A - B	B = 42°	A	Solder	51-498.025D2		6	0.016 kg
	1 NC + 1 NO	A - C	C = 90°	A	Solder	51-295.025D2		9	0.016 kg
				C	Solder	51-395.025D2		9	0.016 kg
				A + C	Solder	51-195.025D2		9	0.016 kg
				A	Solder 2.8 x 0.5 mm	51-295.022D		9	0.016 kg
				C	Solder 2.8 x 0.5 mm	51-395.022D		9	0.016 kg
				A + C	Solder 2.8 x 0.5 mm	51-195.022D		9	0.016 kg
	2 NC + 2 NO	A - C	C = 90°	A	Solder	51-296.025D2		10	0.016 kg
				C	Solder	51-396.025D2		10	0.016 kg
				A + C	Solder	51-196.025D2		10	0.016 kg
	3 NC + 3 NO	A - C	C = 90°	A	Solder	51-297.025D2		11	0.016 kg
				C	Solder	51-397.025D2		11	0.016 kg
				A + C	Solder	51-197.025D2		11	0.016 kg
	4 NC + 4 NO	A - C	C = 90°	A	Solder	51-298.025D2		12	0.016 kg
				A + C	Solder	51-198.025D2		12	0.016 kg

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Keylock switch 2 positions, Front dimension Ø 18 mm									
Low-level element	1 NC + 1 NO	A - B	B = 42°	A	Universal 2.0 x 0.5 mm	51-438.036D	4	1	0.017 kg
		A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-415.036D	4	7	0.017 kg
				C	Universal 2.0 x 0.5 mm	51-418.036D	4	7	0.017 kg
				A + C	Universal 2.0 x 0.5 mm	51-412.036D	4	7	0.017 kg
	2 NO	A - C	C = 90°	A	Universal 2.0 x 0.5 mm	51-414.036D	4	8	0.017 kg
				A + C	Universal 2.0 x 0.5 mm	51-411.036D	4	8	0.017 kg
Snap-action switching element	1 NC + 1 NO	A - B	B = 42°	A	Solder 2.8 x 0.5 mm	51-141.022D		3	0.016 kg
				A	Solder	51-141.025D2		3	0.016 kg
	2 NC + 2 NO	A - B	B = 42°	A	Solder	51-142.025D2		4	0.016 kg
	3 NC + 3 NO	A - B	B = 42°	A	Solder	51-143.025D2		5	0.016 kg
	4 NC + 4 NO	A - B	B = 42°	A	Solder	51-144.025D2		6	0.016 kg
	1 NC + 1 NO	A - C	C = 90°	A	Solder	51-235.025D2		9	0.016 kg
				C	Solder	51-335.025D2		9	0.016 kg
				A + C	Solder	51-135.025D2		9	0.016 kg
				A	Solder 2.8 x 0.5 mm	51-235.022D		9	0.016 kg
				C	Solder 2.8 x 0.5 mm	51-335.022D		9	0.016 kg
				A + C	Solder 2.8 x 0.5 mm	51-135.022D		9	0.016 kg
	2 NC + 2 NO	A - C	C = 90°	A	Solder	51-236.025D2		10	0.016 kg
				C	Solder	51-336.025D2		10	0.016 kg
				A + C	Solder	51-136.025D2		10	0.016 kg
	3 NC + 3 NO	A - C	C = 90°	A	Solder	51-237.025D2		11	0.016 kg
				A + C	Solder	51-137.025D2		11	0.016 kg
	4 NC + 4 NO	A - C	C = 90°	A	Solder	51-238.025D2		12	0.016 kg
				C	Solder	51-338.025D2		12	0.016 kg
				A + C	Solder	51-138.025D2		12	0.016 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain
The component layouts you will find from page 76

51 Raised design



Keylock switch 3 positions, IP 65

Equipment consisting of (schematic overview)



Actuator



Anti-twist ring



Fixing nut



Switching element

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



Dimensions [mm]



Mounting cut-outs [mm]



Product can differ from the current configuration.

Additional Information

- Front plastic black
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



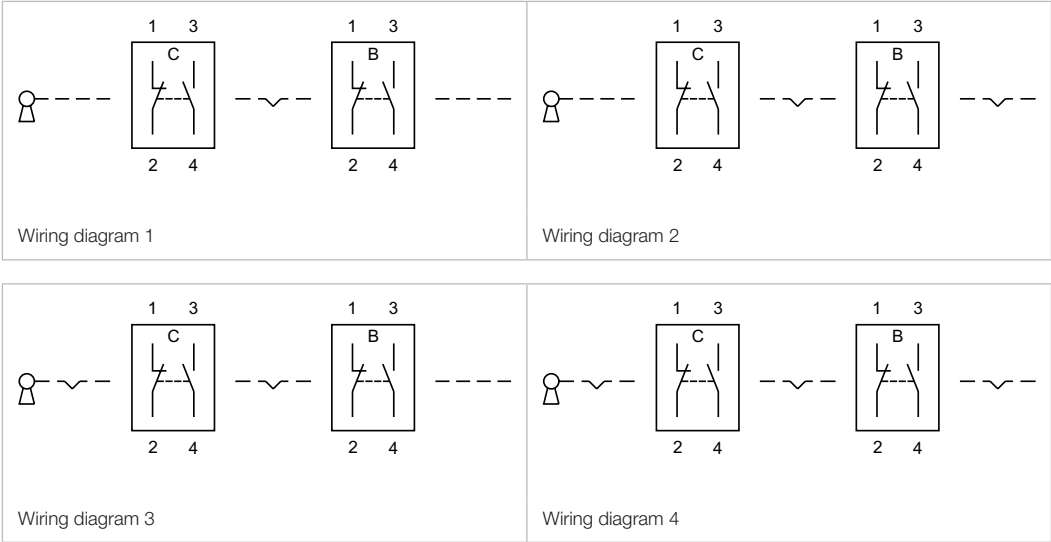
Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Wiring diagram	Weight
 Keylock switch 3 positions, Front dimension 18 x 18 mm								
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	A	Solder 2.8 x 0.5 mm	51-384.022D	1	0.025 kg
		C - A - B	C = 90°, B = 42°	C + A	Solder 2.8 x 0.5 mm	51-388.022D	3	0.025 kg
		B - A - C	B = 42°, C = 90°	A	Solder 2.8 x 0.5 mm	51-385.022D	2	0.025 kg
		C - A - C	C = 90° / 90°	A	Solder 2.8 x 0.5 mm	51-381.022D	4	0.025 kg
				C + A + C	Solder 2.8 x 0.5 mm	51-382.022D	4	0.025 kg
 Keylock switch 3 positions, Front dimension 18 x 24 mm								
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	A	Solder 2.8 x 0.5 mm	51-364.022D	1	0.025 kg
		B - A - C	B = 42°, C = 90°	A	Solder 2.8 x 0.5 mm	51-365.022D	2	0.025 kg
				A + C	Solder 2.8 x 0.5 mm	51-366.022D	2	0.025 kg
		C - A - C	C = 90° / 90°	A	Solder 2.8 x 0.5 mm	51-361.022D	4	0.025 kg
				C + A + C	Solder 2.8 x 0.5 mm	51-362.022D	4	0.025 kg
				C + C	Solder 2.8 x 0.5 mm	51-363.022D	4	0.025 kg

51 Raised design

Switching system	Contacts	Switching action	Switching angle	Key remove	Terminal	Part No.	Wiring diagram	Weight
 Keylock switch 3 positions, Front dimension Ø 18 mm								
Snap-action switching element	2 NC + 2 NO	B - A - B	B = 42° / 42°	A	Solder 2.8 x 0.5 mm	51-374.022D	1	0.025 kg
		C - A - B	C = 90°, B = 42°	A	Solder 2.8 x 0.5 mm	51-377.022D	3	0.025 kg
				C + A	Solder 2.8 x 0.5 mm	51-378.022D	3	0.025 kg
		B - A - C	B = 42°, C = 90°	A + C	Solder 2.8 x 0.5 mm	51-376.022D	2	0.025 kg
		C - A - C	C = 90° / 90°	A	Solder 2.8 x 0.5 mm	51-371.022D	4	0.025 kg
				C + A + C	Solder 2.8 x 0.5 mm	51-372.022D	4	0.025 kg
				C + C	Solder 2.8 x 0.5 mm	51-373.022D	4	0.025 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain



Selector switch 2 positions, IP 65

Equipment consisting of (schematic overview)



Lever page 58



Single-LED page 71



Actuator



Anti-twist ring



Fixing nut



Dimensions [mm]
H = Universal terminal 2.0 x 0.5 mm,
H1 = Universal-Solder terminal,
L = Solder terminal,
L1 = Solder terminal 2.8 x 0.5 mm



Product can differ from the current configuration.

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.



Mounting cut-outs [mm]

Additional Information

- Illuminative



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Diode 1N4007	Switching action	Switching angle	Terminal	Part No.	Component layout	Wiring diagram	Weight
 Low-level element	1 NC		A - B	B = 42°	Universal 2.0 x 0.5 mm	52-436.036	4	1	0.007 kg
	1 NC + 1 NO		A - B	B = 42°	Universal 2.0 x 0.5 mm	52-433.036	4	2	0.007 kg
	1 NO		A - B	B = 42°	Universal 2.0 x 0.5 mm	52-435.036	4	3	0.007 kg
	2 NC		A - B	B = 42°	Universal 2.0 x 0.5 mm	52-432.036	4	4	0.007 kg
	2 NO		A - B	B = 42°	Universal 2.0 x 0.5 mm	52-431.036	4	5	0.007 kg
	1 NC		A - C	C = 90°	Universal 2.0 x 0.5 mm	52-476.036	4	15	0.007 kg
	1 NC + 1 NO		A - C	C = 90°	Universal 2.0 x 0.5 mm	52-473.036	4	16	0.007 kg
	1 NO		A - C	C = 90°	Universal 2.0 x 0.5 mm	52-475.036	4	17	0.007 kg
	2 NC		A - C	C = 90°	Universal 2.0 x 0.5 mm	52-472.036	4	18	0.007 kg
	2 NO		A - C	C = 90°	Universal 2.0 x 0.5 mm	52-471.036	4	19	0.007 kg
Snap-action switching element	1 NC + 1 NO	1	A - B	B = 42°	Universal-Solder	52-743.0292		6	0.008 kg
		2	A - B	B = 42°	Universal-Solder	52-744.0292		7	0.008 kg
			A - B	B = 42°	Solder	52-131.0252		8	0.006 kg
			A - B	B = 42°	Solder 2.8 x 0.5 mm	52-131.022		9	0.006 kg

51 Raised design

Switching system	Contacts	Diode 1N4007	Switching action	Switching angle	Terminal	Part No.	Component layout	Wiring diagram	Weight
Snap-action switching element	2 NC + 2 NO	1	A - B	B = 42°	Universal-Solder	52-745.0292		10	0.010 kg
		2	A - B	B = 42°	Universal-Solder	52-746.0292		11	0.010 kg
			A - B	B = 42°	Solder	52-132.0252		12	0.006 kg
	3 NC + 3 NO		A - B	B = 42°	Solder	52-133.0252		13	0.006 kg
	4 NC + 4 NO		A - B	B = 42°	Solder	52-134.0252		14	0.006 kg
	1 NC + 1 NO	1	A - C	C = 90°	Universal-Solder	52-747.0292		20	0.008 kg
		2	A - C	C = 90°	Universal-Solder	52-748.0292		21	0.008 kg
			A - C	C = 90°	Solder	52-271.0252		22	0.006 kg
			A - C	C = 90°	Solder 2.8 x 0.5 mm	52-271.022		23	0.006 kg
	2 NC + 2 NO	1	A - C	C = 90°	Universal-Solder	52-749.0292		24	0.010 kg
		2	A - C	C = 90°	Universal-Solder	52-750.0292		25	0.010 kg
			A - C	C = 90°	Solder	52-272.0252		26	0.006 kg
	3 NC + 3 NO		A - C	C = 90°	Solder	52-273.0252		27	0.006 kg
	4 NC + 4 NO		A - C	C = 90°	Solder	52-274.0252		28	0.006 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain
The component layouts you will find from page 76





Wiring diagram 13



Wiring diagram 14



Wiring diagram 15



Wiring diagram 16



Wiring diagram 17



Wiring diagram 18



Wiring diagram 19



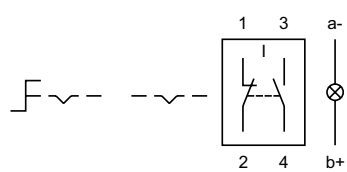
Wiring diagram 20



Wiring diagram 21



Wiring diagram 22



Wiring diagram 23



Wiring diagram 24



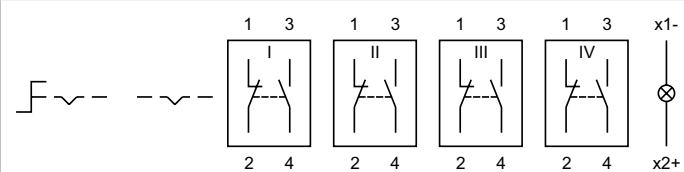
Wiring diagram 25



Wiring diagram 26



Wiring diagram 27



Wiring diagram 28

51 Raised design

Selector switch 3 positions, IP 65



Product can differ from the current configuration.



Dimensions [mm]

Equipment consisting of (schematic overview)



Lever page 58



Single-LED page 71



Actuator



Anti-twist ring



Fixing nut



Switching element

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

- Illuminative



Mounting cut-outs [mm]



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching system	Contacts	Switching action	Switching angle	Terminal	Part No.	Wiring diagram	Weight
 Selector switch 3 positions, Front dimension Ø 18 mm	2 NC + 2 NO	B - A - B	B = 42° / 42°	Solder 2.8 x 0.5 mm	52-572.022A	1	0.015 kg
		C - A - B	C = 90°, B = 42°	Solder 2.8 x 0.5 mm	52-574.022A	2	0.015 kg
		B - A - C	B = 42°, C = 90°	Solder 2.8 x 0.5 mm	52-573.022A	3	0.015 kg
		C - A - C	C = 90° / 90°	Solder 2.8 x 0.5 mm	52-571.022A	4	0.015 kg

Contacts: NC = Normally closed, NO = Normally open
Switching action: A = Rest, B = Momentary, C = Maintain



51 Raised design

Front

Lens flush design

Additional Information

- Lens surface mat
- Lens profile flat

Product attribute	Dimension	Lens	Part No.	Weight
 Lens plastic, flush design				
illuminative	18 x 18 mm	smoked transparent	61-9671.1	0.002 kg
		red transparent	61-9671.2	0.002 kg
		orange transparent	61-9671.3	0.002 kg
		yellow transparent	61-9671.4	0.002 kg
		green transparent	61-9671.5	0.002 kg
		blue transparent	61-9671.6	0.002 kg
		colourless transparent	61-9671.7	0.002 kg
non-illuminative	18 x 18 mm	black opaque	61-9771.0	0.002 kg
		grey opaque	61-9771.8	0.002 kg
		white translucent	61-9771.9	0.002 kg
 Lens plastic, flush design				
illuminative	18 x 24 mm	smoked transparent	61-9681.1	0.002 kg
		red transparent	61-9681.2	0.002 kg
		orange transparent	61-9681.3	0.002 kg
		yellow transparent	61-9681.4	0.002 kg
		green transparent	61-9681.5	0.002 kg
		blue transparent	61-9681.6	0.002 kg
		colourless transparent	61-9681.7	0.002 kg
non-illuminative	18 x 24 mm	black opaque	61-9781.0	0.002 kg
		white translucent	61-9781.9	0.002 kg
 Lens plastic, flush design				
illuminative	Ø 19.7 mm	smoked transparent	61-9642.1	0.002 kg
		red transparent	61-9642.2	0.002 kg
		orange transparent	61-9642.3	0.002 kg
		yellow transparent	61-9642.4	0.002 kg
		green transparent	61-9642.5	0.002 kg
		blue transparent	61-9642.6	0.002 kg
		colourless transparent	61-9642.7	0.002 kg

Lens raised design

Product attribute	Dimension	Lens	Part No.	Weight
 Lens plastic, raised design				
flat, illuminative	15.3 x 15.3 mm	smoked transparent	51-953.1	0.001 kg
		red transparent	51-953.2	0.001 kg
		orange transparent	51-953.3	0.001 kg
		yellow transparent	51-953.4	0.001 kg
		green transparent	51-953.5	0.001 kg
		blue transparent	51-953.6	0.001 kg
		colourless transparent	51-953.7	0.001 kg
flat, illuminative, not suitable for film insert	15.3 x 15.3 mm	red translucent	51-951.2	0.001 kg
		orange translucent	51-951.3	0.001 kg
		yellow translucent	51-951.4	0.001 kg
		green translucent	51-951.5	0.001 kg
		blue translucent	51-951.6	0.001 kg
		white translucent	51-951.9	0.001 kg
flat, illuminative, less suitable for film insert	15.3 x 15.3 mm	red transparent	51-955.2	0.001 kg
		yellow transparent	51-955.4	0.001 kg
		green transparent	51-955.5	0.001 kg
		colourless transparent	51-955.7	0.001 kg
flat, non-illuminative	15.3 x 15.3 mm	black opaque	51-951.0	0.001 kg
		grey opaque	51-951.8	0.001 kg
 Lens plastic, raised design				
concave, illuminative	15.3 x 15.3 mm	red transparent	51-954.2	0.001 kg
		orange transparent	51-954.3	0.001 kg
		yellow transparent	51-954.4	0.001 kg
		green transparent	51-954.5	0.001 kg
		blue transparent	51-954.6	0.001 kg
		colourless transparent	51-954.7	0.001 kg
 Lens plastic, raised design				
flat, illuminative	15.3 x 21.5 mm	smoked transparent	51-903.1	0.001 kg
		red transparent	51-903.2	0.001 kg
		orange transparent	51-903.3	0.001 kg
		yellow transparent	51-903.4	0.001 kg
		green transparent	51-903.5	0.001 kg
		blue transparent	51-903.6	0.001 kg
		colourless transparent	51-903.7	0.001 kg

51 Raised design

Product attribute	Dimension	Lens	Part No.	Weight
flat, illuminative, not suitable for film insert	15.3 x 21.5 mm	red translucent	51-901.2	0.001 kg
		orange translucent	51-901.3	0.001 kg
		yellow translucent	51-901.4	0.001 kg
		green translucent	51-901.5	0.001 kg
		blue translucent	51-901.6	0.001 kg
		white translucent	51-901.9	0.001 kg
flat, illuminative, less suitable for film insert	15.3 x 21.5 mm	red transparent	51-905.2	0.001 kg
		yellow transparent	51-905.4	0.001 kg
		green transparent	51-905.5	0.001 kg
		colourless transparent	51-905.7	0.001 kg
flat, non-illuminative	15.3 x 21.5 mm	black opaque	51-901.0	0.001 kg
		grey opaque	51-901.8	0.001 kg
 Lens plastic, raised design				
concave, illuminative	15.3 x 21.5 mm	red transparent	51-904.2	0.001 kg
		orange transparent	51-904.3	0.001 kg
		yellow transparent	51-904.4	0.001 kg
		green transparent	51-904.5	0.001 kg
		blue transparent	51-904.6	0.001 kg
		colourless transparent	51-904.7	0.001 kg
concave, illuminative, less suitable for film insert	15.3 x 21.5 mm	red transparent	51-906.2	0.001 kg
		yellow transparent	51-906.4	0.001 kg
		green transparent	51-906.5	0.001 kg
		colourless transparent	51-906.7	0.001 kg
 Lens plastic, raised design				
flat, illuminative	Ø 15.8 mm	smoked transparent	51-933.1	0.001 kg
		red transparent	51-933.2	0.001 kg
		orange transparent	51-933.3	0.001 kg
		yellow transparent	51-933.4	0.001 kg
		green transparent	51-933.5	0.001 kg
		blue transparent	51-933.6	0.001 kg
		colourless transparent	51-933.7	0.001 kg
flat, illuminative, not suitable for film insert	Ø 15.8 mm	red translucent	51-931.2	0.001 kg
		orange translucent	51-931.3	0.001 kg
		yellow translucent	51-931.4	0.001 kg
		green translucent	51-931.5	0.001 kg
		blue translucent	51-931.6	0.001 kg
		white translucent	51-931.9	0.001 kg
flat, illuminative, less suitable for film insert	Ø 15.8 mm	red transparent	51-935.2	0.001 kg
		yellow transparent	51-935.4	0.001 kg
		green transparent	51-935.5	0.001 kg
		colourless transparent	51-935.7	0.001 kg
flat, non-illuminative	Ø 15.8 mm	black opaque	51-931.0	0.001 kg
		grey opaque	51-931.8	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	Symbol	Part No.	Weight
 Lens plastic with symbol, flush design				
Ø 19.7 mm	red transparent	Ring	61-9643.201	0.002 kg
	orange transparent	Ring	61-9643.301	0.002 kg
	yellow transparent	Ring	61-9643.401	0.002 kg
	green transparent	Ring	61-9643.501	0.002 kg
	blue transparent	Ring	61-9643.601	0.002 kg
	colourless transparent	Ring	61-9643.701	0.002 kg
 Lens plastic with symbol, flush design				
Ø 19.7 mm	red transparent	ON/OFF	61-9643.202	0.002 kg
	green transparent	ON/OFF	61-9643.502	0.002 kg
	blue transparent	ON/OFF	61-9643.602	0.002 kg
	colourless transparent	ON/OFF	61-9643.702	0.002 kg
 Lens plastic with symbol, flush design				
Ø 19.7 mm	red transparent	Stand by	61-9643.203	0.002 kg
	green transparent	Stand by	61-9643.503	0.002 kg
	blue transparent	Stand by	61-9643.603	0.002 kg
	colourless transparent	Stand by	61-9643.703	0.002 kg

Marking plate**Additional Information**

- Can be hot stamped
- Only applicable with lens round
Part No. 61-9642.X

Marking plate	Part No.	Weight
 Marking plate for lens plastic round, flush design		
colourless transparent	61-9707.7	0.001 kg

Lens metal with spot

Additional Information

- Lens surface mat
- Lens profile flat
- Illuminative

Dimension	Lens	Part No.	Weight
 Lens metal with spot, flush design			
Ø 19.7 mm	Aluminium black anodized	61-9841.0A	0.002 kg
	Aluminium red anodized	61-9841.2A	0.002 kg
	Aluminium gold anodized	61-9841.4A	0.002 kg
	Aluminium olive-green anodized	61-9841.5A	0.002 kg
	Aluminium blue anodized	61-9841.6A	0.002 kg
	Aluminium natural anodized	61-9841.8A	0.002 kg

Lens metal

Additional Information

- Lens surface mat
- Non-illuminative
- The colour of anodized aluminium parts can vary due to technical production reasons

Product attribute	Dimension	Lens	Part No.	Weight
 Lens metal, flush design				
flat	Ø 19.7 mm	Aluminium black anodized	61-9841.0	0.002 kg
		Aluminium red anodized	61-9841.2	0.002 kg
		Aluminium gold anodized	61-9841.4	0.002 kg
		Aluminium olive-green anodized	61-9841.5	0.002 kg
		Aluminium blue anodized	61-9841.6	0.002 kg
		Aluminium natural anodized	61-9841.8	0.002 kg
 Lens metal, flush design				
convex (domed)	Ø 19.7 mm	Aluminium black anodized	61-9842.0	0.003 kg
		Aluminium red anodized	61-9842.2	0.003 kg
		Aluminium olive-green anodized	61-9842.5	0.003 kg
		Aluminium blue anodized	61-9842.6	0.003 kg
		Aluminium natural anodized	61-9842.8	0.003 kg

Mushroom-head cap**Additional Information**

- Non-illuminative

Mushroom-head cap	Part No.	Weight
 Mushroom-head cap, flush design, Front dimension Ø 32 mm		
Plastic black	61-9593.0	0.004 kg
Plastic red	61-9593.2	0.004 kg
Plastic yellow	61-9593.4	0.004 kg
Plastic green	61-9593.5	0.004 kg

Front bezel for selector switch square**Additional Information**

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

Dimension	Front bezel	Part No.	Weight
 Front bezel for selector switch square, raised design			
24 x 24 mm	Plastic black	52-950.0	0.001 kg
26 x 26 mm	Plastic black	52-952.0	0.001 kg

Lever flush design

Additional Information

- With bar and marking dot

Lever illumination	Lever	Bar colour	Part No.	Weight
 Lever flush design				
illuminative	Plastic black	red	61-9028.20	0.001 kg
		yellow	61-9028.40	0.001 kg
		green	61-9028.50	0.001 kg
		blue	61-9028.60	0.001 kg
	Plastic grey	red	61-9029.20	0.001 kg
		orange	61-9029.30	0.001 kg
		yellow	61-9029.40	0.001 kg
non-illuminative	Plastic black	black	61-9028.0	0.001 kg
		white	61-9028.9	0.001 kg
	Plastic grey	grey	61-9029.8	0.001 kg
		white	61-9029.9	0.001 kg

Lever raised design

Additional Information

- With bar and marking dot

Lever illumination	Lever	Bar colour	Part No.	Weight
 Lever raised design				
illuminative	Plastic black	red	52-928.20	0.001 kg
	Plastic black	orange	52-928.30	0.001 kg
	Plastic black	yellow	52-928.40	0.001 kg
	Plastic black	green	52-928.50	0.001 kg
	Plastic black	blue	52-928.60	0.001 kg
	Plastic grey	red	52-929.20	0.001 kg
	Plastic grey	orange	52-929.30	0.001 kg
	Plastic grey	yellow	52-929.40	0.001 kg
	Plastic grey	green	52-929.50	0.001 kg
	Plastic grey	blue	52-929.60	0.001 kg
non-illuminative	Plastic black	black	52-928.0	0.001 kg
	Plastic black	white	52-928.9	0.001 kg
	Plastic grey	grey	52-929.8	0.001 kg
	Plastic grey	white	52-929.9	0.001 kg

Legend frame**Additional Information**

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



Dimensions [mm]

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

Front bezel set

Additional Information

- The dimensions of the mounting cut-outs are shown in the product details
- The colour of anodized aluminium parts can vary due to technical production reasons

Mounting cut-out	Front bezel	Part No.	Weight
 Front bezel set for indicator and illuminated pushbutton, flush design, Front dimension 24 x 24 mm			
21 x 21 mm	Plastic black	61-9930.0	0.008 kg
	Plastic silver	61-9930.4	0.008 kg
 Front bezel set for indicator and illuminated pushbutton, flush design, Front dimension 24 x 30 mm			
21 x 27 mm	Plastic black	61-9931.0	0.008 kg
	Plastic silver	61-9931.4	0.008 kg
 Front bezel set for indicator and illuminated pushbutton, flush design, Front dimension Ø 25 mm			
Ø 22.5 mm	Aluminium natural anodized	61-9933.0	0.006 kg
	Aluminium black anodized	61-9933.1	0.006 kg
	Aluminium red anodized	61-9933.2	0.006 kg
	Aluminium gold anodized	61-9933.4	0.006 kg
	Aluminium olive-green anodized	61-9933.5	0.006 kg
	Aluminium blue anodized	61-9933.6	0.006 kg
	Plastic black	61-9933.10	0.008 kg

Front bezel set**Additional Information**

- Please note that bigger minimum distances are necessary
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Mounting cut-out	Front bezel	Part No.	Weight
 Front bezel set for mushroom-head pushbutton, flush design				
Ø 25 mm	Ø 22.5 mm	Aluminium natural anodized	61-9933.0	0.006 kg
		Aluminium black anodized	61-9933.1	0.006 kg
		Plastic black	61-9933.10	0.008 kg
		Aluminium red anodized	61-9933.2	0.006 kg
		Aluminium gold anodized	61-9933.4	0.006 kg
		Aluminium olive-green anodized	61-9933.5	0.006 kg
		Aluminium blue anodized	61-9933.6	0.006 kg
 Front bezel set for mushroom-head pushbutton, flush design, Front dimension Ø 40 mm				
	Ø 22.5 mm	Aluminium natural anodized	61-9934.8	0.013 kg

Front bezel set keylock switch

Additional Information

- The Dimensions [mm] of the Mounting cut-outs [mm] are shown in the product details
- For the round front bezel sets the anti-twist ring is part of the sales-package
- The colour of anodized aluminium parts can vary due to technical production reasons

Mounting cut-out	Front bezel	Part No.	Weight
 Front bezel set for keylock switch, flush design, Front dimension 24 x 24 mm			
	Plastic black	61-9930.0	0.008 kg
	Plastic silver	61-9930.4	0.008 kg
 Front bezel set for keylock switch, flush design, Front dimension 24 x 30 mm			
	Plastic black	61-9931.0	0.008 kg
	Plastic silver	61-9931.4	0.008 kg
 Front bezel set for keylock switch, flush design, Front dimension Ø 25 mm			
	Aluminium natural anodized	61-9932.0	0.006 kg
	Aluminium black anodized	61-9932.1	0.006 kg
	Aluminium red anodized	61-9932.2	0.006 kg
	Aluminium gold anodized	61-9932.4	0.006 kg
	Aluminium olive-green anodized	61-9932.5	0.006 kg
	Aluminium blue anodized	61-9932.6	0.006 kg
	Plastic black	61-9932.10	0.008 kg

Front bezel set for selector switch

Additional Information

- The dimensions of the mounting cut-outs are shown in the product details
- For the round front bezel sets the anti-twist ring is part of the sales-package
- The colour of anodized aluminium parts can vary due to technical production reasons

Mounting cut-out	Front bezel	Part No.	Weight
 Front bezel set for selector switch, flush design, Front dimension 24 x 24 mm			
21 x 21 mm	Plastic black	61-9936.0	0.007 kg
 Front bezel set for selector switch, flush design, Front dimension Ø 25 mm			
Ø 22.5 mm	Aluminium natural anodized	61-9932.0	0.006 kg
	Aluminium black anodized	61-9932.1	0.006 kg
	Aluminium red anodized	61-9932.2	0.006 kg
	Aluminium gold anodized	61-9932.4	0.006 kg
	Aluminium olive-green anodized	61-9932.5	0.006 kg
	Aluminium blue anodized	61-9932.6	0.006 kg
	Plastic black	61-9932.10	0.008 kg

Front protective cap, IP 68

Additional Information

- For lenses with flat profile only
- When using the front protection cover for push buttons the external sealing in the front bezel set and the silicone bellows in the actuator are to be removed

Product attribute	Material	Colour	Optics	Part No.	Weight
 Front protective cap					
for front bezel set 24 x 30 mm, flush design	Silicone	colourless	transparent	61-9927.2	0.001 kg
 Front protective cap					
for front bezel set Ø 25 mm, flush design	Silicone	colourless	transparent	84-9103.7	0.001 kg

Protective cover flush design, IP 65

Additional Information

- The Dimensions [mm] of the Mounting cut-outs [mm] are shown in the product details
- Please note that bigger minimum distances are necessary



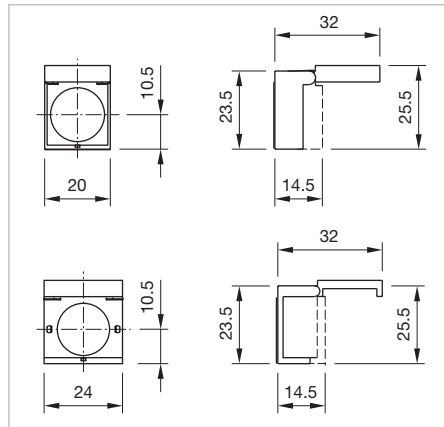
Dimensions [mm]

Product attribute	Dimension	Mounting cut-out	Material	Optics	Part No.	Weight
 Protective cover flush design						
hinged, with means for sealing	24 x 24 mm	21 x 21 mm	Plastic	transparent	61-9921.0	0.006 kg
 Protective cover flush design						
hinged, with means for sealing	24 x 30 mm	21 x 27 mm	Plastic	transparent	61-9922.0	0.006 kg
 Protective cover flush design						
slide by side, with means not for sealing	Ø 25 mm	Ø 22.5 mm	Plastic	transparent	61-9924.0	0.006 kg

Protective cover raised design, IP 65

Additional Information

- Hinged, with means for sealing
- The dimensions of the mounting cut-outs are shown in the product details
- Please note that bigger minimum distances are necessary



Dimensions [mm]

Dimension	Mounting cut-out	Material	Optics	Part No.	Weight
 Protective cover raised design					
18 x 18 mm	Ø 16 mm	Plastic	transparent	51-920	0.002 kg
 Protective cover raised design					
18 x 24 mm	Ø 16 mm	Plastic	transparent	51-925	0.002 kg

Blind plug flush design

Additional Information

- The dimensions of the mounting cut-outs are shown in the product details

Dimension	Mounting cut-out	Material	Colour	Part No.	Weight
 Blind plug flush design					
24 x 24 mm	21 x 21 mm	Plastic	black	61-9451.0	0.006 kg
 Blind plug flush design					
24 x 30 mm	21 x 27 mm	Plastic	black	61-9452.0	0.006 kg
 Blind plug flush design					
Ø 25 mm	Ø 22.5 mm	Plastic	black	61-9453.0	0.006 kg

51 Accessories

Blind plug raised design

Additional Information

- The dimensions of the mounting cut-outs are shown in the product details
- Blind plugs fit also in mounting cut-outs with anti-twist device

Dimension	Mounting cut-out	Material	Colour	Part No.	Weight
 Blind plug raised design					
18 x 18 mm	Ø 16 mm	Plastic	black	51-948.0	0.003 kg
 Blind plug raised design					
18 x 24 mm	Ø 16 mm	Plastic	black	51-947.0	0.003 kg
 Blind plug raised design					
Ø 18 mm	Ø 16 mm	Plastic	black	51-949.0	0.003 kg

Master key

Additional Information

- For standard lock: DOM 311 ... 445

Part No.	Weight
 Master key	
31-989.300	0.006 kg

Spare key

Additional Information

- For standard lock: DOM 311
- Optional lock numbers on request

Part No.	Weight
 Spare key	
31-989.311	0.006 kg

EMC key protection cap

Additional Information

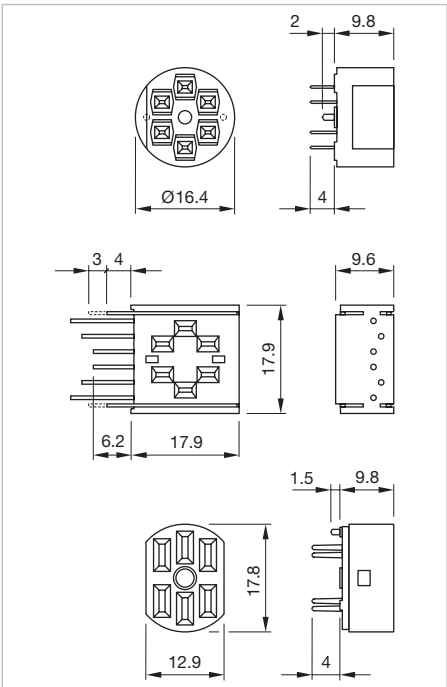
- Plastic black
- For standard lock: DOM

Part No.	Weight
 EMC key protection cap	
31-985.0	0.005 kg

PCB plug-in base

Additional Information

- PCB plug-in base pins right-angle: With the extendable mounting the distance between plug-in base and PCB can be varied up to 3 mm



Dimensions

Product attribute	Pins	Terminal	Part No.	Component layout	Weight
 PCB plug-in base for low level switching element	axial	PCB	31-940	3	0.002 kg
 PCB plug-in base for low level switching element	right-angled	PCB	31-941	1	0.004 kg
 PCB plug-in base for snap-action switching element 2.8 mm	axial	PCB	31-942	2	0.002 kg

The component layouts you will find from page 76

Multi-plug housing

Additional Information

- For switching block

Part No.		Weight
 Multi-plug housing		
51-943.0		0.005 kg

Flat receptacle

Product attribute	Part No.	Weight
 Flat receptacle 2.0 x 0.5 mm plug-in terminal	31-945	0.001 kg
 Flat receptacle 2.8 x 0.5 mm plug-in terminal	31-946	0.001 kg
 Flat receptacle 2.8 x 0.5 mm multi-plug housing	51-943.1	0.001 kg

Insulation sleeve

Product attribute	Part No.	Weight
 Insulation sleeve Cover plug-in terminals for snap-action switching element 2.8 mm	01-928	0.001 kg
 Insulation sleeve for flat receptacle 2.0 mm	31-928	0.001 kg
 Insulation sleeve for flat receptacle 2.8 mm	31-929	0.001 kg

Terminal cover

Part No.	Weight
 Terminal cover for snap-action switching element 16 01-929	0.010 kg

Illumination**LED, T1 3/4 MG****Additional Information**

- Due to high surface temperatures, the series resistor must not be soldered directly to the terminals of the equipment (use a terminal plate)• When using AC/DC types with AC operation, slight flickering can occur
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- When using AC/DC types with AC operation, slight flickering can occur
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination
- For supply voltages above 48 V, it is necessary to use a voltage reduction element (external series resistor or transformer)
- If the 24VDC Bi-colour lamp is driven with normal polarity (plus on middle contact of the lamp) the first mentioned colour will light up, with inverted polarity the second colour will light up



Dimensions [mm]

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 Single-LED						
red	6 VDC +10 %	15 mA ±15 %	350 mcd	630 nm	10-2J06.3142	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2J09.1062	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2J12.1062	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	10-2J13.1062	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	10-2J19.1042	0.002 kg
yellow	6 VDC +10 %	15 mA ±15 %	300 mcd	587 nm	10-2J06.3144	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2J09.1064	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2J12.1064	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	10-2J13.1064	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	587 nm	10-2J19.1044	0.002 kg
green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	10-2J06.3145	0.002 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2J09.1065	0.002 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2J12.1065	0.002 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	10-2J13.1065	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	10-2J19.1045	0.002 kg
blue	6 VDC +10 %	15 mA ±15 %	680 mcd	470 nm	10-2J06.3146	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2J09.1066	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2J12.1066	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	10-2J13.1066	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	470 nm	10-2J19.1046	0.002 kg

51 Accessories

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
white	6 VDC +10 %	6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2J06.3149	0.002 kg
	12 VAC/DC +10 %	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	10-2J09.1069	0.002 kg
	24 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2J12.1069	0.002 kg
	28 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	10-2J13.1069	0.002 kg
	48 VAC/DC +10 %	4/8 mA±15 %	400 mcd	x0.31/y0.32 nm	10-2J19.1049	0.002 kg
 Bi-colour LED						
red/green	24 VDC +10 %DC	15/14mA ±15 %	600/630 mcd	625/525 nm	10-A312.314A	0.002 kg

Filament lamp, T1 3/4 MG

Operating voltage	Operation current	Part No.	Weight
 Filament lamp			
6 VAC/DC	120 mA ±10 %	10-1306.1349	0.001 kg
6.3 VAC/DC	200 mA ±10 %	10-1307.1369	0.001 kg
12 VAC/DC	75 mA ±10 %	10-1309.1309	0.001 kg
14 VAC/DC	80 mA ±10 %	10-1310.1319	0.001 kg
18 VAC/DC	40 mA ±10 %	10-1311.1249	0.001 kg
24 VAC/DC	35 mA ±10 %	10-1312.1229	0.001 kg
28 VAC/DC	30 mA ±10 %	10-1313.1209	0.001 kg
	40 mA ±10 %	10-1313.1249	0.001 kg
36 VAC/DC	20 mA ±10 %	10-1316.1179	0.001 kg
	30 mA ±10 %	10-1316.1209	0.001 kg
48 VAC/DC	20 mA ±10 %	10-1319.1179	0.001 kg
	25 mA ±10 %	10-1319.1199	0.001 kg

Series resistor**Additional Information**

- Only for filament lamp 48 VAC, 25 mA
- For lamp voltage reduction
- Keep to the country specific safety instructions
- Due to high surface temperatures, the series resistors must be soldered directly to the terminals of the equipment (use a terminal plate)

Operating voltage	Resistance	Part No.	Weight
 Series resistor			
110 VAC	2.7 kOhm	02-904.0	0.003 kg
125 VAC	3.3 kOhm	02-904.1	0.003 kg
145 VAC	4.7 kOhm	02-904.3	0.003 kg
240 VAC	10 kOhm	02-904.7	0.003 kg

Terminal plate empty**Additional Information**

- For fitting with series resistors

Product attribute	Dimension	Part No.	Weight
 Terminal plate empty			
5 spaces	62.5 x 60 x 15 mm	02-912.1	0.025 kg
10 spaces	125 x 60 x 15 mm	02-912.2	0.045 kg
15 spaces	187.6 x 60 x 15 mm	02-912.3	0.090 kg
20 spaces	250 x 60 x 15 mm	02-912.4	0.095 kg

Mounting

Fixing nut

Additional Information

- Special recommended for keylock switches

Material	Part No.	Weight
 Fixing nut		
	31-991	0.005 kg
 Fixing nut		
	51-991	0.005 kg

Anti-twist ring

Additional Information

- For key lock- and selector switch

Part No.	Weight
 Anti-twist ring	
	51-910

Lens remover

Product attribute	Part No.	Weight
 Lens remover		
	02-905	0.011 kg
 Lens remover		
	61-9730.0	0.011 kg

Lamp remover**Additional Information**

- ▲ **Caution:** A switching process might be released when replacing the lamp

Part No.	Weight
 Lamp remover	
61-9740.0	0.003 kg

Mounting tool

Product attribute	Part No.	Weight
 Mounting tool		
for tightening or loosening of the fixing nut	01-907	0.020 kg

Dismantling tool**Additional Information**

- For dismantling of lens, lens holder and switching element block

Part No.	Weight
 Dismantling tool	
51-938	0.027 kg



Actuator with snap-action switching element block (Keylock- and Selector switch 3 positions)

Switching system

Self-cleaning, double-break snap action switching system
1 normally closed and 1 normally open contact per element.

Material

Material of contact

Gold plated hardsilver

Switch housing

Diallylphthalate (DAP), heat-resistant and self-extinguishing

Actuator housing

Polyetherimide, self-extinguishing

Mechanical characteristics

Terminals

Soldering terminal which can also be used as plug-in terminal
2.8 x 0.5mm:
Max. wire diameter 2 wires of 1 mm
Max. wire cross-section of stranded cable 2 x 0.75 mm²

Tightening torque

for fixing nut max. 50 Ncm

Actuating torque

2.5 Ncm...5.5 Ncm, depending on the number of switching elements. Measured at the key or lever of the keylock- or selector switch.

Actuating travel

Keylock-/selector switch actuator with 3 positions
2 x ca. 42° deflection momentary action
2 x ca. 90° deflection maintained action

Rebound time

≤ 5 ms

Mechanical lifetime

Keylock switch 50 000 cycles of operation
Selector switch 100 000 cycles of operation

Electrical characteristics

Electrostatic discharge (ESD)

≤ 15 kV (Keylock switch)

Conventional free air thermal current

5 A

The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

Switch rating

250 VAC, 5 A (cosφ 0.75)

Electric strength

2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IEC 60512-2-11

Protection class

II

Environmental conditions

Storage temperature

-40 °C...+85 °C

Service temperature

-25 °C...+55 °C

for selector switches mounted as a block, make sure the heat can escape freely

Protection degree

Front side, as per IEC 60529
IP 65 keylock switch
IP 40 selector switch

Approvals

Approbations

CB (IEC 61058)
CSA
CQC
ENEC (EN 61058)
Germanischer Lloyd
UL

Declaration of conformity

CE

51 Technical data

Actuator with low level switching element

Switching system

This low level switching element was designed for switching low powers in electronic circuits. The mechanism assures reliable switching of loads ranging from a few $\mu\text{A}/\mu\text{V}$ up to 100 mA/42 VAC/DC.

Single-break momentary contact, as normally open or normally closed with 4 independent points of contact. 2 momentary contacts per switching element; combination of normally open and normally closed is possible.

Special features are the long life, extremely short rebound time and stable contact resistance.

Material

Material of contact

Gold plated

Switch housing

Polysulfone, heat-resistant and self-extinguishing

Actuator housing

Polyetherimide, self-extinguishing

Mechanical characteristics

Terminals

The universal terminals permit these units to be mounted on printed circuit boards (PCB). These terminals can also be used as soldering or plug-in terminals.

For these terminals we can also supply a plug-in base which, when soldered on to the board, enables the switch to be plugged in.

Soldering terminal:

Max. wire diameter 2 wires $\leq 0.8\text{ mm}$

Max. wire cross-section of stranded cable $1 \times 0.75\text{ mm}^2$

Plug-in terminal $2.0 \times 0.5\text{ mm}$

Tightening torque

for fixing nut max. 50 Ncm

Actuating torque

2.5 Ncm ... 5.5 Ncm, measured at the key or lever of the keylock- or selector switch

Actuating force

3 N ... 3.5 N

Actuating travel

Illuminated pushbutton 3 mm

Keylock-/selector switch actuator 2 positions:

1 x ca. 42° deflection momentary action

1 x ca. 90° deflection maintained action

Rebound time

Typ. $< 100\text{ }\mu\text{s}$

Mechanical lifetime

Momentary action 5 million cycles of operation

Maintained action 1 million cycles of operation

Keylock switch 50 000 cycles of operation

Electrical characteristics

Contact resistance

Starting value (initial) $\leq 50\text{ m}\Omega$

Electrostatic breakdown value

$\leq 15\text{ kV}$ (Keylock switch)

Switch rating

10 μA , 100 μV to 100 mA at 42 VAC/VDC

Electric strength

2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IEC 60512-2-11

Environmental conditions

Storage temperature

$-40^\circ\text{C} \dots +85^\circ\text{C}$

Service temperature

$-25^\circ\text{C} \dots +55^\circ\text{C}$

For indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely.

Protection degree

IP 65 front side, as per IEC 60529

Shock resistance

(Single impacts, semi-sinusoidal)

15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27

Actuator with snap-action switching element

Switching system

Self-cleaning, double-break snap action switching system (with contact gap 2 x 0.5 mm).

1 normally closed and 1 normally open contact per element.

Snap-action switching elements with soldering terminals at the sides: up to 4 switching element can be on a pushbutton (max. 4 normally closed and 4 normally open contacts).

Snap-action switching element with axial plug-in terminals 2.8 mm is not stackable, only 1 switching element can be on a pushbutton.

Material

Material of contact

Gold plated silver

Switch housing

Axial soldering-/plug-in terminal 2.8 mm:

Diallylphthalate DAP, Polyamide 66, Polysulfone, heat-resistant and self-extinguishing.

Soldering terminal: PA 6.6 Ultramid

Actuator housing

Polyetherimide, self-extinguishing

Mechanical characteristics

Terminals

Snap-action switching element with tinned soldering terminals at the sides:

Max. wire diameter 2 wires à 1.2 mm

Max. wire cross-section of stranded cable 1 x 1 mm²

Snap-action switching element with axial soldering terminals, which can also be used as plug-in terminals 2.8 x 0.5 mm:

Max. wire diameter 2 wires of 1 mm

Max. wire cross-section of stranded cable 2 of 0.75 mm² or 1 x 1.0 mm²

Tightening torque

for fixing nut max. 50 Ncm

Actuating torque

2.5 Ncm...5.5 Ncm, depending on the number of switching elements. Measured at the key or lever of the keylock- or selector switch.

Actuating force

4 N...6 N, depending on the number of switching elements

Actuating travel

Illuminated pushbutton 3 mm

Keylock-/selector switch actuator 2 positions:

1 x ca. 42° deflection momentary action

1 x ca. 90° deflection maintained action

Rebound time

≤ 5 ms

Mechanical lifetime

Momentary action 2 million cycles of operation

Maintained action 1 million cycles of operation

Keylock switch 50 000 cycles of operation

Electrical characteristics

Standards

IEC 61058, EN 61058

Rated voltage

250 VAC/VDC

Rated current

5 A

Contact resistance

Starting value (initial) ≤ 50 mΩ

Electrostatic discharge (ESD)

≤ 15 kV (Keylock switch)

Conventional free air thermal current

5 A

The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

Switch rating

250 VAC, 5 A (cosφ 1)

250 VAC, 3 A (cosφ 0.3)

Switch rating AC (cosφ 0.7)

Voltage 125 VAC 250 VAC

Current 3 A 2 A

Switch rating DC (inductive) L: R = 30 ms

Voltage 24 VDC 60 VDC 110 VDC 220 VDC

Current 2 A 0.7 A 0.2 A 0.1 A

Electric strength

2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IEC 60512-2-11

Protection class

II

Environmental conditions

Storage temperature

-40 °C...+85 °C

Service temperature

-25 °C...+55 °C

For indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely.

Protection degree

IP 65 front side, as per IEC 60529

51 Technical data

Shock resistance

(Single impacts, semi-sinusoidal)

15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27

Vibration resistance

(Sinusoidal)

10 g at 10 Hz ... 1500 Hz, amplitude 0.75 mm,

as per IEC 60512-4-4, IEC 60068-2-6

Climate resistance

Standard condition, as per IEC 60068-2-3 and 2-30

Changing condition, as per IEC 60068-2-14 and 2-33

Approvals

Approbations

CB (IEC 61058)

CSA

ENEC (EN 61058)

Germanischer Lloyd

UL

Declaration of conformity

CE

Stop Switch

Switching system

Switching element SE16 with solder terminal

Self-cleaning, double-break snap-action switching system

1 NC contact and 1 NO contact per switching element.

Available with up to two switching elements (2 NC contact and

2 NO contact)

Switching element SE 2.8 mm with solder-/ plug-in terminal

Self-cleaning, double-break snap-action switching system

(1 NC contact and 1 NO contact)

Low-level switching element with universal terminal

Single-break momentary contact switch system. Two contacts

per switching element with a combination of NC and NO contacts

Material

Actuator housing

Polyamide (PA66), Thermoplastic elastomer (TPE)

Lens

Polyamide (PA6)

Actuator

Polybutylene Terephthalate (PBT)

Label

R-640 polyester

Switching element

Solder terminal Polyamide (PA 6.6)

Solder-/plug-in interterminal Diallyl Phthalate (DAP), Polyamide (PA),
Polysulfone (PSU)

Universal terminal Polysulfone (PSU)

Contact material

Snap action solder terminal gold-plated silver

Snap action plug-in/solder terminal gold-plated silver

Low level plug-in/solder/PCB terminal gold-plated

Mechanical characteristics

Terminals

Solder or solder/plug terminal, 2.8 × 0.5 mm

Universal terminal with 2.0 × 0.5 mm plug-in/solder
and PCB terminal

Tightening torque

for fixing nut max. 50 Ncm

Actuating force

4 ... 6 N (depending on the switching element)

Mechanical lifetime

100 000 cycles of operation

Electrical characteristics

Switch rating

Solder terminal

min. 5 VAC/DC, 1 mA
max. 250 VAC/DC, 5 A

Solder-/plug-in terminal

min. 5 VAC/DC, 1 mA
max. 250 VAC/DC, 5 A

Universal terminal

min. 100 μV/10 μA
max. 42 VAC/DC, 100 mA

Environmental conditions

Storage temperature

−40 °C ... +85 °C

Operating temperature

−25 °C ... +55 °C

Degree of front protection

IP 65

Approvals

Approbations

UL

CSA

CB

ENEC (EN 61058)

Declaration of conformity

CE

Approvals are not valid for Stop switches with Low-Level switching element.

EAO reserves the right to alter specifications without further notice.

General notes

1. Engraving

In addition to the most commonly used world languages, in DIN1451-3 close spacing, other typefaces are available as Scandinavian, Slavic, Greek, Russian and Polish. Red, blue and black lenses are filled with white colour. Other colour lenses are filled in black. Standard height of letters is 2 mm. If the height is not specified, we will supply 2 mm engraved letters.

2. Hot stamping

For larger series it is worth considering markings by means of hot stamping. We will pleased to advise you. For letters and figures, typefaces with 2.5 mm, 3 mm and 4 mm are available.

3. Film inserts

Instead of using engraving the lenses can be fitted with transparent film inserts, as an alternative. For this purpose, though, it is advisable to use transparent lenses. In the case of use of a smoke-black lens the fitted film becomes readable only if the lamp is on. The film thickness is 0.2 mm. Important : Consider push-button mounting orientation before specifying engraving characters!

Lenses for indicators and illuminated pushbuttons, raised mounting

All dimensions in mm

Front size (Lens)	Film insert max. size	Height of letters h	Number of lines	Number of capital letters per line (target value)	Number of small letters per line (target value)	Image
18 x 18 (15.3 x 15.3)	12.7 x 12.7	2	4	7-8	8	B3
		3	3	6-7	7	B3
		4	2	4-5	5	B3
		5	2	3-4	4	B3
		6	1	3	3-4	B3
		8	1	2-3	2-3	B3
18 x 24 (15.3 x 21.5)	12.7 x 18.7	2	4	11	12	B1
			5	7-8	8	B2
		3	3	9-10	10-11	B1
			4	6-7	7	B2
		4	2	7	7-8	B1
			3	4-5	5	B2
		5	2	5-6	6	B1
				3-4	4	B2
		6	1	4-5	5	B1
			2	3	3-4	B2
		8	1	3-4	3-4	B1
				2-3	2-3	B2
Ø 18 (Ø 15.8)	Ø 12.8	2	3	6	6	B4
		3	2	5	6	B4
		4	2	3	4	B4
		5	1	2	3	B4
		6	1	2	2	B4
		8	1	2	2	B4



Lenses for indicators and illuminated pushbuttons, flush mounting

All dimensions in mm

Front size (Lens)	Film insert max. size	Height of letters h	Number of lines	Number of capital letters per line (target value)	Number of small letters per line (target value)	Image
24 x 24 (18 x 18)	15.1 x 15.1	2	4	8-9	9	B3
		3	3	7-8	8	B3
		4	2	4-5	5	B3
		5	2	4	4-5	B3
		6	1	4	4	B3
		8	1	2-3	2-3	B3
24 x 30 (18 x 24)	15.1 x 21	2	4	12	13	B1
			5	8-9	9	B2
		3	3	10-11	11-12	B1
			4	7-8	8	B2
		4	2	7	8	B1
			3	4-5	5	B2
		5	2	5-6	6	B1
				4	4-5	B2
		6	1	4-5	5	B1
			2	3	3-4	B2
		8	1	3-4	3-4	B1
				2-3	2-3	B2
Ø 25 (Ø 19.7)	Marking plate	2	3	6	6	B4
		3	2	5	6	B4
		4	2	3	4	B4
		5	1	2	3	B4
		6	1	2	3	B4
		8	1	2	2	B4



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. 12VDC) 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 (V_R) 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



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01-928	70	51-051.006F	7	51-153.0266	40	51-256.025	37	51-338.025D2F	17	51-414.036D	43
01-929	70	51-051.006F	8	51-153.0268	40	51-256.0250	38	51-355.022D	41	51-414.036DF	17
02-904.0	73	51-121.022	34	51-154.0252	34	51-256.0254	37	51-355.022DF	16	51-415.036D	43
02-904.1	73	51-121.0252	34	51-154.0252F	5	51-256.0255	37	51-355.025D2	41	51-415.036DF	17
02-904.3	73	51-122.0252	34	51-154.0252F	9	51-256.0256	38	51-355.025D2F	15	51-417.036DF	17
02-904.7	73	51-123.0252	34	51-154.0252F	11	51-256.0258	38	51-356.025D2	42	51-418.036D	43
02-905	74	51-124.0252	34	51-154.0252F	13	51-256.025D2	42	51-356.025D2F	16	51-418.036DF	17
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02-912.2	73	51-131.0252	34	51-155.022DF	16	51-256.026	37	51-358.025D2	42	51-422.036	34
02-912.3	73	51-132.0252	35	51-155.025D2	41	51-256.0260	38	51-358.025D2F	16	51-423.036	34
02-912.4	73	51-133.0252	35	51-155.025D2F	15	51-256.0264	37	51-361.022D	45	51-425.036	34
10-1306.1349	72	51-134.0252	35	51-156.0250	40	51-256.0265	37	51-361.022DF	20	51-426.036	34
10-1307.1369	72	51-135.022D	43	51-156.0252	39	51-256.0266	38	51-362.022D	45	51-427.036D	42
10-1309.1309	72	51-135.022DF	17	51-156.0254	39	51-256.0268	38	51-362.022DF	20	51-427.036DF	16
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10-1313.1249	72	51-137.025D2	43	51-156.025D2F	16	51-259.025	37	51-365.022D	45	51-435.036	34
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10-1316.1209	72	51-138.025D2	43	51-156.0262	39	51-259.0254	37	51-366.022D	45	51-437.036DF	17
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10-2J09.1062	71	51-143.025D2	43	51-158.025D2F	16	51-264.0252	34	51-373.022D	46	51-444.036DF	15
10-2J09.1064	71	51-143.025D2F	17	51-159.0250	40	51-271.022	34	51-373.022DF	20	51-445.036D	41
10-2J09.1065	71	51-144.025D2	43	51-159.0252	39	51-271.0252	34	51-374.022D	46	51-445.036DF	15
10-2J09.1066	71	51-144.025D2F	17	51-159.0254	39	51-272.0252	35	51-374.022DF	20	51-447.036DF	15
10-2J09.1069	72	51-145.022D	41	51-159.0255	39	51-273.0252	35	51-375.022DF	20	51-448.036D	41
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10-2J13.1069	72	51-151.022F	5	51-197.025D2F	16	51-281.0252F	11	51-382.022DF	19	51-452.036F	11
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10-2J19.1045	71	51-151.022F	13	51-198.025D2F	43	51-282.0252F	5	51-384.022DF	19	51-453.036F	5
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31-946	69	51-152.0260	40	51-252.0260	38	51-284.0252F	9	51-396.025D2	42	51-456.036F	11
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51-904.4	54	52-133.0252	48	52-929.30	58	61-9841.6	56		
51-904.5	54	52-134.0252	21	52-929.40	58	61-9841.6A	56		
51-904.6	54	52-134.0252	24	52-929.50	58	61-9841.8	56		
51-904.7	54	52-134.0252	48	52-929.60	58	61-9841.8A	56		
51-905.2	54	52-271.022	21	52-929.8	58	61-9842.0	56		
51-905.4	54	52-271.022	24	52-929.9	58	61-9842.2	56		
51-905.5	54	52-271.022	48	52-950.0	57	61-9842.5	56		
51-905.7	54	52-271.0252	21	52-952.0	57	61-9842.6	56		
51-906.2	54	52-271.0252	24	61-9028.0	58	61-9842.8	56		
51-906.4	54	52-271.0252	48	61-9028.20	58	61-9921.0	64		
51-906.5	54	52-272.0252	22	61-9028.40	58	61-9922.0	64		
51-906.7	54	52-272.0252	25	61-9028.50	58	61-9924.0	64		



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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