22.5 mm 30.5mm IP65 10A 500VAC



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

Product Profile

The Series 04 is a high quality switch range that includes pushbuttons, indicators, selectors, mushroom headed switches, key switches, and Emergency-stops.

Options include self cleaning, slow-make and snap-action switching elements.

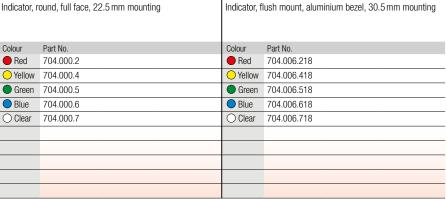
Technical data see page 25

- IP65 Protection
- Switch Rating: Maximum Voltage, 500 VAC Maximum Thermal Current, Ith = 10A 230VAC/6A, 24VDC/10A
- Raised Mounting into 22.5 mm cut out
- Flush Mounting into 30.5 mm cut out
- Illumination using Ba9s Lamps or LED's
- All standard lenses are transparent with translucent diffuser
- Screw terminal or plug-in connections



Indicator, round, full face, 22.5 mm mounting

O Indicator



For complete switch also order

For complete switch also order

Non-Illuminated raised pushbutton,

O: Indicator



Indicator, flush mount, silver plastic bezel, 30 x 30 mm mounting

Part No. 704.202.208

704.202.408

704.202.508

704.202.608

704.202.708

Colour

Red

O Yellow Green

O Blue

◯ Clear



Non-Illuminated pushbutton

Non-Illuminated raised pushbutton,

grey plasti	c bezel, 22.5 mm mountir	ığ	aluminium bezel, 22.5 mm mounting					
Colour	Part No., Momentary	Part No., Maintained	Colour	Part No., Momentary	Part No., Maintained			
🔴 Red	704.010.2	704.040.2	🔴 Red	704.012.2	704.042.2			
O Yellow	704.010.4	704.040.4	O Yellow	704.012.4	704.042.4			
🔵 Green	704.010.5	704.040.5	🔵 Green	704.012.5	704.042.5			
O Blue	704.010.6	704.040.6	O Blue	704.012.6	704.042.6			
○ Clear	704.010.7	704.040.7	○ Clear	704.012.7	704.042.7			
 Black 	704.010.0	704.040.0	 Black 	704.012.0	704.042.0			

For complete switch also order $\,\, \ddot{\mathbb{Q}} \,$

For complete switch also order 🗔 🗛

ACCESSORIES

LED

Choose one component from each of the coloured sections to assemble a complete switch. For other options or further information please contact your local sales office.

Non-Illuminated pushbutton



Non-Illuminated flush mount pushbutton, aluminium bezel, 30.5 mm mounting

Colour	Part No., Momentary	Part No., Maintained
🔴 Red	704.012.218	704.042.218
O Yellow	704.012.418	704.042.418
🔵 Green	704.012.518	704.042.518
O Blue	704.012.618	704.042.618
◯ Clear	704.012.718	704.042.718
 Black 	704.012.018	704.042.018



Non-Illuminated flush mount pushbutton, silver plastic bezel, 30 x 30 mm mounting

For complete switch also order 🗔 A

Colour	Part No., Momentary	Part No., Maintained
🔴 Red	704.210.208	704.240.208
O Yellow	704.210.408	704.240.408
🔵 Green	704.210.508	704.240.508
O Blue	704.210.608	704.240.608
○ Clear	704.210.708	704.240.708
 Black 	704.210.008	704.240.008



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ELEMENT

Illuminated pushbutton

Illuminated raised pushbutton, grey plastic bezel, 22.5 mm mounting

	Colour	Part No., Momentary	Part No., Maintained
	Red	704.030.2	704.060.2
	O Yellow	704.030.4	704.060.4
	🔵 Green	704.030.5	704.060.5
	O Blue	704.030.6	704.060.6
	◯ Clear	704.030.7	704.060.7
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For complete switch also order 🖸 A

Illuminated pushbutton



Illuminated raised pushbutton, aluminium bezel, 22.5 mm mounting



Illuminated flush mount pushbutton, aluminium bezel, 30.5 mm mounting

Illuminated flush mount pushbutton, silver plastic bezel, 30 x 30 mm mounting

Colour	Part No., Momentary	Part No., Maintained	Colour	Part No., Momentary	Part No., Maintained	Colour	Part No., Momentary	Part No., Maintained
🔴 Red	704.032.2	704.062.2	🔴 Red	704.032.218	704.062.218	🔴 Red	704.230.208	704.260.208
O Yellow	704.032.4	704.062.4	O Yellow	704.032.418	704.062.418	O Yellow	704.230.408	704.260.408
🔵 Green	704.032.5	704.062.5	🔵 Green	704.032.518	704.062.518	🔵 Green	704.230.508	704.260.508
O Blue	704.032.6	704.062.6	O Blue	704.032.618	704.062.618	O Blue	704.230.608	704.260.608
○ Clear	704.032.7	704.062.7	○ Clear	704.032.718	704.062.718	○ Clear	704.230.708	704.260.708

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22.5 mm 30.5 mm IP65 10 A 500 VAC



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

C Emerge	ency-stop switch		Юм	ushroom hea	ad pushbutton	
	vist release, 37 mm diameter, foolproof to I DIN EN ISO 13850		y-stop, key release, 37 mm diameter, foolproof to -5-1 and DIN EN ISO 13850		n head pushbutton, p nium bezel, 22.5 mm nomentary	
Part No.			Part No.	Colour	Part No., Plastic	Part No., Aluminium
704.064	4.2		704.066.2	Red	704.070.2	704.071.2
				O Yellow	704.070.4	704.071.4
				Green	704.070.5	704.071.5
				Black	704.070.0	704.071.0
Place	use slow make switch element only		Please use slow make switch element only			
	. 704.91X		Part No. 704.91X			
	ch also order 🕢 🗛	For compl	ete switch also order 🕢 A	For compl	ete switch also ord	er 🖂 🗛
O Mushro	oom head stop switch	of Ke	eylock switch			



Stop switch, twist release, mushroom head, 40 mm diameter, 22.5 mm mounting

Keylock switch 2 position, raised, 22.5 mm mounting



 Keylock switch 2 position, flush mount,
 30.5 mm mounting



						Mom. 42°	Maint. 90°	30.5 mm mounting			Mom. 42°	Maint. 90°
Part.No	Front Ring	Markings	Graphic	Part No.	Function		Key out	Graphic	Part No.	Function		Key out
704.074.2	Gray plastic	Directional arrows	1	704.123.0	Momentary		Α	3	704.123.018	Momentary		А
704.075.2	Anodized aluminium	Directional arrows	2	704.121.0	Maintained		С	4	704.121.018	Maintained		С
			2	704.122.0	Maintained		C + B	4	704.122.018	Maintained		C + B

 $\binom{2}{2}$

For complete switch also order 🗔 🗛

For complete switch also order 🖸 🗛

ACCESSORIES

LED

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ELEMENT

Choose one component from each of the coloured sections to assemble a complete switch. For other options or further information please contact your local sales office.

Keylock switch



For complete switch also order 🕢 A

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For complete switch also order 🕢 A
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For complete switch also order 🕢 A

22.5 mm 30.5 mm IP65 10 A 500 VAC



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

Selector switch

2 position	witch short leve , flush mount, m mounting	r	A B Mom. 42°	C B 18 Maint. 90°	Selector sv 3 position, 22.5 mm n		r	C A B 19 Mom./Maint. 42°		vitch short leve flush mount, nounting	r	C A B 20 Mom./Maint. 42°
Graphic	Part No.	Function	Be	ezel	Graphic	Part No.	Function	Bezel	Graphic	Part No.	Function	Bezel
17	704.512.008	Momentary	Si	ilver plastic	19	704.404.0	Momentary	Grey plastic	20	704.405.018	Momentary	Aluminium
18	704.510.008	Maintained	Si	ilver plastic	19	704.405.0	Momentary	Aluminium	20	704.403.018	Maintained	Aluminium
					19	704.402.0	Maintained	Grey plastic				
					19	704.403.0	Maintained	Aluminium				
For comp	lete switch also	o order 🗟 🗛			For comple	ete switch also	o order 🗔 🗛		For comple	ete switch also	o order 🕢 🗛	

Selector switch

					f) is],	
3 position	witch short leve , flush mount, m mounting	r	C A B 21 Mom./Maint. 42°	Selector sv 2 position, 22.5 mm r	vitch long lever raised, nounting		A 22 Mom. 42°	C B 23 Maint. 90°	Selector sv 2 position, 30.5 mm r	vitch long lever flush mount, nounting		A 24 Mom. 42°	C B 25 Maint. 90°
Graphic	Part No.	Function	Bezel	Graphic	Part No.	Function		Bezel	Graphic	Part No.	Function		Bezel
21	704.504.008	Momentary	Silver plastic	22	704.102.0	Momentary		Grey plastic	24	704.103.018	Momentary		Aluminium
21	704.502.008	Maintained	Silver plastic	22	704.103.0	Momentary		Aluminium	25	704.101.018	Maintained		Aluminium
				23	704.100.0	Maintained		Grey plastic					
				23	704.101.0	Maintained		Aluminium					

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For complete switch also order $oldsymbol{\square}$ A

For complete switch also order 🖸 🗛

ACCESSORIES

LED

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ELEMENT

Choose one component from each of the coloured sections to assemble a complete switch. For other options or further information please contact your local sales office.

() Selector switch



For complete switch also order 🖂 A

22.5 mm 30.5 mm IP65 10 A 500 VAC



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

Switching element



Switching element, screw terminal, snap-action with silver self-cleaning contacts

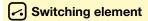


Switching element, plug-in terminal, 6.3 mm, snap-action with self-cleaning silver contacts



Switching element, screw terminal, snap-action with silver self-cleaning contacts

Part No.	Contact type	Part No.	Contact type	Part No.	Contact type
704.900.1	1NO	704.905.1	1N0	704.910.1	1N0
704.900.2	1NC	704.905.2	1NC	704.910.2	1NC
704.900.3	2N0	704.905.3	2N0	704.910.3	2N0
704.900.4	2NC	704.905.4	2NC	704.910.4	2NC
704.900.5	1N0/1NC	704.905.5	1NO/1NC	704.910.5	1N0/1NC
Other contact mate	erials and terminals available.	Other contact mat	erials and terminals available.	Other contact mate	erials and terminals available.
Please contact us.		Please contact us		Please contact us.	





Switching element, plug-in terminal, 6.3 mm, slow-make with forced opening silver contacts

Ö LED



LED, Ba9s, single chip, 6 Volt and 12 Volt



LED, Ba9s, single chip, 24 Volt and 28 Volt

Part No.	Contact type	Colour	Part No.	Voltage	Colour	Part No.	Voltage
704.915.1	1N0	Red	10-2506.1082	6 VDC, 10/17mA	Red	10-2512.1142	24VAC/DC, 15mA
704.915.2	1NC	O Yellow	10-2506.1084	6 VDC, 10/17mA	O Yellow	10-2512.1144	24 VAC/DC, 15mA
704.915.3	2N0	🔵 Green	10-2506.1085	6VDC, 10/17mA	Green	10-2512.1145	24 VAC/DC, 15mA
704.915.4	2NC	O Blue	10-2506.1086	6 VDC, 10/17mA	O Blue	10-2512.1146	24 VAC/DC, 15mA
704.915.5	1N0/1NC	O White	10-2506.1089	6 VDC, 10/17mA	O White	10-2512.1149	24 VAC/DC, 15mA
		🔴 Red	10-2509.1142	12 VAC/DC, 15mA	Red	10-2513.1142	28 VAC/DC, 15mA
		O Yellow	10-2509.1144	12VAC/DC, 15mA	O Yellow	10-2513.1144	28 VAC/DC, 15mA
		🔵 Green	10-2509.1145	12VAC/DC, 15mA	Green	10-2513.1145	28VAC/DC, 15mA
Other contact ma	terials and terminals available.	O Blue	10-2509.1146	12VAC/DC, 15mA	O Blue	10-2513.1146	28VAC/DC, 15mA
Please contact us	3.	O White	10-2509.1149	12VAC/DC, 15mA	O White	10-2513.1149	28VAC/DC, 15mA

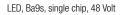
22.5 mm 30.5 mm IP65 10 A 500 VAC

Series 04



Ö LED





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

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

LED, Ba9s, single chip, 130 Volt and 230 Volt



Lamp/LED block, screw terminal

Colour	Part No.	Voltage	Colour	Part No.	Voltage	Part No.
🔴 Red	10-2519.1052	48 VAC/DC, 6mA	🔴 Red	10-2H24.2052	130 VAC / 5mA	704.950.0*
O Yellow	10-2519.1054	48 VAC/DC, 6mA	O Yellow	10-2H24.2054	130 VAC / 5mA	
🔵 Green	10-2519.1055	48 VAC/DC, 6mA	🔵 Green	10-2H24.2055	130 VAC / 5mA	
O Blue	10-2519.1056	48 VAC/DC, 6mA	O Blue	10-2H24.2056	130VAC / 5mA	
O White	10-2519.1059	48 VAC/DC, 6mA	O White	10-2H24.2059	130VAC / 5mA	
			🔴 Red	10-2H24.2042	230 VAC / 3mA	
			O Yellow	10-2H24.2044	230 VAC / 3mA	
			🔵 Green	10-2H24.2045	230 VAC / 3mA	
			O Blue	10-2H24.2046	230 VAC / 3mA	
			○ White	10-2H24.2049	230 VAC / 3mA	* Other terminals available. Please contact us.

A Accessories



Lamp/LED block, plug-in terminal, 6.3 mm



Lens cap, round, transparent, plastic for raised and flush indicators with bezel and pushbutton actuators



Lens cap raised, round, transparent, plastic for raised and flush mount pushbutton actuators

	P			
Part No.	Colour	Part No.	Colour	Part No.
704.950.1*	🔴 Red	704.602.2	🔴 Red	704.611.2
	O Yellow	704.602.4	O Yellow	704.611.4
	🔵 Green	704.602.5	🔵 Green	704.611.5
	O Blue	704.602.6	O Blue	704.611.6
	○ Clear	704.602.7	○ Clear	704.611.7
		For complete lens also order diffuser		For complete lens also order diffuser
* Other terminals available. Please contact us.		704.609.9 (see page 24)		704.610.9 (see page 24)

22.5 mm 30.5 mm IP65 10 A 500 VAC



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

A Accessories



Lens cap, round, aluminium anodised for raised and flush mount pushbutton actuators



Protective cover, raised pushbutton



Protective front ring with silicon membrane for raised or flush mount pushbutton

Colour	Part No.	Comment	Part No.		Part No.	Size
🔴 Red	704.601.2		704.925.0	1	704.600.3	29 mm \varnothing for raised pushbutton
O Yellow	704.601.4			2	704.955.3	35mmarnothing for flush mount pushbutton
O Blue	704.601.6					
Silver	704.601.8					
Silver	704.601.81	Illuminated central dot				
Black	704.601.0					
Black	704.601.01	Illuminated central dot				
Silver	704.601.9	Stainless steel				

A Accessories



Emergency-stop protective shroud, yellow painted aluminium with 22.5 mm mounting hole



Emergency-stop switch label, 60 mm \varnothing



Emergency-stop switch enclosure 94 mm (w) x 94 mm (h) x 81 mm (d), anti twist hole. Cable gland M20, IP66

			-	
Part No.	Part No.	Markings		Part No.
704.927.4	704.963.5	NOT-AUS	1	704.945.0
	704.963.6	EMERGENCY-STOP	2	704.945.6
	704.963.7	ARRET D'URGENCE		
	704.963.8	NOT-HALT		

Choose one component from each of the coloured sections to assemble a complete switch. For other options or further information please contact your local sales office.



A Accessories



Emergency-stop switch enclosure with 22.5 mm \emptyset mounting hole, 65 mm (w) x 65 mm (h) x 81 mm (d), anti twist hole. Cable gland M20, IP66

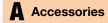


Emergency-stop switch enclosure, with 22.5 mm \varnothing mounting hole, 94 mm (w) x 65 mm (h) x 81 mm (d), anti twist hole. Cable gland M20, IP66



Blanking plate

	ior ouble glaria mize, il oc		oabio glana mzoj n oo		
	Part No.		Part No.	Part No.	Mounting hole
1	704.945.7	1	704.945.8	704.960.7	22.5 mm Ø
2	704.945.6	2	704.945.6	704.964.8	30.5 mm Ø
				704.964.9	30 x 30 mm





Flush mount bezel for 30.5 \varnothing mounting



Lens remover for round pushbuttons and indicators. LED and lamp remover for round and square pushbuttons and indicators



Lens remover for square pushbuttons and indicators

	Part No.	Product description	Pa	irt No.	
1	704.955.0	Aluminium, black anodised	70	00.006.0	98-968
2	704.955.1	Aluminium, natural anodised			
3	704.955.9	Stainless steel			
4	704.955.3	Alu, natural anodised with seal			

22.5 mm 30.5 mm IP65 10 A 500 VAC

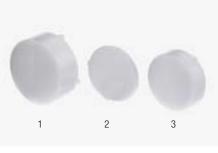


Choose one component from each of the coloured sections to assemble a complete switch.

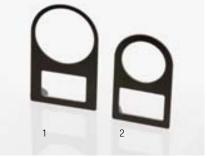
A Accessories

Mounting flange



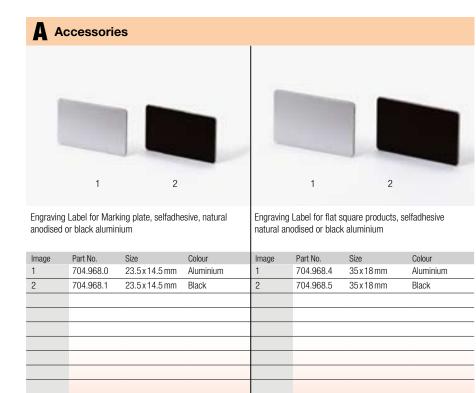


Diffuser for raised indicator, diffuser for flat Mr. Iens indicator and pushbutton, diffuser for raised pushbutton raise



Marking plate selfadhesive, aluminium finish or black, for raised and flush mount push buttons

Part No.	Material	Image	Part No.	Product description	Image	Part No.	Size	Colour
704.960.5	Metal	1	704.608.9	Diffuser for raised indicator	1	704.968.2	22.5 mm Ø	Black
704.950.5	Plastic	2	704.609.9	Diffuser for flat lens	2	704.968.3	30.5 mm Ø	Black
		3	704.610.9	Diffuser for raised illum. pushbutton				



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Snap-action switching element

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.

Up to 3 switching elements can be snapped to each actuator. Snap-action switching elements are not permissible for emergencystop pushbuttons!

Material

Material of contact

Hard Silver, Gold/Silver, Silver/Palladium (for aggressive atmospheres)

Switch housing

Polycarbonate (PC)

Mechanical characteristics

Terminals

Screw terminals Plug-in terminals 6.3x0.8mm max. wire cross-section 2x2.5 mm² max. wire cross-section of stranded cable 2x1.5 mm² For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting dimensions)

Tightening torque

Screws at the mounting flange max, 25 Ncm Screws at switching element max. 50 Ncm

Actuating force

- 1 Normally closed 1.9N
- 1 Normally open 2 N

Actuating travel

5.8mm ±0.2mm

Rebound time

≤3ms

Mechanical lifetime

(with 1 switching element) Pushbutton, maintained action Pushbutton momentary action

1.5 million Cycles of operation 3 million Cycles of operation 1.25 million Cycles of operation Cycles of operation 2.5 million 25 000 Cycles of operation 50 000 Cycles of operation

Electrical characteristics

Selector switch maintained action

Selector switch momentary action

Keylock switch maintained action

Keylock switch momentary action

Standards

The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1

Rated Insulation Voltage Ui 500 VAC/600 VDC, as per EN IEC 60947-5-1

Contact resistance

New state ≤50 mΩ as per DIN IEC 60512-2-4

Conventional free air thermal current Ith

10A, as per EN IEC 60947-5-1

the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Isolation resistance

≥10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-2-10

Switch rating

At switch rating AC for Gold/Silver, Silver/Palladium and Hard Silver contacts service category AC-15, as per EN IEC 60947-5-1

Voltage	230 VAC	400 VAC	500 VAC
Current	6A	4A	2.5A

At switch rating DC for Gold-, Silver- and Hard Silver contacts service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	60 VDC	110VDC
Current	10A	3A	1A

Recommended minimum operational data

Gold/Silver contacts:					
Voltage	5 VDC	24 VDC	110 VDC		
Current	15mA	5mA	2mA		

Hard Silver contacts:					
Voltage	24 VDC	110VDC			
Current	50 mA	10 mA			

Protection class

Indicators and switches, fit for mounting into devices with protection class II

Environmental conditions

Storage temperature

-40 °C ... +85 °C

Operating temperature -25°C ... +55°C

Shock resistance

(single impacts, semi-sinusoidal) 300 m/s²puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal) 100 m/s² at 10 Hz ... 500 Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6

Approvals

Approbations

CB (IEC 60947) CCC CSA Germanischer Lloyd GOST SEV UL Declaration of conformity CF

NF F16-102

Slow-make switching element

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.

Slow-make contacts with forced action are ideal for high switch ratings.

Up to 3 switching elements can be snapped to each actuator. For the emergency-stop pushbutton use the slow-make switching element (max. 2).

Material

Material of contact

Hard Silver, Gold/Silver, Silver/Palladium (for aggressive atmospheres)

Switch housing

Polycarbonate (PC)

Mechanical characteristics

Terminals

Screw terminals Plug-in terminals 6.3x0.8mm

max. wire cross-section 2x2.5mm²

max. wire cross-section of stranded cable 2x1.5 mm²

For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65mm between rows (mounting dimensions)

Tightening torque

Screws at the mounting flange max. 25 Ncm Screws at switching element max. 50 Ncm

Actuating force

1 Normally closed 2 N 1 Normally open 3.1 N

Actuating travel

5.8mm ±0.2mm

Rebound time

≤1 ms

Mechanical lifetime

(with 1 switching element) Pushbutton, maintained action Pushbutton momentary action Selector switch maintained action Selector switch momentary action Emergency-stop switch Keylock switch maintained action

1.5 million Cycles of operation 3 million Cycles of operation 1.25 million Cycles of operation 2.5 million Cycles of operation 50 000 Cycles of operation 25 000 Cycles of operation 50 000 Cycles of operation

Keylock switch momentary action **Electrical characteristics**

Standards

The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1

Rated Insulation Voltage Ui

500 VAC/600 VDC, as per EN IEC 60947-5-1

Contact resistance

New state ≤50 mΩ as per DIN IEC 60512-2-4

Isolation resistance

 \geq 10 M Ω between open contacts at 500 VDC, as per DIN IEC 60512-2-10

Conventional free air thermal current Ith

10 A. as per EN IEC 60947-5-1

the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating

At switch rating AC for Gold/Silver, Silver/Palladium and Hard Silver contacts service category AC-15, as per EN IEC 60947-5-1 (cos 0.3)

Voltage	230 VAC	400 VAC	500 VAC
Current	7A	5A	4A

At switch rating DC for Gold-, Silver- and Hard Silver contacts service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	60 VDC	110VDC	250 VDC
Current	10A	5A	2.5A	0.6A

Recommended minimum operational data

Gold/Silver contacts: 24100

Voltage	24 VDC	110VDC
Current	10 mA	2 mA
Hard Silver	contacts:	
Voltage	24 VDC	110VDC
Current	50 mA	10 m A

Protection class

Indicators and switches, fit for mounting into devices with protection class II

Environmental conditions

Storage temperature

-40 °C ... +85 °C

Operating temperature -40°C ... +55°C

Shock resistance

(single impacts, semi-sinusoidal) $300\,m/s^2$ puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal) 100 m/s² at 10 Hz ... 500 Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6

Approvals

Approbations

CB (IEC 60947) CCC CSA Germanischer Lloyd GOST SEV UL

Declaration of conformity CF

NF F16-102

Buzzer

Buzzer system

System Piezo disc

Material

Alarm buzzer case Polyamide

Front cap Plastic Polyamide Metal Nickel-plated brass (sea-water proof)

Mechanical characteristics

Terminals Plug-in terminal 2.8x0.5mm

Electrical characteristics

Frequency (tone) approx. 2.8 kHz continuous tone only

Sound pressure 95 db (A) \pm 8 dB at a distance of 0.1 m

Operation Voltage/CurrentOperation Voltage24 VDC ±10%Operation Current<25 mA</td>

Environmental conditions

Storage temperature -35 °C ... +85 °C

Operating temperature -25°C ... +55°C

Protection degree as per EN IEC 60529, frontside IP40, devices flush mounting IP65, devices raised mounting

Approvals

Declaration of conformity CE NF F16-102

Actuator

Material

Front ring Polyamide, Aluminium or Stainless steel

Mounting flange Polyethylene terephtalate

Actuator housing Polycarbonate, Polyamide

Mechanical characteristics

Actuating force

Mounting style square flush 6.2 N other Mounting styles 8 N

Actuating travel 5.8 mm ±0.2 mm

Mechanical lifetime

Pushbutton Selector switch Stop pushbutton Fool proofed E-stop Keylock switch ≤3 million
 C
 ≤2.5 million
 C
 ≤50 000
 C
 ≥6050
 C
 ≤50 000
 C

Cycles of operation Cycles of operation Cycles of operation Cycles of operation Cycles of operation

Electrical characteristics

Standards

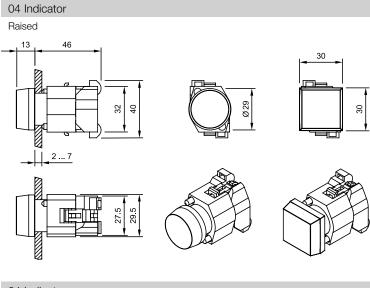
The switches comply with the "Rules for low-voltage switching devices" EN IEC 60947-5-1

Environmental conditions

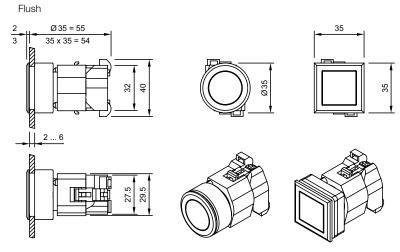
Storage temperature -40 °C ... +85 °C

Operating temperature -25 °C ... +55 °C

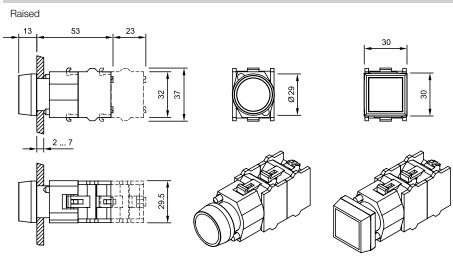
Protection degree as per EN IEC 60529 Frontside IP65

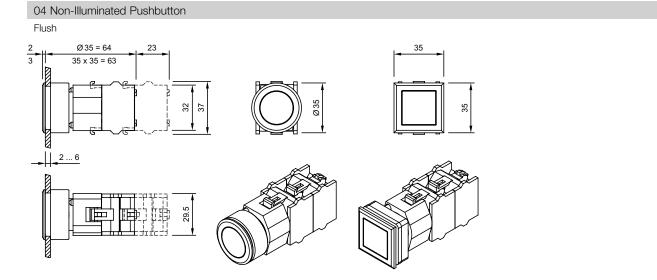


04 Indicator

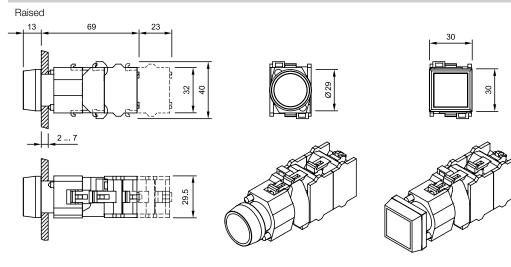


04 Non-Illuminated Pushbutton

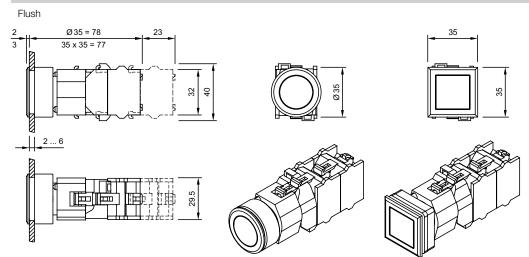




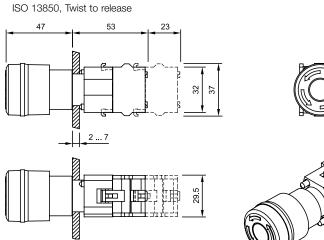
04 Illuminated Pushbutton

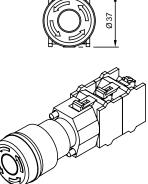


04 Illuminated Pushbutton

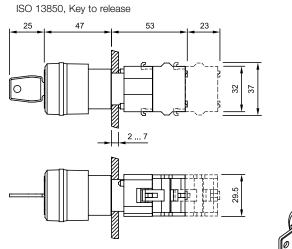


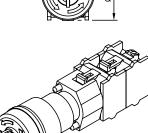
04 Emergency-stop switch



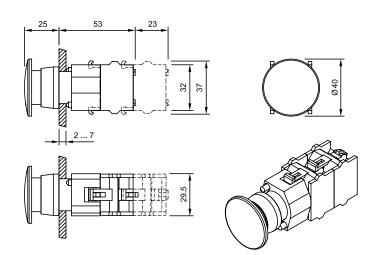


04 Emergency-stop switch



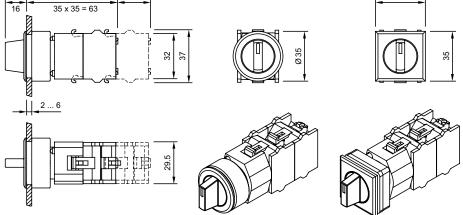


04 Head Pushbutton Mushroom



Technical Drawings

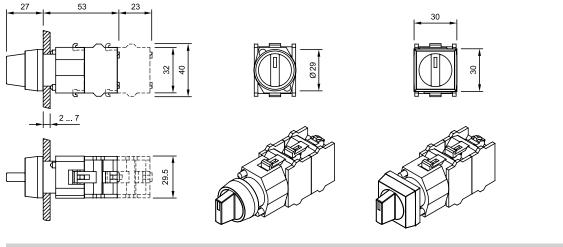
04 Keylock switch 2-Position, 3-Position, Raised 53 23 23 21 30 Ø 29 32 40 0 8 Ø 2...7 29.5 Ø 04 Keylock switch 2-Position, 3-Position, Flush Ø35 = 71.5 2 3 23 35 35 x 35 = 70.5 Ø 35 Ø 35 32 37 0 Ø 2 ... 6 崩 29.5 23 04 Selector switch 2-Position, 3-Position, Short lever, Flush Ø35 = 64 35 15 23



Technical Drawings

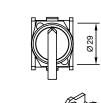
04 Selector switch

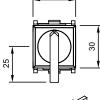
2-Position, 3-Position, Short lever, Raised



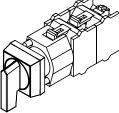
04 Selector switch

2-Position, 3-Position, Long lever, Raised

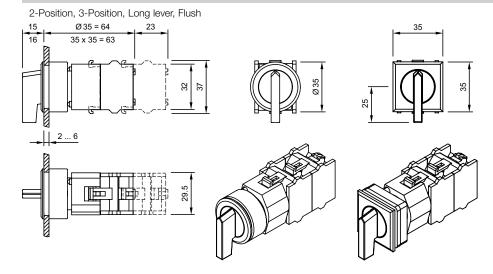


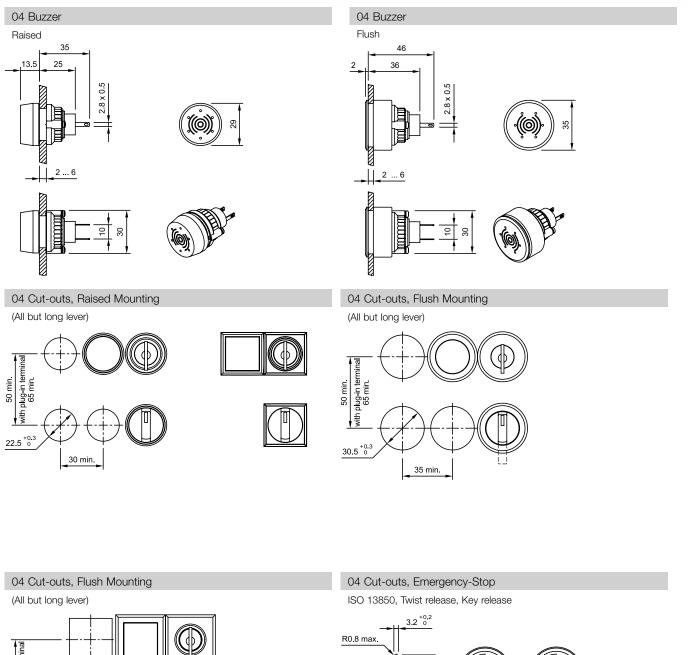


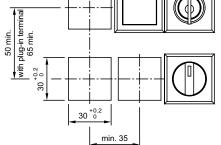
30

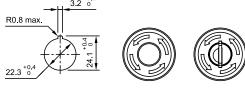


04 Selector switch

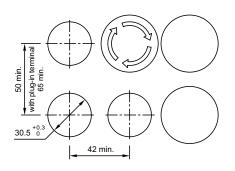




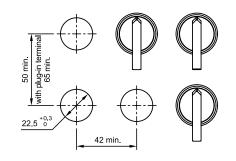




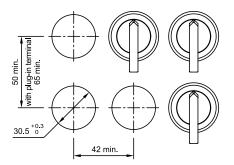
04 Cut-outs, Mushroom head



04 Cut-outs, Long Lever, Raised Mounting



04 Cut-outs, Long Lever, Flush Mounting



04 Cut-outs, Long Lever, Flush Mounting

