



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 pages 40-42
Technical drawings see pages 43-47

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

Indicator



Indicator, round, full face, 22.5mm mounting

Colour	Part No.
Red	704.000.2
Yellow	704.000.4
Green	704.000.5
Blue	704.000.6
Clear	704.000.7

For complete switch also order



Indicator, flush mount, aluminium bezel, 30.5mm mounting

Colour	Part No.
Red	704.006.218*
Yellow	704.006.418*
Green	704.006.518*
Blue	704.006.618*
Clear	704.006.718*

*Add suffix 'B' for non captive screw with flat washer and spring washer option

For complete switch also order

Indicator



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

Colour	Part No.
Red	704.202.208
Yellow	704.202.408
Green	704.202.508
Blue	704.202.608
Clear	704.202.708

For complete switch also order

Non Illuminated pushbutton



Non illuminated raised pushbutton, grey plastic bezel, 22.5mm mounting

Colour	Part No., Momentary	Part No., Maintained
Red	704.010.2	704.040.2
Yellow	704.010.4	704.040.4
Green	704.010.5	704.040.5
Blue	704.010.6	704.040.6
Clear	704.010.7	704.040.7
Black	704.010.0	704.040.0

For complete switch also order **A**

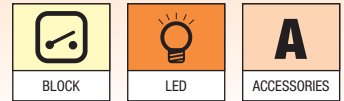


Non illuminated raised pushbutton, aluminium bezel, 22.5mm mounting

Colour	Part No., Momentary	Part No., Maintained
Red	704.012.2	704.042.2
Yellow	704.012.4	704.042.4
Green	704.012.5	704.042.5
Blue	704.012.6	704.042.6
Clear	704.012.7	704.042.7
Black	704.012.0	704.042.0

For complete switch also order **A**

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.



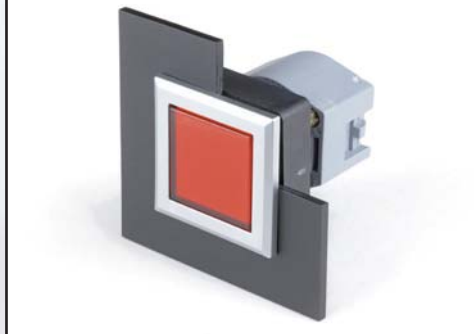
Non Illuminated pushbutton



Non illuminated flush mount pushbutton, aluminium bezel, 30.5mm mounting

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

For complete switch also order **A**



Non illuminated flush mount pushbutton, silver bezel, 30 x 30mm mounting

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

For complete switch also order **A**

Illuminated pushbutton



Illuminated raised pushbutton, grey plastic bezel, 22.5mm mounting

Colour	Part No., Momentary	Part No., Maintained
Red	704.030.2	704.060.2
Yellow	704.030.4	704.060.4
Green	704.030.5	704.060.5
Blue	704.030.6	704.060.6
Clear	704.030.7	704.060.7

For complete switch also order **A**

Illuminated pushbutton



Illuminated raised pushbutton, aluminium bezel, 22.5mm mounting

Colour	Part No., Momentary	Part No., Maintained
Red	704.032.2	704.062.2
Yellow	704.032.4	704.062.4
Green	704.032.5	704.062.5
Blue	704.032.6	704.062.6
Clear	704.032.7	704.062.7

For complete switch also order **A**



Illuminated flush mount pushbutton, aluminium bezel, 30.5mm mounting

Colour	Part No., Momentary	Part No., Maintained
Red	704.032.218*	704.062.218*
Yellow	704.032.418*	704.062.418*
Green	704.032.518*	704.062.518*
Blue	704.032.618*	704.062.618*
Clear	704.032.718*	704.062.718*

*Add suffix 'B' for non captive screw with flat washer and spring washer option

For complete switch also order **A**



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

Colour	Part No., Momentary	Part No., Maintained
Red	704.230.208*	704.260.208*
Yellow	704.230.408*	704.260.408*
Green	704.230.508*	704.260.508*
Blue	704.230.608*	704.260.608*
Clear	704.230.708*	704.260.708*

*Add suffix 'B' for improved shock and vibration performance option

For complete switch also order **A**



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

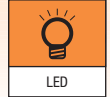
Emergency-stop switch		Mushroom headed pushbutton																																																												
<p>Emergency-stop, twist release, 37mm diameter, foolproof to EN 60947-5-1 and EN 418, use slow-make switching elements</p>		<p>Emergency-stop, key release, 37mm diameter, foolproof to EN 60947-5-1 and EN 418, use slow-make switching elements</p>			<p>Mushroom headed pushbutton, plastic bezel and aluminium bezel, 22.5mm mounting, function momentary</p>																																																									
<table border="1"> <thead> <tr> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>704.064.2</td> </tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </tbody> </table>		Part No.	704.064.2										<table border="1"> <thead> <tr> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>704.066.2</td> </tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </tbody> </table>			Part No.	704.066.2										<table border="1"> <thead> <tr> <th>Colour</th> <th>Part No., Plastic</th> <th>Part No., Aluminium</th> </tr> </thead> <tbody> <tr> <td>● Red</td> <td>704.070.2</td> <td>704.071.2</td> </tr> <tr> <td>● Yellow</td> <td>704.070.4</td> <td>704.071.4</td> </tr> <tr> <td>● Green</td> <td>704.070.5</td> <td>704.071.5</td> </tr> <tr> <td>● Black</td> <td>704.070.0</td> <td>704.071.0</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Colour	Part No., Plastic	Part No., Aluminium	● Red	704.070.2	704.071.2	● Yellow	704.070.4	704.071.4	● Green	704.070.5	704.071.5	● Black	704.070.0	704.071.0																		
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Complete switch

Features

- IP65 protection
- Renowned in the transportation sector for guaranteed reliability
- Modular switching system
- Intensive LED illumination
- Good snap action tactile feel
- Self cleaning contacts
- Stackable contact blocks
- Flush mount aluminium protective cover (to prevent accidental operation, damage)
- Spring return to close
- Worldwide approvals

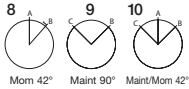
Choose one component from each of the coloured sections to assemble a complete switch.
For other options or further information please contact your local sales office.



Key insert switch



Crew insert switch, stainless steel front ring, flush mount, 30.5mm mounting



Drawing	Part No.	Momentary/Maintained
8	704.103.0.*28	Momentary
9	704.101.0.*28	Maintained
10	704.093.0.*18	Maintained/Maintained
10	704.095.0.*18	Momentary/Momentary
10	704.097.0.*18	Maintained/Momentary

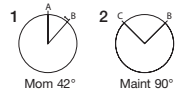
*Customised key shape will be given a specified letter by EAO. When ordering please include dimensional drawing and sample key

For complete switch also order **A**

Keylock switch



Keylock switch 2 position, raised, 22.5mm mounting

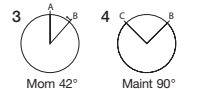


Drawing	Part No.	Momentary/Maintained	Key rem.
1	704.123.0	Momentary	A
2	704.121.0	Maintained	C
2	704.122.0	Maintained	C + B

For complete switch also order **A**



Keylock switch 2 position, flush mount, 30.5mm mounting



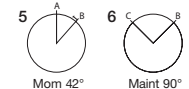
Drawing	Part No.	Momentary/Maintained	Key rem.
3	704.123.018	Momentary	A
4	704.121.018	Maintained	C
4	704.122.018	Maintained	C + B

For complete switch also order **A**

Keylock switch



Keylock switch 2 position, flush mount, 30 x 30mm mounting

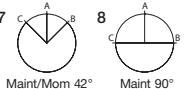


Drawing	Part No.	Momentary/Maintained	Key rem.
5	704.343.008	Momentary	A
6	704.341.008	Maintained	C
6	704.342.008	Maintained	C + B

For complete switch also order **A**



Keylock switch 3 position, raised, 22.5mm mounting

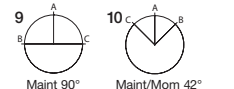


Drawing	Part No.	Momentary/Maintained	Key rem.
7	704.115.0	Momentary	A
7	704.114.0	Maintained	A
7	704.116.0	Maintained	C + B
8	704.113.0	Maintained	C + A + B

For complete switch also order **A**



Keylock switch 3 position, flush mount, 30.5mm mounting




Drawing	Part No.	Momentary/Maintained	Key rem.
9	704.113.018	Maintained	C + A + B
10	704.115.018	Momentary	A
10	704.114.018	Maintained	A
10	704.116.018	Maintained	C + B

For complete switch also order **A**

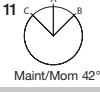


Choose one component from each of the coloured sections to assemble a complete switch.


Keylock switch





Keylock switch
3 position, flush mount,
30 x 30mm mounting




Selector switch





Selector switch short lever
2 position, raised,
22.5mm mounting



Selector switch short lever
2 position, flush mount,
30.5mm mounting


Drawing	Part No.	Momentary/Maintained	Key rem.	Drawing	Part No.	Momentary/Maintained	Bezel	Drawing	Part No.	Momentary/Maintained	Bezel
11	704.335.008	Momentary	A	12	704.412.0	Momentary	Grey plastic	14	704.413.018	Momentary	Aluminium
11	704.334.008	Maintained	A	12	704.413.0	Momentary	Aluminium	15	704.411.018	Maintained	Aluminium
11	704.336.008	Maintained	C + B	13	704.410.0	Maintained	Grey plastic				
11	704.333.008	Maintained	C + A + B	13	704.411.0	Maintained	Aluminium				

For complete switch also order **A**



For complete switch also order **A**


For complete switch also order **A**

Selector switch





Selector switch short lever
2 position, flush mount,
30 x 30mm mounting

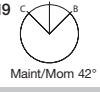


Selector switch short lever
3 position, raised,
22.5mm mounting





Selector switch short lever
3 position, flush mount,
30.5mm mounting



Drawing	Part No.	Momentary/Maintained	Bezel	Drawing	Part No.	Momentary/Maintained	Bezel	Drawing	Part No.	Momentary/Maintained	Bezel
16	704.512.008	Momentary	Black plastic	18	704.404.0	Momentary	Grey plastic	19	704.405.018	Momentary	Aluminium
17	704.510.008	Maintained	Black plastic	18	704.405.0	Momentary	Aluminium	19	704.403.018	Maintained	Aluminium
				18	704.402.0	Maintained	Grey plastic				
				18	704.403.0	Maintained	Aluminium				

For complete switch also order **A**

For complete switch also order **A**

For complete switch also order **A**

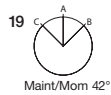
Choose one component from each of the coloured sections to assemble a complete switch.
For other options or further information please contact your local sales office.

		A
BLOCK	LED	ACCESSORIES

 Selector switch



Selector switch short lever
3 position, flush mount,
30 x 30mm mounting

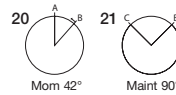


Drawing	Part No.	Momentary/Maintained	Bezel
19	704.504.008	Momentary	Black plastic
19	704.502.008	Maintained	Black plastic

For complete switch also order  **A**

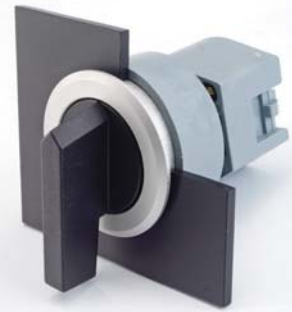


Selector switch long lever 2 position, raised,
22.5mm mounting

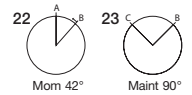


Drawing	Part No.	Momentary/Maintained	Bezel
20	704.102.0	Momentary	Grey plastic
20	704.103.0	Momentary	Aluminium
21	704.100.0	Maintained	Grey plastic
21	704.101.0	Maintained	Aluminium

For complete switch also order  **A**



Selector switch long lever 2 position, flush mount,
30.5mm mounting



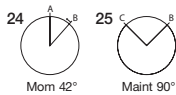
Drawing	Part No.	Momentary/Maintained	Bezel
22	704.103.018	Momentary	Aluminium
23	704.101.018	Maintained	Aluminium

For complete switch also order  **A**

 Selector switch



Selector switch long lever 2 position, flush mount,
30 x 30mm mounting



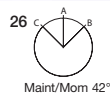
Drawing	Part No.	Momentary/Maintained	Bezel
24	704.302.008	Momentary	Black plastic
25	704.300.008	Maintained	Black plastic

For complete switch also order  **A**

 Selector switch

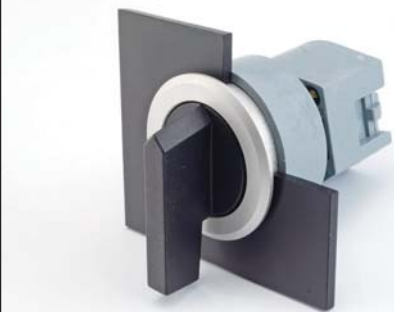


Selector switch long lever 3 position, raised,
22.5mm mounting

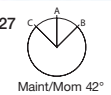


Drawing	Part No.	Momentary/Maintained	Bezel
26	704.094.0	Momentary	Grey plastic
26	704.095.0	Momentary	Aluminium
26	704.092.0	Maintained	Grey plastic
26	704.093.0	Maintained	Aluminium

For complete switch also order  **A**



Selector switch long lever 3 position, flush mount,
30.5mm mounting



Drawing	Part No.	Momentary/Maintained	Bezel
27	704.095.018	Momentary	Aluminium
27	704.093.018	Maintained	Aluminium

For complete switch also order  **A**

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

Product Profile

A range of lever switches to compliment the EAO Series 04 and are available with a choice of lever styles and switching action.

Options include momentary and maintained positions with 4 connection method types.

- IP54 Protection
- Switch Rating, 10A, 250VAC
- Flush Mounting into 33.5mm dia. cut out
- Up to 5 switching Positions
- Different handle shapes available
- LED Illumination Option
- Mechanical Life of minimum 5 Million Operations
- Connection types: Screw Terminal, Plug-in, JST Connector, Fast-on 6.3mm, cage clamp®

Lever switch



Lever switch, 2-5 positions, cage clamp®, aluminium bezel, silver contacts, 33.5mm mounting

Colour	Range	Momentary/ Maintained	Contact type	Voltage
● Black	S 41*	Momentary/ Maintained	max. 5 contacts (NC/NO)	max.250VAC/DC, 1.5A
*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.				



Lever switch, 2-5 positions, JST pin header, aluminium bezel, silver contacts, 33.5mm mounting

Colour	Range	Momentary/ Maintained	Contact type	Voltage
● Black	S 42*	Momentary/ Maintained	max. 5 contacts (NC/NO)	max.250VAC/DC, 1.5A
*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.				

Lever switch



Lever switch, 2-5 positions, plug-in terminal, aluminium bezel, silver contacts, 33.5mm mounting

Colour	Range	Momentary/ Maintained	Contact type	Voltage
● Black	S 43*	Momentary/ Maintained	max. 5 contacts (NC/NO)	max.250VAC/DC, 1.5A
*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.				



Lever switch, 2-5 positions, cage clamp®, aluminium bezel, silver contacts with positive opening, 33.5mm mounting

Colour	Range	Momentary/ Maintained	Contact type	Voltage
● Black	S 44*	Momentary/ Maintained	max. 4 contacts (NC/NO)	max.250VAC/DC, 10A
*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.				



Lever switch, 2-5 positions, plug-in or screw terminals, aluminium bezel, silver contacts with positive opening, 33.5mm mounting

Colour	Range	Momentary/ Maintained	Contact type	Voltage
● Black	S 45*	Momentary/ Maintained	max. 4 contacts (NC/NO)	max.250VAC/DC, 10A
*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.				



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

Buzzer



Buzzer, plastic bezel, raised, 22.5mm mounting, 24VDC, 95dB ± 8 at a distance of 0.1m

Part No.	Front finish
14-810.002	Black plastic
14-810.902	Chromium-plated



Buzzer, plastic bezel, flush mount, 30.5mm mounting, 24VDC, IP40, 95dB ± 8 at a distance of 0.1m

Part No.	Front finish
14-810.910	Black plastic
14-810.918	Chromium-plated

Contact block



Contact block, screw terminal, snap-action with self-cleaning silver contacts

Part No.	Contact type
704.900.1*	1NO
704.900.2*	1NC
704.900.3*	2NO
704.900.4*	2NC
704.900.5*	1NO/1NC

Other contact materials available. Please contact us.
*Add suffix 'B' for non captive screw with flat washer and spring washer option

For complete switch also order

Contact block



Contact block, plug-in terminal, 6.3mm, snap-action with self-cleaning silver contacts

Part No.	Contact type
704.905.1*	1NO
704.905.2*	1NC
704.905.3*	2NO
704.905.4*	2NC
704.905.5*	1NO/1NC

Other contact materials available. Please contact us.
*Add suffix 'D' for double plug-in terminal

For complete switch also order



Contact block, screw terminal, slow-make with forced opening silver contacts

Part No.	Contact type
704.910.2*	1NC
704.910.4*	2NC
704.910.5*	1NO/1NC

Other contact materials available. Please contact us.
*Add suffix 'B' for non captive screw with flat washer and spring washer option

For complete switch also order



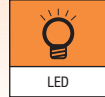
Contact block, plug-in terminal, 6.3mm, slow-make with forced opening silver contacts

Part No.	Contact type
704.915.2*	1NC
704.915.4*	2NC
704.915.5*	1NO/1NC

Other contact materials available. Please contact us.
*Add suffix 'D' for double plug-in terminal

For complete switch also order

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.



Contact block



Kraus & Naimer contact block, multi position, screw terminal from 2 - 12 positions

LED



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



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

	Colour	Part No.	Voltage	Colour	Part No.	Voltage
	Red	10-2506.1082	6VDC, 17mA	Red	10-2512.1142	24VAC/DC, 15mA
	Yellow	10-2506.1084	6VDC, 17mA	Yellow	10-2512.1144	24VAC/DC, 15mA
	Green	10-2506.1085	6VDC, 17mA	Green	10-2512.1145	24VAC/DC, 7mA
	Blue	10-2506.1086	6VDC, 7mA	Blue	10-2512.1146	24VAC/DC, 15mA
	White	10-2506.1089	6VDC, 17mA	White	10-2512.1149	24VAC/DC, 15mA
	Red	10-2509.1142	12VAC/DC, 16mA	Red	10-2513.1142	28VAC/DC, 13mA
	Yellow	10-2509.1144	12VAC/DC, 16mA	Yellow	10-2513.1144	28VAC/DC, 13mA
Customised switching element part number to be supplied by EAO, once schematic diagram has been defined. For further information please contact your local sales office.	Green	10-2509.1145	12VAC/DC, 7mA	Green	10-2513.1145	28VAC/DC, 7mA
	Blue	10-2509.1146	12VAC/DC, 16mA	Blue	10-2513.1146	28VAC/DC, 13mA
	White	10-2509.1149	12VAC/DC, 16mA	White	10-2513.1149	28VAC/DC, 13mA

For complete switch also order

LED



LED, Ba9s, single chip, 48 Volt



LED, Ba9s, single chip, 110 Volt with surge and transient protection



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

Colour	Part No.	Voltage	Colour	Part No.	Voltage	Colour	Part No.	Voltage
Red	10-2519.1052	48VAC/DC, 8mA	Red	10-2422.3052	110VDC, 5.5mA	Red	10-2H24.2052	130VAC / 5mA
Yellow	10-2519.1054	48VAC/DC, 8mA	Yellow	10-2422.3054	110VDC, 5.5mA	Yellow	10-2H24.2054	130VAC / 5mA
Green	10-2519.1055	48VAC/DC, 4mA	Green	10-2422.3055	110VDC, 5.5mA	Green	10-2H24.2055	130VAC / 3mA
Blue	10-2519.1056	48VAC/DC, 8mA	Blue	10-2422.3056	110VDC, 5.5mA	Blue	10-2H24.2056	130VAC / 5mA
White	10-2519.1059	48VAC/DC, 8mA	White	10-2422.3059	110VDC, 5.5mA	White	10-2H24.2059	130VAC / 5mA
						Red	10-2H25.2042	230VAC / 3mA
						Yellow	10-2H25.2044	230VAC / 3mA
						Green	10-2H25.2045	230VAC / 2mA
						Blue	10-2H25.2046	230VAC / 3mA
						White	10-2H25.2049	230VAC / 3mA



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

A Accessories



Lamp / LED block, screw terminal



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



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

Part No.	Part No.	Colour	Part No.
704.950.0*	704.950.1*	Red	704.602.2
		Yellow	704.602.4
		Green	704.602.5
		Blue	704.602.6
		Clear	704.602.7
*Add suffix 'B' for non captive screw with flat washer and spring washer option	*Add suffix 'D' for double plug-in terminal		For complete lens also order diffuser 704.609.9 (see page 38)

A Accessories



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



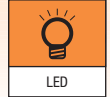
Lens cap, round, aluminium anodised for raised and flush mount pushbutton actuators



Protective cover, raised pushbutton

Part No.	Part No.	Comment	Part No.
Red 704.611.2	Red 704.601.2		704.925.0
Yellow 704.611.4	Yellow 704.601.4		
Green 704.611.5	Blue 704.601.6		
Blue 704.611.6	Silver 704.601.8		
Clear 704.611.7	Silver 704.601.81	Window for illumination	
	Black 704.601.0		
	Black 704.601.01	Window for illumination	
For complete lens also order diffuser 704.610.9 (see page 38)			

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



Aluminium protective cover for flush mount pushbutton with fitted spring, closed

Colour	Part No.
● Red	704.928.12
● Yellow	704.928.14
● Blue	704.928.16
○ Natural	704.928.18



Aluminium protective cover for flush mount selector switch short lever with fitted spring, closed

Colour	Part No.
○ Natural	704.928.28



Aluminium protective cover for flush mount selector switch, lockable

Colour	Part No.
○ Natural	704.928.38

A Accessories



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

Part No.	Size
704.600.3	29mm Ø for raised pushbutton
704.955.3	35mm Ø for flush mount pushbutton



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

Part No.
704.927.4



Emergency-stop switch label, 60mm diameter, English, German, French and Dutch

Part No.	Markings
704.963.6	Emergency stop
704.963.5	Not Aus
704.963.7	Arret D'urgence
007.963.6	Noodstop



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

A Accessories



Emergency-stop switch enclosure with 22.5mm mounting hole, 83mm (w) x 83mm (h) x 59mm (d)

	Part No.
1	704.945.0
2	704.945.6



Blanking plate

Part No.	Mounting hole
704.960.7	22.5mm Ø
704.964.8	30.5mm Ø
704.964.9	30 x 30mm



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

Part No.
700.006.0

A Accessories

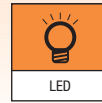
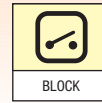
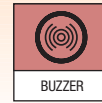


Lens remover for square pushbuttons and indicators

Part No.
98-968



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.



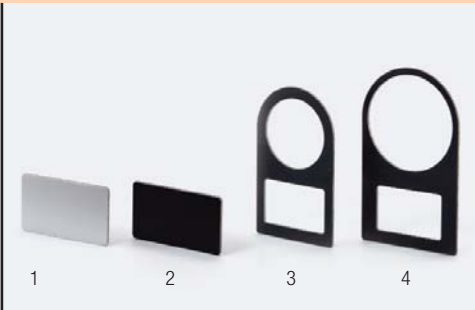
A Accessories



Mounting flange



Diffuser for raised indicator, diffuser for flat lens indicator and pushbutton, diffuser for raised pushbutton



Legend plate, adhesive, natural anodised aluminium finish for raised and flush mount pushbuttons

Part No.	Material	Image	Part No.	Product description	Image	Part No.	Mounting hole	Legend plate
704.960.5	Metal	1	704.608.9	Diffuser for raised indicator	1	704.968.0	23.5 x 14.5mm	Aluminium
704.950.5	Plastic	2	704.609.9	Diffuser for flat lens	2	704.968.1	23.5 x 14.5mm	Black
		3	704.610.9	Diffuser for raised pushbutton	3	704.968.2	22.5mm Ø	Black
					4	704.968.3	30.5mm Ø	Black
						704.968.4	35 x 18mm	Aluminium
						704.968.5	35 x 18mm	Black



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.

Material

Material of contacts

hardsilver, gold/silver, silver/palladium (for aggressive atmospheres)

Switching element

polycarbonate PC

Mechanical characteristics

Connection method

screw terminals

plug-in terminals 6.3 x 0.8 mm:

max. wire cross-section: 2 x 2.5 mm

max. wire cross-section of stranded cable: 2 x 1.5 mm

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

Starting torque

screws at the mounting flange: max. 25 Ncm

screws at switching element: max. 50 Ncm

Actuating force

11-20 N ± 1 N

depending on the number of switching elements, 1 to 3 elements

Storage temperature

-40°C to + 85°C

Mechanical life

- | | |
|------------------|--|
| pushbuttons: | - maintained action 1.5 million cycles of operation
- momentary action 3 million cycles of operation |
| selector switch: | - maintained action 1.25 million cycles of operation
- momentary action 2.5 million cycles of operation |
| e-stop switch: | - >= 50'000 cycles of operation |
| keylock switch: | - maintained action 25'000 cycles of operation
- momentary action 50'000 cycles of operation |

Rebound time

<= 3 ms

Travel

5.8 ± 0.2 mm

Resistance to shock

(single impacts, semi-sinusoidal)

30 g for 11 ms as per EN 60 947-5-1

Resistance to vibration

(sinusoidal)

10 g at 10-2000 Hz, amplitude 0,75 mm as per EN 60 947-5-1

Ambient air temperature

min. - 25°C (- 40° with restriction)

max. without illumination: + 80°C

max. with neon lamp + 80°C

max. with LED: + 80°C

max. with incandescent lamp: + 40°C

(as per DIN IEC 68-)

Electrical characteristics

Rated insulation voltage

500 VAC/600 VDC as per VDE 0100, group C

Standards

The switches comply with the "Standards for low-voltage switching devices" EN 60 947-5-1

Contact resistance

starting value <= 50 mΩ as per IEC 512-2-4

Insulation resistance

>= 10 mΩ between open contacts at 500 VDC, as per IEC 512-2-10

Continuous thermal current I_{th2}

10 A

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

Switch rating max.

at switch rating AC for gold-, silver- and hard silver contacts service category AC-15 as per EN60947-5-1 (cos φ = 0.7)

voltage: 230 VAC 400 VAC 500 VAC

current: 6 A 4 A 2.5 A

at switch rating DC for gold-, silver- and hard silver contacts

service category DC as per EN60947-5-1

L/R=100 ms at P>=50 W and

L/R=2 x P ms<50 W

WOP stands for switch rating in watt

voltage: 24 VDC 60 VDC 110 VDC

current: 10 A 3 A 1 A

Switch rating min.

gold/silver contacts:

voltage: 5 VDC 24 VDC 110 VDC

current: 15 mA 5 mA 2 mA

hard silver contacts:

voltage: 24 VDC 110 VDC

current: 50 mA 10 mA

Electric strength

5000 VAC, 50 Hz, 1 min. between all terminals and earth.

Approvals

- SEV 500 VAC/10 A
- CSA 300 VAC
- UL 600 VAC HD
- German Navy
- German Lloyd
- CE (declaration of conformity)
- CB

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. Slow-make contacts with forced action are ideal for high switch ratings. Up to 3 switching elements can be snapped to each actuator.

Material

Material of contacts

hardsilver, gold/silver, silver/palladium (for aggressive atmospheres)

Switching element

polycarbonate PC

Mechanical characteristics

Connection method

screw terminals
 plug-in terminals 6.3 x 0.8 mm:
 max. wire cross-section: 2 x 2.5 mm
 max. wire cross-section of stranded cable: 2 x 1.5 mm
 For switches with plug-in terminals it is necessary to provide insulation sockets and to maintain a spacing of 65 mm between rows (mounting dimensions).

Starting torque

screws at the mounting flange: max. 25 Ncm
 screws at switching element: max. 50 Ncm

Actuating force

13-36 N ± 1 N
 depending on the number of switching elements, 1 to 3 elements

Storage temperature

-40°C to + 85°C

Mechanical life

pushbuttons: - maintained action 1.5 million cycles of operation
 - momentary action 3 million cycles of operation
 selector switch: - maintained action 1.25 million cycles of operation
 - momentary action 2.5 million cycles of operation
 e-stop switch: - >= 50'000 cycles of operation
 keylock switch: - maintained action 25'000 cycles of operation
 - momentary action 50'000 cycles of operation

Travel

5.8 ± 0.2 mm

Resistance to shock

(single impacts, semi-sinusoidal) 30 g for 11 ms as per EN 60 947-5-1

Resistance to vibration

(sinusoidal) 10 g at 10-2000 Hz, amplitude 0,75 mm as per EN 60 947-5-1

Rebound time

<= 1 ms

Ambient air temperature

min. - 25°C (- 40° with restriction)
 max. without illumination: + 80°C
 max. with neon lamp + 80°C
 max. with LED: + 80°C
 max. with incandescent lamp: + 40°C

Electrical characteristics

Rated insulation voltage

500 VAC/600 VDC as per VDE 0100, group C

Standards

The switches comply with the Rules for low-voltage switching devices EN 60 947-5-1

Contact resistance

starting value <= 50 mΩ as per IEC 512-2-4

Insulation resistance

>= 100 mΩ between open contacts at 500 VDC, as per IEC 512-2-10.

Continuous thermal current Ith₂

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

Switch rating max.

at switch rating AC for gold-, silver- and hard silver contacts
 service category AC-15 as per EN60947-5-1 (cos ϕ = 0.7)
 voltage: 230 VAC 400 VAC 500 VAC
 current: 7 A 5 A 4 A

At switch rating DC for gold-, silver- and hard silver contacts
 service category DC as per EN60947-5-1

L/R=100 ms at P>=50 W and

L/R=2 x P ms<50 W

WOP stands for switch rating in watt

voltage:	24 VDC	60 VDC	110 VDC
----------	--------	--------	---------

current:	10 A	5 A	2.5 A
----------	------	-----	-------

Switch rating min.

gold/silver contacts:

voltage	24 VDC	110 VDC
---------	--------	---------

current:	10 mA	2 mA
----------	-------	------

hard silver contacts:

voltage	24 VDC	110 VDC
---------	--------	---------

current:	50 mA	10 mA
----------	-------	-------

Electric strength

5000 VAC, 50 Hz, 1 min. between all terminals and earth

Approvals

- SEV 500 VAC/10 A
- CSA 300 VAC
- UL 600 VAC HD
- German Navy
- German Lloyd
- CE (declaration of conformity)
- CB

Buzzer

Buzzer system

System

Piezo disc

Material

Alarm buzzer case

polyamide

Front cap

plastic: polyamide
 metal: nickel-plated brass sea-water proof

Mechanical characteristics

Connection method

plug-in terminal 2.8 x 0.5 mm

Operating temperature

-25°C to + 50°C

Storage temperature

-25°C to + 50°C

Degree of protection

IP 40 as per IEC 529 (flush mounting)

IP 65 (raised fitting) as per IEC 529

Electrical characteristics

Frequency (tone)

ca. 2.8 kHz continuous tone only

Sound pressure

95 db (A) ± 8 at a distance of 0.1 m

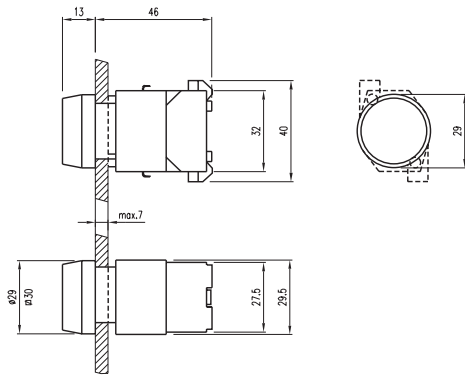
Operation voltage/current

operation voltage: 24 VDC ± 10%

operation current: <= 25 mA

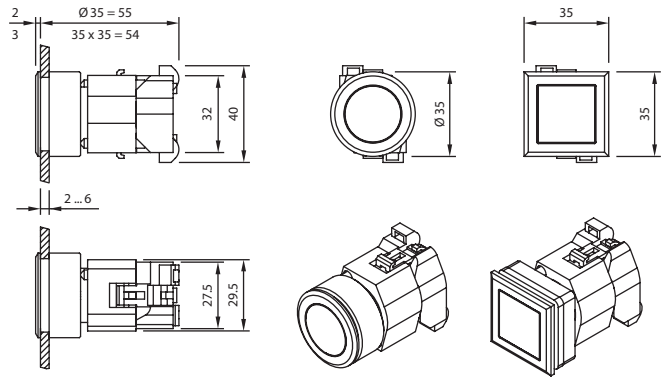
04 Indicator

Raised



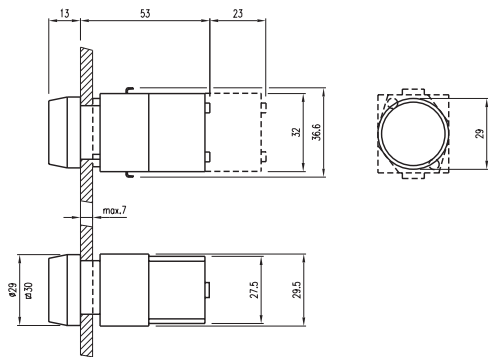
04 Indicator

Flush



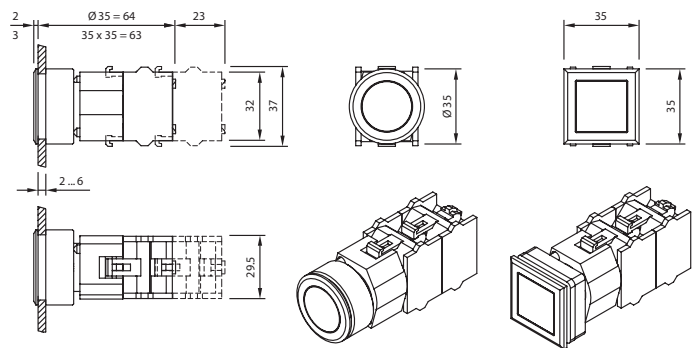
04 Pushbutton

Non-Illuminated, Raised



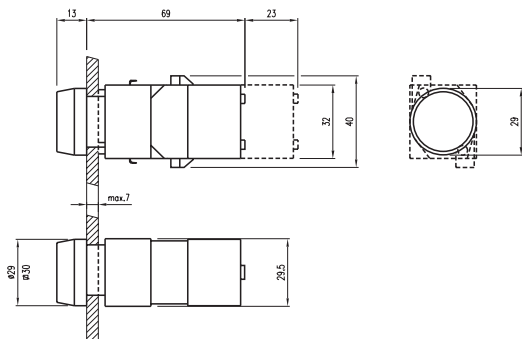
04 Pushbutton

Non-Illuminated, Flush



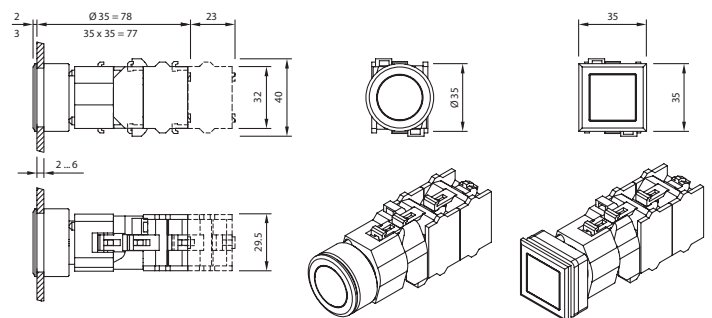
04 Pushbutton

Illuminated, Raised



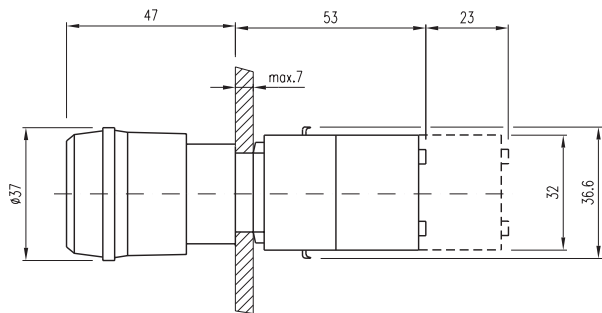
04 Pushbutton

Illuminated, Flush



04 E-Stop

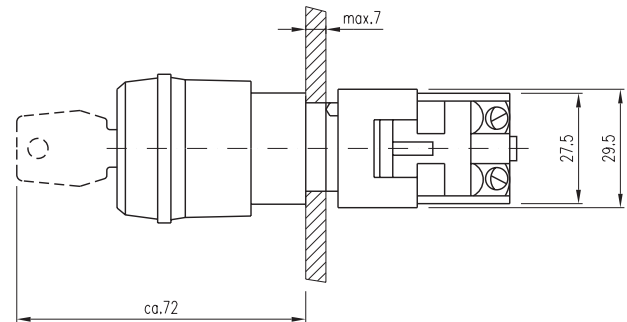
EN 418



twist to release

04 E-Stop

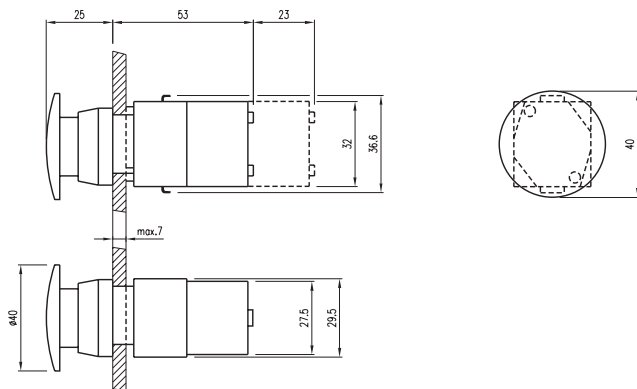
EN 418 with optional key



key to unlock

04 E-Stop Mushroom

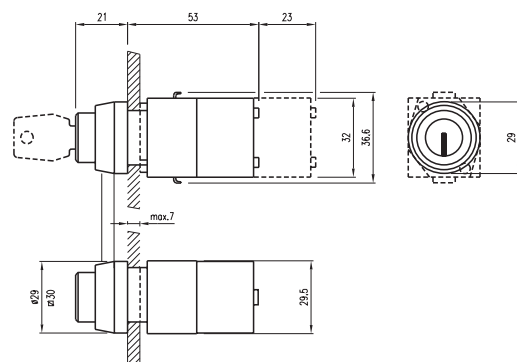
Pushbutton Mushroom



twist to release

04 Keylock

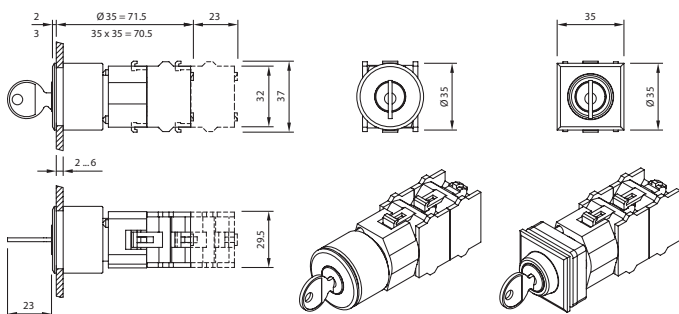
2-Position, 3-Position, Raised



twist to release

04 Keylock

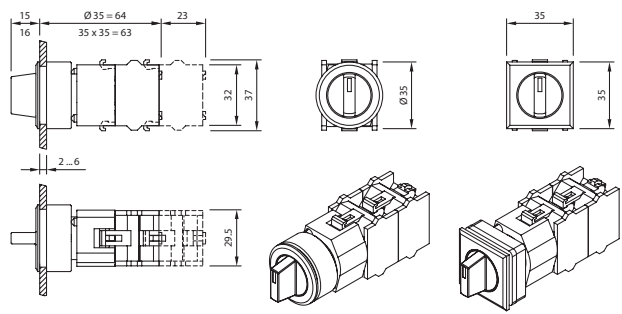
2-Position, 3-Position, Flush



twist to release

04 Selector

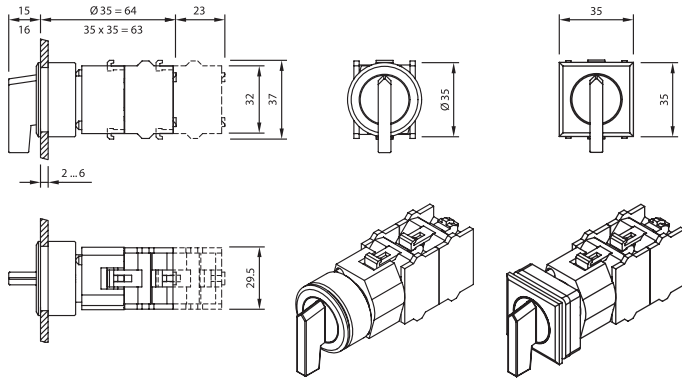
2-Position, 3-Position, Short, Flush



twist to release

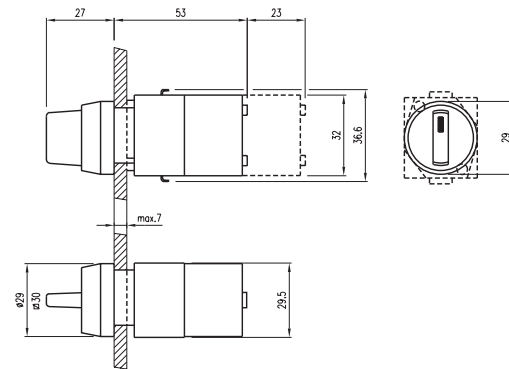
04 Selector

2-Position, 3-Position, Long, Flush



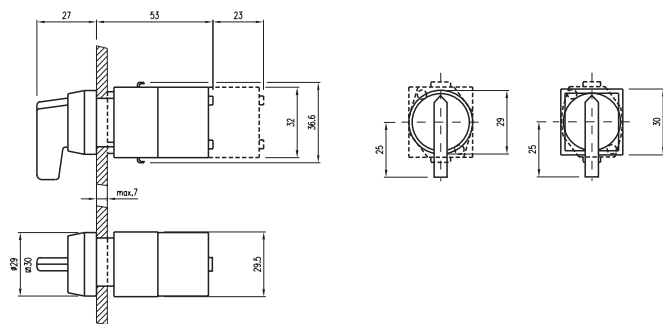
04 Selector, Short Lever

2-Position, 3-Position, Raised



04 Selector, Long Lever

2-Position, 3-Position, Raised

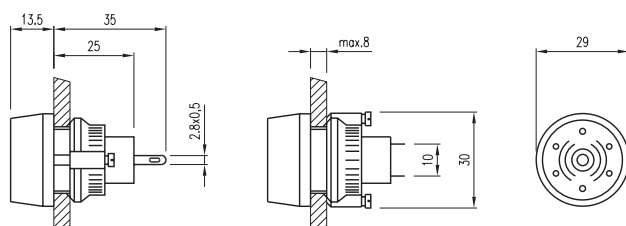


04 Lever switch

Separate technical document available.
Please contact your local sales office.

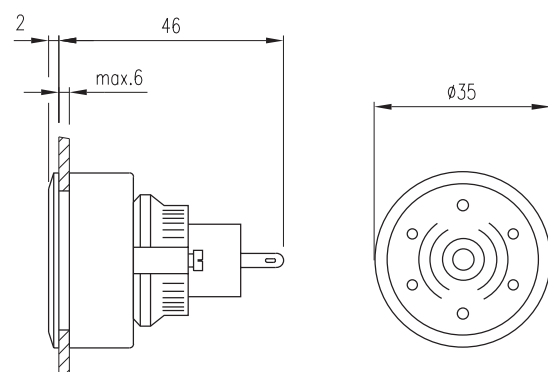
04 Buzzer

Raised

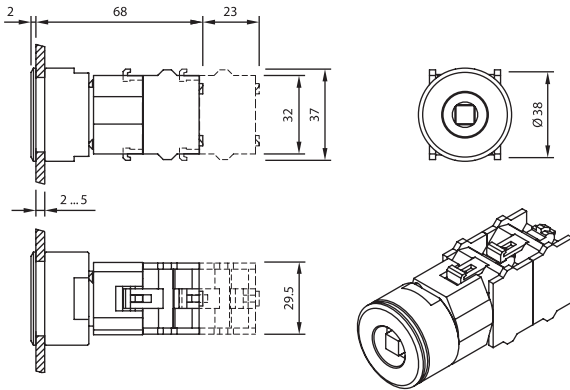


04 Buzzer

Flush

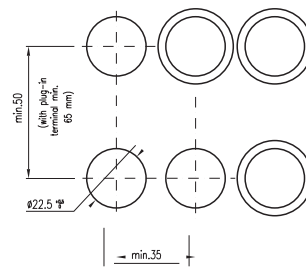


04 Key Insert Switch



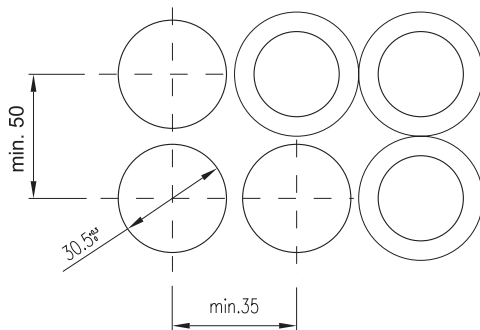
04 Cut-outs, Raised Mounting

(All but long lever)

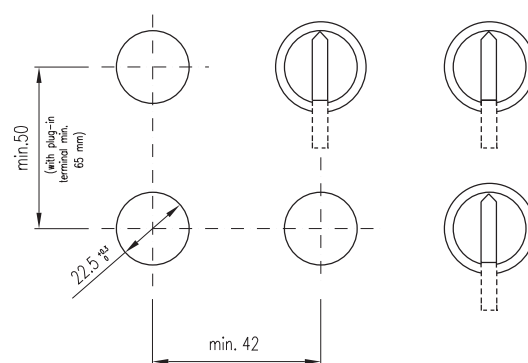


04 Cut-outs, Flush Mounting

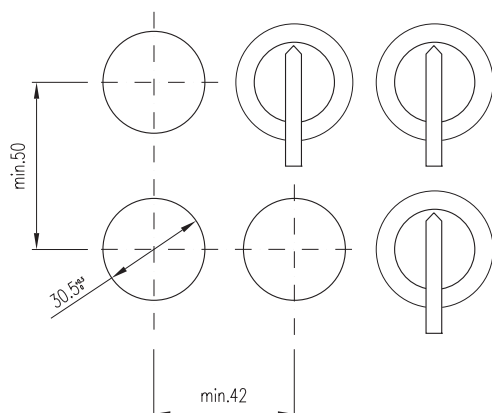
(All but long lever)



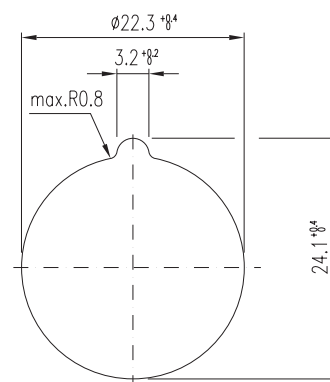
04 Long Lever Cut-outs, Raised Mounting



04 Long Lever Cut-outs, Flush Mounting

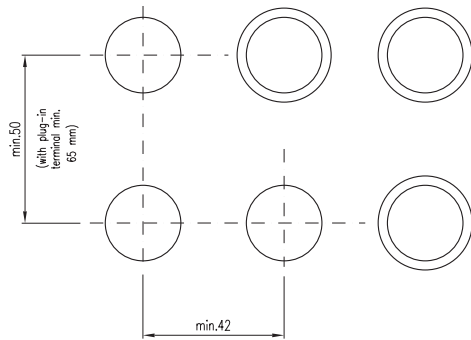


04 E-Stop EN418 Cut-outs

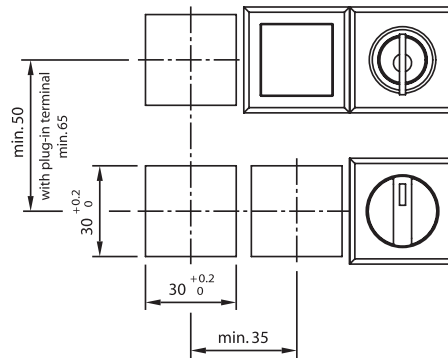


04 E-Stop Mushroom Cut-outs

Pushbutton Mushroom

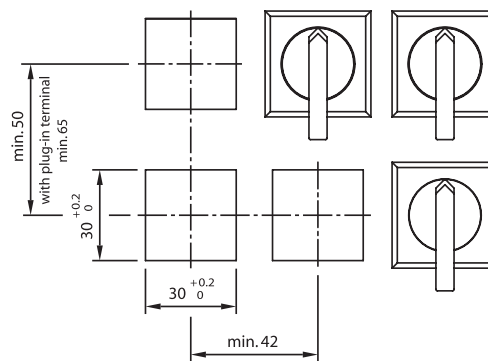
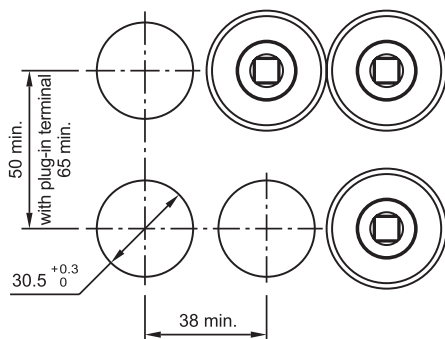


04 Cut-outs, Square, Flush Mounting

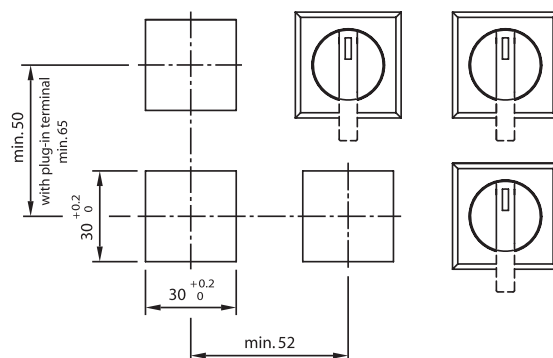


Indicator-, pushbutton-, keylock switch-, selector switch actuator short lever

04 Key Insert Cut-outs, Flush Mounting



Selector switch actuator long lever



Multi position rotary selector switch actuator



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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