



- Flexible configuration thanks to pushbutton, mushroom pushbutton, mushroom stay-put button, mushroom stay-put button with key lock, key-operated button and key-operated switch
- Easy to install using a single hole
- Codable "latching", "spring return" and "key not removable" functions
- Spring clamp terminals with connection chamber

**MY R. STAHL 8003A**



R. STAHL Series 8003 switches and control buttons for panel mounting take on various switching functions in latching and spring return positions up to 6 A, which can be subsequently recoded. They are fully certified, explosion-protected equipment with an Ex e connection chamber. With the patented mounting mechanism, panel mounting with drilled holes or openings of 30.5 mm is quick and easy. Compatible actuators are available for a comprehensive range of applications.

	IECEX / ATEX					
<b>Zone</b>	0	1	2	20	21	22
<b>Installation in</b>		•	•		•	•

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
<b>Division</b>	1	2	1	2	1	2
<b>Installation in</b>		•		•		









	CE Code Section 18					
	NEC® 505			NEC® 506		
	Class I					
<b>Zone</b>	0	1	2	20	21	22
<b>Installation in</b>		•	•			

Selection Table						
Actuator		Key-operated switch actuator With key actuator KMS1				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-KMS1 UL	204226	250 g
Actuator		Key-operated switch actuator With key actuator MS1				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS1 UL	127240	230 g
	-	2	Silver-nickel	8003/131-008-2-r-MS1 UL	127244	220 g
Actuator		Key-operated switch actuator With key actuator MS2				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS2 UL	213497	125 g

# Control button/switch for panel mounting

Series 8003 Spring clamp terminals with connection chamber for ATEX/IECEX and NEC®/CE Code applications

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Selection Table						
Actuator		Key-operated switch actuator With key actuator MS3				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS3 UL	279177	230 g
Actuator		Key-operated switch actuator With key actuator MS4				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS4 UL	279178	230 g
Actuator		Key-operated switch actuator With key actuator MS5				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS5 UL	278725	230 g
Actuator		Key-operated switch actuator With key actuator MS6				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS6 UL	278726	225 g
Actuator		Key-operated switch actuator With key actuator MS10				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS10 UL	278721	230 g
Actuator		Key-operated switch actuator With key actuator MS11				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS11 UL	278670	230 g
Actuator		Key-operated switch actuator With key actuator MS12				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS12 UL	278723	230 g
Actuator		Key-operated switch actuator With key actuator MS13				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS13 UL	278722	230 g

# Control button/switch for panel mounting

Series 8003 Spring clamp terminals with connection chamber  
for ATEX/IECEX and NEC®/CE Code applications

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Selection Table						
Actuator		Key-operated switch actuator With key actuator MS15				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-008-2-r-MS15 UL	278724	230 g
Actuator		Mushroom pushbutton				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-003 UL	127183	140 g
Actuator		Mushroom stay-put button				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-012S UL	257236	125 g
	2	–	Silver-nickel	8003/121-012S UL	257237	125 g
	–	2	Silver-nickel	8003/131-012S UL	257238	125 g
Actuator		Mushroom stay-put button EM-STOP				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-010S UL	217915	125 g
	2	–	Silver-nickel	8003/121-010S UL	217916	125 g
	–	2	Silver-nickel	8003/131-010S UL	217917	125 g
Actuator		Mushroom stay-put button EM-STOP, 55 mm				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-015S UL	217918	145 g
	2	–	Silver-nickel	8003/121-015S UL	217919	145 g
Actuator		Mushroom stay-put button With key actuator EM-STOP MS1				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-009S-MS1 UL	217911	140 g
Actuator		Pushbutton				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Gold-plated	8003/111-001-AU UL	213501	125 g
		1	Silver-nickel	8003/111-001S UL	217834	140 g
		1	Silver-nickel	8003/111-001 UL	126993	140 g
	2	–	Silver-nickel	8003/121-001S UL	217837	140 g
		–	Silver-nickel	8003/121-001 UL	127048	140 g
	–	2	Silver-nickel	8003/131-001S UL	217839	140 g
–	2	Silver-nickel	8003/131-001 UL	127125	140 g	
Actuator		Rotary actuator, small Not padlockable				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-726-2-r UL	213500	125 g
		1	Silver-nickel	8003/141-726-2-r UL	213549	125 g
	–	2	Silver-nickel	8003/131-726-2-r UL	213534	125 g

# Control button/switch for panel mounting

Series 8003 Spring clamp terminals with connection chamber for ATEX/IECEX and NEC®/CE Code applications

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## Selection Table

Actuator		Rotary actuator, small Not padlockable				
Number of switching positions		3				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	-	2	Silver-nickel	8003/131-726-3-rr UL	213535	125 g
	-	2	Silver-nickel	8003/131-726-3-tt UL	213537	125 g
Actuator		Rotary actuator, small Padlockable				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-727-2-r UL	218567	125 g
	-	2	Silver-nickel	8003/131-727-2-r UL	213538	125 g
Actuator		Rotary actuator, small Padlockable				
Number of switching positions		3				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	-	2	Silver-nickel	8003/131-727-3-rr UL	213539	125 g
Actuator		Selector switch				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Silver-nickel	8003/111-005 UL	127141	125 g
Actuator note		Switching element only; please order actuator separately				
Figure	Number of NCs	Number of NOs	Contact material	Product Type	Art. No.	Weight
	1	1	Gold-plated	8003/111 AU UL	280086	125 g
		1	Silver-nickel	8003/111 UL	127158	125 g
		1	Silver-nickel	8003/141 UL	127272	150 g
	2	-	Gold-plated	8003/121 AU UL	280087	150 g
		-	Silver-nickel	8003/121 UL	127175	150 g
	-	2	Gold-plated	8003/131 AU UL	280088	215 g
		2	Silver-nickel	8003/131 UL	127179	215 g

- Yellow backing plate for button with EMERGENCY STOP function is included
- Order designation plates and additional designation plates separately; see accessories
- Key-operated switch with "spring return" and/or "key not removable" functions on request
- Other key types possible on request
- Type 8003/1..-008.. key-operated switches and type 8003/1..-726-3 control switches can be coded ("latching", "spring return" or "key can be removed")

## Technical Data

Variant	8003/1.1-...	8003/1.1-...S
Explosion Protection		
IECEX gas explosion protection	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓜ II 2 G Ex db eb IIC T6 Gb	Ⓜ II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	Ⓜ II 2 D Ex tb IIIC T80 °C Db	Ⓜ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Canada (UL), IECEx (PTB), Korea (KGS), USA (UL) ATEX (PTB), Canada (UL), IECEx (PTB), Korea (KGS), USA (UL)	

# Control button/switch for panel mounting

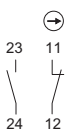
Series 8003 Spring clamp terminals with connection chamber  
for ATEX/IECEX and NEC®/CE Code applications

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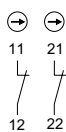
E4

Technical Data		
Variant	8003/1.1-...	8003/1.1-...S
<b>Explosion Protection</b>		
Declaration of Conformity	ATEX (EUK), ATEX (Simple apparatus), China (CCC), Declaration of Conformity (ATEX)	ATEX (EUK), ATEX (Simple apparatus), China (CCC), Declaration of Conformity (ATEX)
Notes	Product label may vary. Series devices are labelled with ATEX, IECEx, NEC® and CE Code.	
<b>Electrical Data</b>		
Rated operational voltage AC	500 V	500 V
Rated operational current	6 A	6 A
Switching capacity AC-12	500 V / 6 A / max. 3000 VA	500 V / 6 A / max. 3000 VA
Switching capacity AC-15	400 V / 6 A / max. 1250 VA	400 V / 6 A / max. 1250 VA
Switching capacity DC-13	110 V / 1 A / max. 110 W	110 V / 1 A / max. 110 W
Switching capacity DC-13<SoftReturn/>2 contact elements in series	60 V/6 A	60 V/6 A
<b>Ambient Conditions</b>		
Ambient temperature	-20 °C ... +60 °C	-55 °C ... +60 °C
Ambient temperature	-4 °F ... +140 °F	-67 °F ... +140 °F
Ambient temperature NEC®	-30 °C ... +60 °C	-55 °C ... +60 °C
Ambient temperature NEC®	-22 °F ... +140 °F	-67 °F ... +140 °F
<b>Mechanical Data</b>		
Degree of protection (IP) (IEC 60529)	Reverse side IP65, front side IP66	Reverse side IP65, front side IP66
Silicone-free	Yes	No
Connection cross-section	0.75 ... 1.5 mm <sup>2</sup>	0.75 ... 1.5 mm <sup>2</sup>
Connection cross-section AWG	18 AWG ... 12 AWG	18 AWG ... 12 AWG
Depth of cut-out	130 mm	130 mm
Mounting depth, inches	5.12 in	5.12 in
Service life, min.	10 <sup>5</sup> operating cycles	10 <sup>5</sup> operating cycles
<b>Mounting / Installation</b>		
Tightening torque	3 Nm	3 Nm
Tightening torque lbf in	26.55 lbf in	26.55 lbf in
<b>Components</b>		
Entry 1	8161/7-M16-0902	8161/7-M16-0902
Entry 1 type	Polyamide cable gland, black	Polyamide cable gland, black

## Technical Drawings – Subject to Alterations



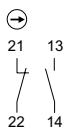
Schematic 8003/11.  
NO/positive opening NC



Schematic 8003/12.  
Positive opening NC






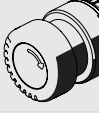



Schematic 8003/13.  
NO



Schematic 8003/14.  
Positive opening NC/NO

Accessories






Figure	Description	Art. No.	Weight
<b>Actuators</b>			
	Control switch, lockable Two switching positions: 0 = latching I = freely codable (all necessary coding elements are included)	155535	30 g
	Control switch, not lockable Three switching positions: I = freely codable 0 = latching II = freely codable (all necessary coding elements are included)	155536	30 g
	Control switch, not lockable Two switching positions: 0 = latching I = latching	155533	28 g
	Control switch, not lockable Two switching positions: 0 = spring return I = spring return	155542	28 g
	Control switch, not lockable Three switching positions: I = freely codable 0 = latching II = freely codable (all necessary coding elements are included)	155534	28 g
	Mushroom pushbutton dia. 38 mm, black	155526	28 g
	Pushbutton	155525	23 g
	Key-operated switch with two switching positions, MS1	155528	49 g
	Mushroom stay-put button EM-STOP	261756	100 g
	Mushroom stay-put button dia. 38 mm, black	155541	30 g
	Mushroom stay-put button EM-STOP, dia. 55	261757	100 g





# Control button/switch for panel mounting

Series 8003 Spring clamp terminals with connection chamber  
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Accessories			
Figure	Description	Art. No.	Weight
Locking devices			
	8602A0753 H24 for not actuated pushbutton/selector switch BG001, BG005	155372	81 g
	8602A0754 for actuated pushbutton/selector switch BG001, BG005	155402	28 g
	8602A0755 for not actuated pushbutton/selector switch BG001, BG005	155431	34 g
Protective collar			
	8602A0751 metal for pushbutton/selector switch/mushroom stay-put button with key lock/mushroom stay-put button/mushroom pushbutton dia. 39 BG001, BG003, BG005, BG008, BG009, BG010, BG012	155326	77 g
Spare key			
	Closing MS1	107109	8 g
	Closing MS3	272646	8 g
	Closing MS4	272647	8 g
	Locked using MS5 key	278668	8 g
	Locked using MS6 key	278669	8 g

Spare Parts			
Figure	Description	Art. No.	Weight
Locking devices			
	8602A0753 H24 for not actuated pushbutton/selector switch BG001, BG005	155372	81 g
	8602A0755 for not actuated pushbutton/selector switch BG001, BG005	155431	34 g
	8602A0754 for actuated pushbutton/selector switch BG001, BG005	155402	28 g
	8602A0757 for selector switch BG005	155460	33 g
Protective collar			
	8602A0751 metal for pushbutton/selector switch/mushroom stay-put button with key lock/mushroom stay-put button/mushroom pushbutton dia. 39 BG001, BG003, BG005, BG008, BG009, BG010, BG012	155326	77 g

Spare Parts			
Figure	Description	Art. No.	Weight
<b>Spare key</b>			
	Closing MS2	272645	8 g
<b>Label holder</b>			
	Label holder, size 1, without insert disc Labelling: 1-line can be installed in dia. 30.5 mm drilled holes for actuators	155632	1 g
	Label holder, size 2, without insert disc Labelling: 1- or 2-line can be installed in dia. 30.5 mm drilled holes for actuators	155687	2 g
	Label holder, size 3, without insert disc Labelling: 1-, 2- or 3-line can be installed in dia. 30.5 mm drilled holes for actuators	155844	2 g
<b>Designation plates for pushbuttons and selector switches</b>			
	Colour: Blue Enter text or symbol	155910	1 g
	Colour: Green Enter text or symbol	155900	1 g
	Colour: White Text: START	155889	1 g
	Colour: Blue Text: RESET	155894	1 g
	Colour: Black Text: Ab	155886	1 g
<b>Label, yellow, general</b>			
	for Ø 55 actuator (EM-STOP)	223572	1 g
	for Ø 39 actuator (EM-STOP)	223571	1 g


























# Control button/switch for panel mounting

Series 8003 Spring clamp terminals with connection chamber  
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Spare Parts			
Figure	Description	Art. No.	Weight
Designation plates for pushbuttons and selector switches			
	Colour: Black Text: Auf	155883	1 g
	Colour: Black Symbol: Arrow	155749	1 g
		155761	1 g
	Colour: Red Symbol: Arrow	155567	1 g
	Colour: Black Text: Links	155827	1 g
	Colour: Black Text: Rechts	155837	1 g
	Colour: Black Text: Open	155868	1 g
	Colour: Black Text: CLOSE	155878	1 g
	Colour: Black Text: Zu	155874	1 g
	Colour: Red Text: OFF	155654	1 g
	Colour: Green Text: ON	155671	1 g
	Colour: Red Text: AUS	155634	1 g











Spare Parts			
Figure	Description	Art. No.	Weight
Insert discs for label holder			
	One-line Plain Material: PVC Colour: White Self-adhesive	238271	10 g
Designation plates for pushbuttons and selector switches			
	Colour: Black Text: AUS	155806	1 g
Insert discs for label holder			
	Two-line Plain Material: PVC Colour: White Self-adhesive	238272	10 g
Designation plates for pushbuttons and selector switches			
	Colour: Black Text: EIN	155862	1 g
Insert discs for label holder			
	Three-line Plain Material: PVC Colour: White Self-adhesive	238273	10 g
Designation plates for pushbuttons and selector switches			
	Colour: Red Text: STOP	155615	1 g
	Colour: Black Text: STOP	155795	1 g
Closing part			
	8602C3-733-B for closing unused holes in cover, dia. 30.5 mm, NBR	244306	25 g
	8602C3-733-S for closing unused holes in cover, dia. 30.5 mm, silicone	244307	25 g
Designation plates for pushbuttons and selector switches			
	Colour: Black Text: I	155846	1 g
	Colour: Green Text: I	155689	1 g

# Control button/switch for panel mounting

Series 8003 Spring clamp terminals with connection chamber  
for ATEX/IECEX and NEC®/CE Code applications



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Spare Parts			
Figure	Description	Art. No.	Weight
Designation plates for pushbuttons and selector switches			
	Colour: White Text: I	155892	1 g
	Colour: Black Text: II	155854	1 g
	Colour: Green Text: II	155706	1 g
	Colour: Red Text: O	155596	1 g
	Colour: Black Text: O	155783	1 g
	Colour: Black Text: I O	155771	1 g
	Colour: Blue Blank disc without text	155911	1 g
	Colour: Yellow Blank disc without text	155914	1 g
	Colour: Red Blank disc without text	155897	1 g
	Colour: Green Blank disc without text	155901	1 g
	Colour: White Blank disc without text	155908	1 g
	Colour: Black Blank disc without text	155905	1 g

# Control button/switch for panel mounting

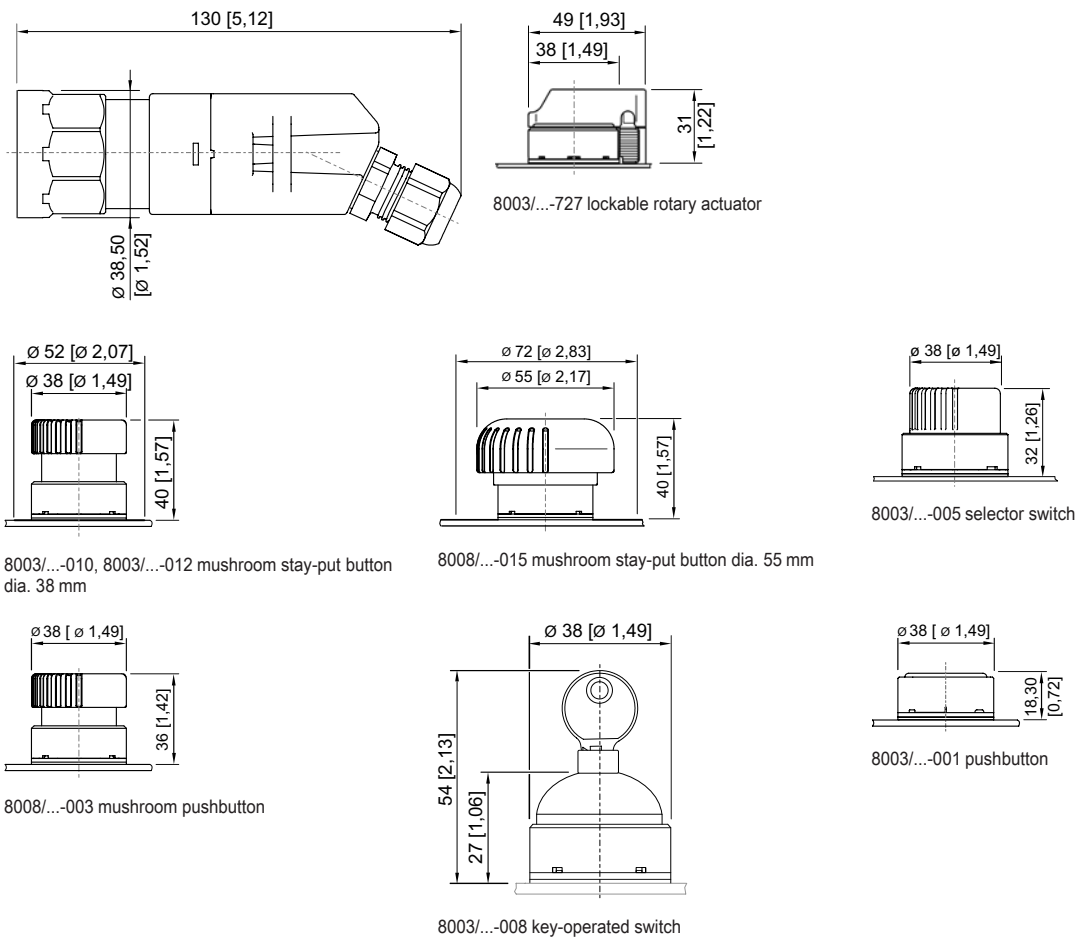
Series 8003 Spring clamp terminals with connection chamber for ATEX/IECEX and NEC®/CE Code applications

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## Spare Parts

Figure	Description	Art. No.	Weight
Conversion kit for key-operated switch			
	Coding element, 1 x red, 1 x yellow	155403	1 g
	Coding element, 1 x green, 1 x red	155432	1 g
	Coding element, 2 x yellow	155373	1 g

## Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

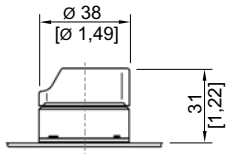


# Control button/switch for panel mounting

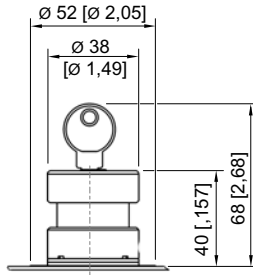
Series 8003 Spring clamp terminals with connection chamber  
for ATEX/IECEX and NEC®/CE Code applications



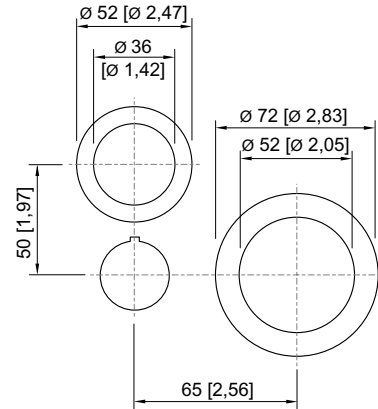
E4



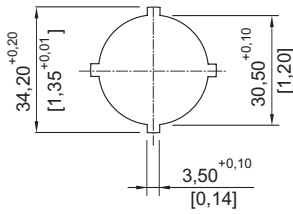
8003/...-726 rotary actuator



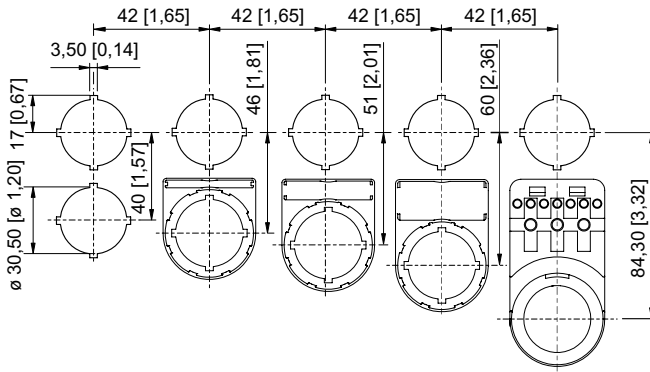
8003/...-006, 8003/...-009 mushroom stay-put button with key lock



8003/...-009, 8003/...-010, 8003/...-015 cut-out for EMERGENCY STOP button



Punch pattern



Cut-out with/without additional designation plate