



01863E00

Control Buttons / Switches for Panel Mounting Series 8003





- Explosion protection to
 - CENELEC
 - IEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Different actuators
 - pushbutton
 - mushroom pushbutton
 - mushroom stay-put button
 - mushroom stay-put button with key lock
 - key-operated button
 - key-operated switch
 - selector switch
- 2 contact elements
 - NO / NC
 - NC / NC
 - NO / NO
 - NC / NO
- Spring cage terminal in the connection area
- Simple fitting
- Control switch and key switch: the functions „latching“, „spring-return“ and/or „key not withdrawable“ can be coded at the already installed actuators on site

STAHL


The panel-mounting devices types 8003/1.1, 8003/1.2 and 8003/1.3 switch load, control and signal circuits. Types 8003/1.1 and 8003/1.3 are complete explosion-protected electrical devices. They are suitable for mounting in panels, covers of electrical devices and switch-boards. Types 8003/1.2 are incomplete explosion protected devices and only suitable for mounting in enclosures of protection „Increased Safety“ acc. to EN 50 019. The products are designed for single-hole fixing D 30 acc. to EN 50 007 in combination with actuators type 8602/2.

Zones 1 & 2, 21 & 22







Selection Table				
Version	Description		Order number	Weight kg
 <p>01641E00 Pushbutton, 8003/1...-001</p>	Spring cage terminal with connection area	NO / NC	8003/111-001	0.140
		NC / NC	8003/121-001	0.140
		NO / NO	8003/131-001	0.140
 <p>01642E00 Mushroom button, 8003/1...-003</p>	Spring cage terminal with connection area	NO / NC	8003/111-003	0.140
		NC / NC	8003/121-003	0.140
		NO / NO	8003/131-003	0.140
 <p>01644E00 Mushroom stay-put button, 8003/1...-010</p>	∅ 38 mm, red (EM-STOP) Spring cage terminal with connection area	NO / NC	8003/111-010	0.125
		NC / NC	8003/121-010	0.125
 <p>09875E00 Mushroom stay-put button, 8003/1...-012</p>	∅ 38 mm, black Spring cage terminal with connection area	NO / NC	8003/111-012	0.140
		NC / NC	8003/121-012	0.140
 <p>01643E00 Mushroom stay-put button, 8003/1...-015</p>	∅ 55 mm, red (EM-STOP) Spring cage terminal with connection area	NO / NC	8003/111-015	0.145
		NC / NC	8003/121-015	0.145
		NO / NO	8003/131-015	0.145
 <p>01645E00 Mushroom stay-put button with key lock, 8003/1...-009</p>	∅ 38 mm, red (EM-STOP) Spring cage terminal with connection area	NO / NC	8003/111-009	0.140
		NC / NC	8003/121-009	0.140
 <p>09876E00 Mushroom stay-put button with key lock, 8003/1...-006</p>	∅ 38 mm, black Spring cage terminal with connection area	NC / NC	8003/121-006	0.140
		NO / NO	8003/131-006	0.140
 <p>01059E00 Key-operated switch, 8003/1...-008-2</p>	2 positions Spring cage terminal with connection area	NO / NC	8003/111-008-2	0.140
		NC / NC	8003/121-008-2	0.140
		NO / NO	8003/131-008-2	0.140
 <p>10398E00 Key-operated switch, 8003/1...-008-3</p>	3 positions Spring cage terminal with connection area	NO / NC	8003/111-008-3	0.140
		NC / NC	8003/121-008-3	0.140
		NO / NO	8003/131-008-3	0.140
		NC / NO	8003/141-008-3	0.140

Selection Table

Version	Description	Order number	Weight kg	
 Selector switch, 8003/1...-005	Spring cage terminal with connection area	NO / NC	8003/111-005	0.125
		NC / NC	8003/121-005	0.125
		NO / NO	8003/131-005	0.125
Note	- yellow label for EM-STOP function is enclosed - labels must be ordered separately; see accessories - versions with 3 m, 6 m or 15 m flexible lead on request - key-operated switch with „spring-return“ functions and/or „key not removable“ on request - versions with other locking cylinders on request			

Technical Data

Explosion protection				
Gas explosion protection	⊕ II 2 G Ex de IIC T6			
Dust explosion protection	⊕ II 2 D Ex tD A21 IP65 T80 °C			
Certificates	PTB 02 ATEX 1057 X			
Other certificates	IECEX, USA (UL), Russia (CTB), Ukraine (ISCVE)			
Ambient temperature	- 20 °C ... + 60 °C			
Rated operational voltage	max. 550 V			
Rated operational current	max. 6 A			
Schematic	 10503E00 8003/11.	 09792E00 8003/12.	 09791E00 8003/13.	 09790E00 8003/14.
Min. voltage*	12 V AC / DC			
Min. current*	50 mA			
	* typical values dependent on conditions of use			
Switching capacity	switching capacity	AC 15	AC 12	DC 13
		500 V max. 6 A max. 1250 VA	500 V max. 6 A max. 3000 VA	110 V max. 6 A max. 110 W
	Rated operating characteristics referred to switching capacity			
Enclosure	Polyamide			
Contact material				
Standard	Silver-nickel			
Special	Silver-nickel, gold-plated			
Contact element	10 ⁶ operations			
Type of protection	IP65 (frontside IP66)			
	Degree of protection acc. IEC/EN 60 529			
Terminals	0.75 mm ² ... 1.5 mm ²			
Cable entry	Type 8003/1.1:	M16 x 1.5 (ø 4 - 9 mm)		

Technical Data

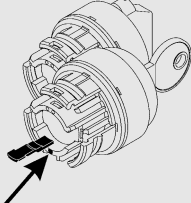
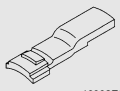
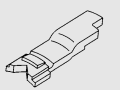
Pushbutton actuator	Spring-return actuator; interchangeable symbol labels
Mushroom button actuator	Spring-return actuator; only non-latching; black; ø 38 mm
Mushroom stay-put button actuator	Self-latching when pushed; released only by turning; ø 38 mm red or black, or ø 55 mm red; with yellow background labels; for EMERGENCY-STOP-function
Mushroom stay-put button with key lock actuator	Self-latching when pushed; released only with key; ø 38 mm red or black; with yellow background labels; for EMERGENCY-STOP-function; standard locking MS1
Key-operated switch actuator	Two- or three-position switches; key removable in all positions; function „spring return“ and/or „key not removable“ are codable; standard locking MS1
Selector switch actuator	Rotary knob with 2 rest positions; interchangeable symbol discs

Coding of Actuators Series 8602

You can change the functions „spring-return“ and „latching“ for the control switches and key switches by yourself on site at the already mounted actuator.
At the key switch actuators also the function „key not withdrawable“ can be coded on site.

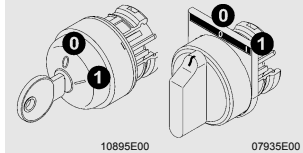
Actuators with 2 switching positions

for key switch (8602A0008-2-2-..),
for control switch (8602A0727-2-2-..)

coding element	switching position I	switching position 0
	 04542E00	
without	„latching“ key withdrawable	„latching“; key withdrawable; can not be coded
yellow  10902E00	„spring-return“ key not withdrawable	
red  10900E00	„latching“ key not withdrawable	

Note: The 2 position actuators type 8602A0726-2-2-.. for control switches are already configured „latching“ or „spring-return“ at the factory and cannot be coded on site!

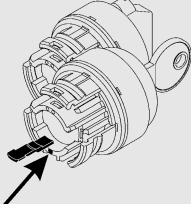
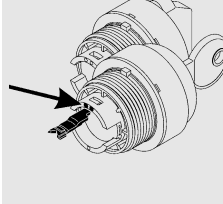
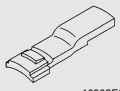
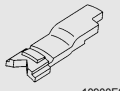
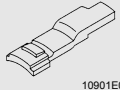
2 switching positions



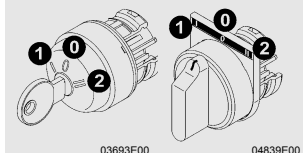
0 = switching position 0
1 = switching position I

Actuators with 3 switching positions

for key switch (8602A0008-2-2-..),
for control switch (8602A0727-2-2-..)

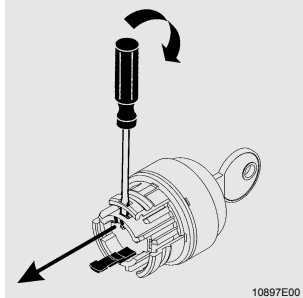
coding element	switching position I	switching position II	switching position 0
	 04542E00	 10898E00	
without	„latching“ key withdrawable	„latching“ key withdrawable	„latching“; key withdrawable; can not be coded
yellow  10902E00	„spring-return“ key not withdrawable	„spring-return“ key not withdrawable	
red  10900E00	--	„latching“ key not withdrawable	
green  10901E00	„latching“ key not withdrawable	--	















3 switching positions



0 = switching position 0
1 = switching position I
2 = switching position II

Demounting of coding elements

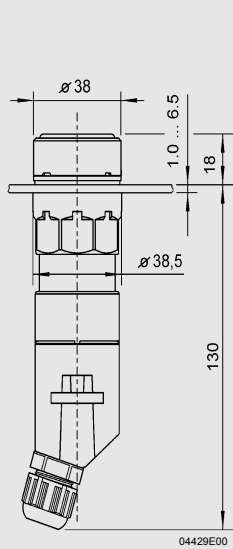


Accessories and Spare Parts					
Designation	Illustration	Description	Order number	Weight kg	
Actuators		for pushbutton	8003/...-001	155525	0.023
		for mushroom button Ø 38 mm, black	8003/...-003	155526	0.028
		for mushroom stay-put button Ø 38 mm, red (EM-STOP)	8003/...-010	155531	0.030
		for mushroom stay-put button Ø 38 mm, black	8003/...-012	155541	0.030
		for mushroom stay-put button Ø 55 mm, red (EM-STOP)	8003/...-015	155532	0.033
		for mushroom stay-put button with key- lock Ø 38 mm, black	8003/...-006	155540	0.062
		for mushroom stay-put button with key lock Ø 38 mm, red (EM-STOP)	8003/...-009	155530	0.062
		for key-operated switch with two-positions	8003/...-008-2	155528	0.049
		for key-operated switch with three-positions	8003/...-008-3	155529	0.049
		for selector switch	8003/...-005	155527	0.030
Spare keys		for all key-operated buttons / key-operated switches standard locking MS1		107109	0.008
		special locking MS2 ... MS20 (specify as text)		107110	0.008
Closure part		to close not used mounting holes Ø 30.5 mm		155329	0.016
Background label, yellow		for button with EMERGENCY-STOP function Ø 38 mm		130391	0.001
		Ø 55 mm		130524	0.002
Additional symbol labels		Label mount, size 1, without insertable label Text: 1 line		155632	0.002
		Label mount, size 2, without insertable label Text: 1 or 2 lines		155687	0.003
		Label mount, size 3, without insertable label Text: 1, 2 or 3 lines		155844	0.004
		for actuator inserts to fit standard d 30.5 mm holes Symbol labels: without text with text; please specify text HAND - 0 - AUTO I - 0 - II OFF - • - ON 0 - I - II 0 - I 0 - Operation - I I - II 0 - • - I			
Coding kit for key-operated switch		Coding kit to encode key-operated switch Type 8003/...-008-			
		Two-position switch „spring-return“ and/or „key not removable“		155432	0.001
		Three-position switch „spring-return“		155373	0.001
		Three-position switch „key not removable“		155403	0.001

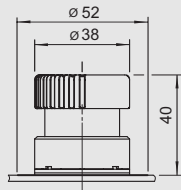


Accessories and Spare Parts					
Designation	Illustration	Description	Order number	Weight kg	
Symbol labels for pushbuttons and selector switches	<p>05753E00</p>	Colour	Symbol / Text		
		blue	plain disc (specify text)	155910	0.001
		yellow	plain disc (specify text)	155913	0.001
		red	plain disc (specify text)	155896	0.001
		green	plain disc (specify text)	155900	0.001
		white	plain disc (specify text)	155907	0.001
		black	plain disc (specify text)	155904	0.001
		blue	plain disc	155911	0.001
		yellow	plain disc	155914	0.001
		red	plain disc	155897	0.001
		green	plain disc	155901	0.001
		white	plain disc	155908	0.001
		black	plain disc	155905	0.001
		black	I	155846	0.001
		green	I	155689	0.001
		white	I	155892	0.001
		black	II	155854	0.001
		green	II	155706	0.001
		red	0	155596	0.001
		black	0	155783	0.001
		black	I 0	155771	0.001
		red	↶	155567	0.001
		black	⇌	155736	0.001
		black	↑	155749	0.001
		black	↗	155761	0.001
		black	CLOSE	155878	0.001
		black	Zu	155874	0.001
		black	Open	155868	0.001
		black	EIN	155862	0.001
		red	OFF	155654	0.001
		red	Aus	155634	0.001
		black	Aus	155806	0.001
		red	STOP	155615	0.001
		black	STOP	155795	0.001
green	START	155721	0.001		
white	START	155889	0.001		
blue	RESET	155894	0.001		
green	ON	155671	0.001		
black	Auf	155883	0.001		
black	Ab	155886	0.001		
black	Links	155827	0.001		
black	Rechts	155837	0.001		

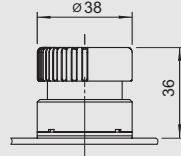
Dimension drawings (all dimensions in mm) - subject to alterations



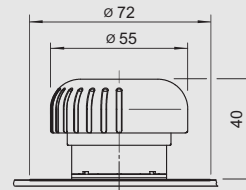
8003/1.1-001
Push button
with connection area



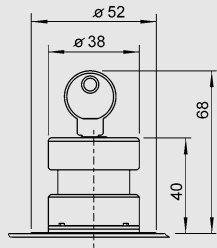
8003/...-010, -012,
Mushroom stay-put
button



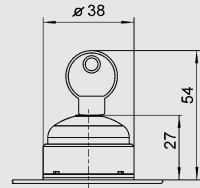
8003/...-003
Mushroom button



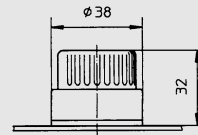
8003/...-015
Mushroom stay-put button



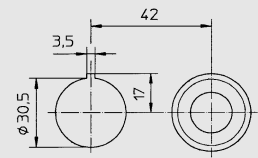
8003/...-006, -009
Key stay-put button



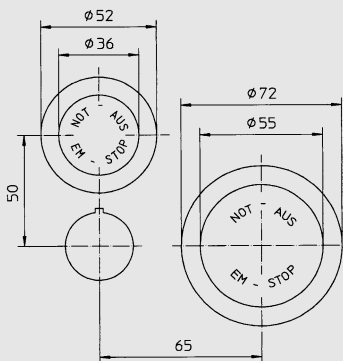
8003/...-008
Key-operated switch



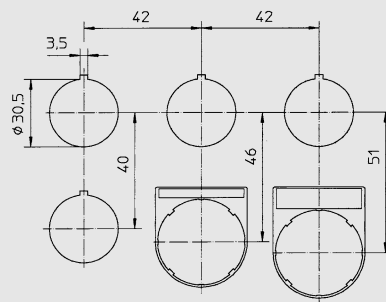
8003/...-005
Selector switch



Cut-out for aligning several
devices $\varnothing 38$ mm in a panel



Standard cut-out for EMERGENCY-STOP button
(**8003/...-009, -010, -015**)



Standard cut-out with / without front label

STAHL

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.