



Control Buttons/Switches for Panel Mounting Series 8003, 8083


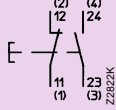
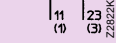
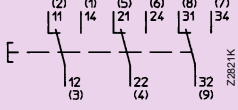

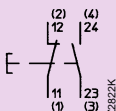
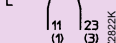
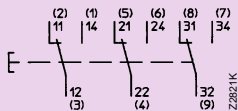

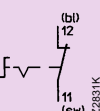
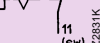
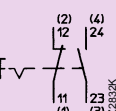
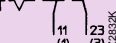
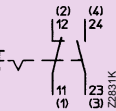
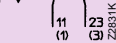

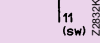
- Explosion protection to
 - CENELEC
 - IEC
 - NEC
- Can be used in Zone 1 and Zone 2
- 7 different actuators
 - Pushbutton
 - Mushroom pushbutton
 - Mushroom stay-put button
 - Mushroom stay-put key-release
 - Key-operated button
 - Key-operated switch
 - Selector switch
- Contact elements
 - 8003
 - 2-pole, 1 NC + 1 NO
 - The opening contacts are spring-loaded
 - 1-pole, 1 NC, spring-loaded
 - 8083
 - 2 or 3 changeover contacts
 - not spring-loaded
- With connection leads or terminals
- Simple fitting

STAHL

Fitting is extremely simple. The patented fixing mechanism makes insertion into switch panels with standard 30,5 mm diameter holes simple and fast.

Zone 1 and Zone 2

Selection table


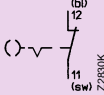
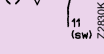
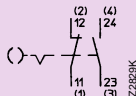
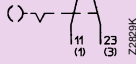

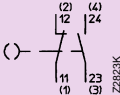
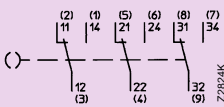
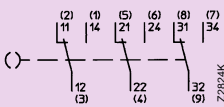

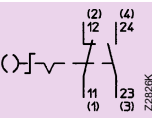
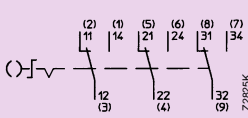
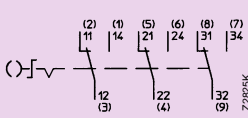

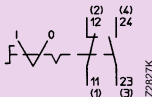
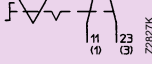
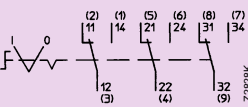
Version	Description	Ordering code	Weight [kg]		
Pushbutton  D_4283	 with flexible lead	3 m	8003/21 – 3 – 1	0,55	
		6 m	8003/21 – 6 – 1	0,95	
	 with terminals			8003/41 – 1	0,16
 with flexible lead	6 m	8083/21 – 111 – 6	1,23		
Mushroom button  D_4284	 with flexible lead	3 m	8003/24.SW – 3 – 1	0,56	
		6 m	8003/24.SW – 6 – 1	0,96	
	 with terminals			8003/44.SW – 1	0,17
 with terminals	6 m	8083/24.SW – 111 – 6	1,23		
Mushroom stay-put button  D_4285	 with flexible lead	3 m	8003/20 – 3 – 2	0,56	
		6 m	8003/20 – 6 – 2	0,96	
	 with terminals			8003/40 – 2	0,17
	 with flexible lead	3 m	8003/20 – 3 – 1	0,56	
		6 m	8003/20 – 6 – 1	0,96	
	 with terminals			8003/40 – 1	0,17
Ø 55 mm, red	 with flexible lead	3 m	8003/20.55 – 3 – 2	0,57	
		6 m	8003/20.55 – 6 – 2	0,97	
	 with terminals			8003/40.55 – 2	0,18
 with flexible lead	3 m	8003/20.55 – 3 – 1	0,57		
	6 m	8003/20.55 – 6 – 1	0,97		
 with terminals			8003/40.55 – 1	0,18	

Note: a) yellow plastic washer for EM-STOP function is enclosed
 b) labels must be ordered separately, see accessories

Continuation →



Selection table (Continuation)

Version	Description	Ordering code	Weight [kg]		
Mushroom stay-put button with key lock  D...4287	Ø 38 mm, red  with flexible lead	3 m	8003/29 - 3 - 2	0,63	
		6 m	8003/29 - 6 - 2	1,03	
	 with terminals	8003/49 - 2 0,24			
		<hr/>			
	 with flexible lead	3 m	8003/29 - 3 - 1	0,63	
		6 m	8003/29 - 6 - 1	1,03	
 with terminals	8003/49 - 1 0,24				
	<hr/>				
Key-operated button  D...4288	 with flexible lead	3 m	8003/27 - 3 - 1	0,62	
		6 m	8003/27 - 6 - 1	1,02	
	 with terminals	8003/47 - 1 0,24			
<hr/>					
 with flexible lead	6 m	8083/27 - 111 - 6	1,29		
	<hr/>				
Key-operated switch  D...4288	 with flexible lead	3 m			
		key	0 + I	8003/28 - 3 - 1, 0 + I	0,62
		removable in:	0	8003/28 - 3 - 1, 0	0,62
	with flexible lead	6 m			
		key	0 + I	8003/28 - 6 - 1, 0 + I	1,02
		removable in:	0	8003/28 - 6 - 1, 0	1,02
	with flexible lead	6 m			
		key	0 + I	8003/28 - 6 - 1, I	1,02
		removable in:	0	8003/28 - 6 - 1, 0	1,02
	 with flexible lead	6 m			
		key	0 + I	8003/48 - 1, 0 + I	0,21
		removable in:	0	8003/48 - 1, 0	0,21
with flexible lead	6 m				
	key	0 + I	8003/48 - 1, I	0,21	
	removable in:	0	8003/48 - 1, 0	0,21	
 with flexible lead	6 m				
	key	0 + I	8083/28 - 111 - 6, 0 + I	1,29	
	removable in:	0	8083/28 - 111 - 6, 0	1,29	
with flexible lead	6 m				
	key	0 + I	8083/28 - 111 - 6, I	1,29	
	removable in:	0	8083/28 - 111 - 6, 0	1,29	
Selector switch  D...4289	 with flexible lead	3 m	8003/25 - 3 - 1	0,55	
		6 m	8003/25 - 6 - 1	0,95	
	 with terminals	8003/45 - 1 0,17			
		<hr/>			
	 with flexible lead	6 m	8083/25 - 111 - 6	1,23	
		<hr/>			

Note: a) yellow plastic washer for EM-STOP function is enclosed
 b) labels must be ordered separately, see accessories



Technical data		8003	8083
Contact block			
Explosion protection with flexible lead with terminals		EEx d IIC T6 EEx de IIC T6	EEx d IIC T6 -
Test certificate with flexible lead with terminals		PTB Nr. Ex-82/1074 PTB Nr. Ex-82/1075 U Other certificates: SUVA, SEV (CH), BKI (H), CSA (C), SZS (YU), TÜV Vienna (A), FTZU (CZ), FM (USA)	PTB Nr. Ex-85/1081 - Other certificates: SUVA, SEV (CH), BKI (H), CSA (C), SZS (YU), TÜV Vienna (A), FTZU (CZ), FM (USA)
Material Enclosure/Actuators Key actuators		Polyester/Polyamide Stainless steel	Polyester/Polyamide Stainless steel
Contacts		2-pole, 1 NC + 1 NO opening break contact for EM-STOP 1-pole, 1 NC opening break contact for EM-STOP (SUVA Version)	3 changeover, not suitable for EM-STOP function
Rated voltage		500 V, AC; 250 V, DC	250 V, AC/DC
Rated current		10 A, AC 1	6 A, AC 1
Switching capacity		AC 11, $\cos \varphi = 0,7$ 6 A 120 V ~ 5 A 230 V ~ (220/240 V ~) 3,5 A 400 V ~ (380/415 V ~) 2,5 A 500 V ~ DC 1, L/R = 1 ms 6 A 60 V - 6/1 A 110 220 V - 0,6 A 250 V - DC 11, L/R = 15 ms 50 ms 100 ms U (V) 6 A 6 A 4 A 60 V - 4 A 1,6 A 1 A 110 V - 1 A 0,6 A 8,4 A 220 V - 0,6 A 0,4 A 0,4 A 250 V -	AC 1 6 A 125 V ~ 5 A 250 V ~ AC 11, $\cos \varphi = 0,7$ 5/4 A 110/125 V ~ 2,5/2 A 220/250 V ~ DC 1, L/R = 0 ms 0,6 A 125 V - 0,4 A 250 V - DC 11, L/R = 5 ms 5 A 24 V - 1 A 48 V -
Life mechanical electrical		10 ⁶ operations 10 ⁶ operations	10 ⁶ operations 10 ⁶ operations
Degree of protection		IP 65 IP 20 terminals	IP 65 -
Ambient temperature		- 20° C ... + 40° C	- 20° C ... + 40° C
Connections Flexible lead Terminals		2/4 x 1,5 mm ² (A05V V-F) with 3 or 6 m length Ø 6,0 ... 7,5 mm (2 x 1,5 mm ²) Ø 8,5 ... 11,0 mm (4 x 1,5 mm ²) 1,5 mm ² flexible	6/9 x 0,75 mm ² (A05V V-F) with 3 or 6 m length Ø 8,0 ... 9,0 mm (6 x 0,75 mm ²) Ø 10,5 ... 11,5 mm (9 x 0,75 mm ²) -
Dimensions		see page 9/22	see page 9/22

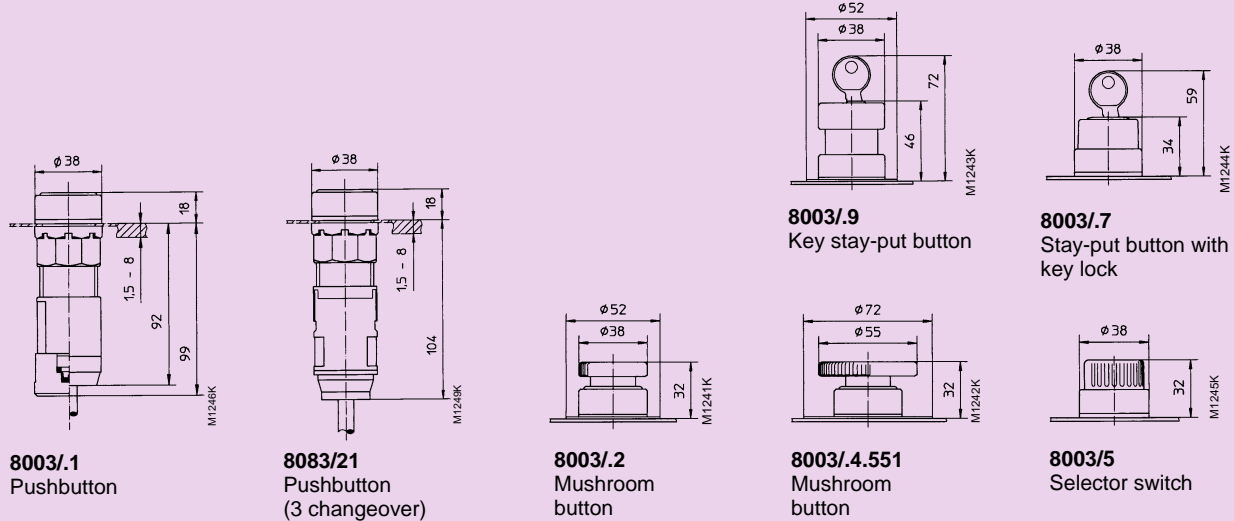
Continuation →

Technical data (Continuation)

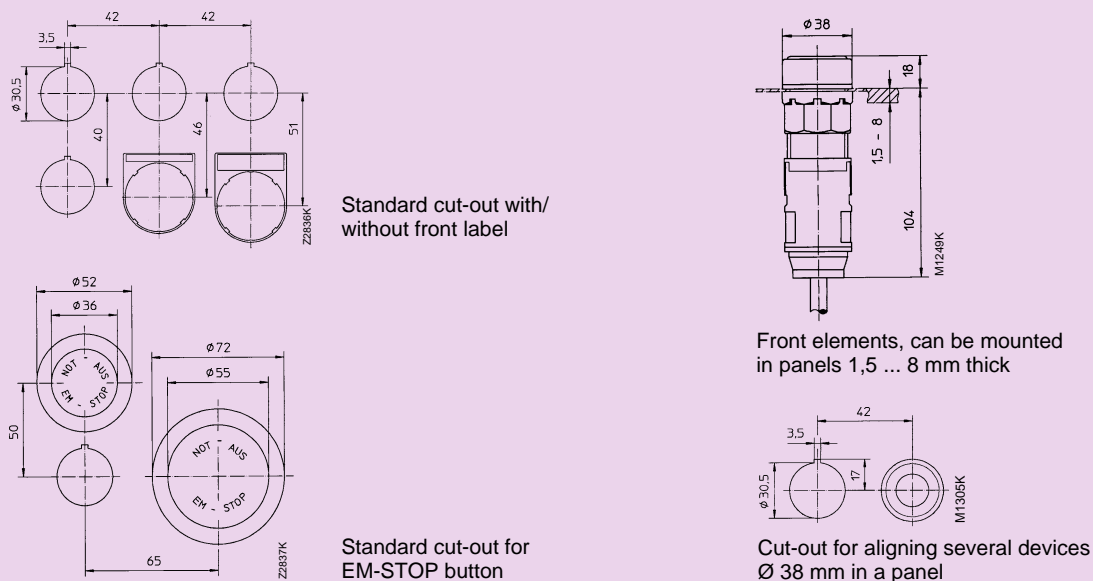
Actuators


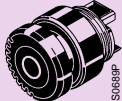
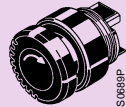
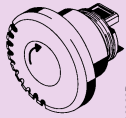
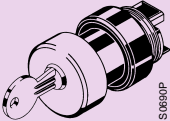
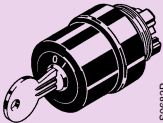
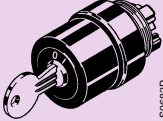



Pushbutton	Spring-return actuator, interchangeable symbol discs
Mushroom button	Spring-return actuator, only non-latching black, Ø 38 mm
Mushroom stay-put button	Self-latching when pushed, twist-to-release, Ø 38 mm or Ø 55 mm, red, with yellow background disc, for EMERGENCY-STOP function
Mushroom stay-put button with key lock	Self-latching when pushed, released only with key, key removable in both positions, Ø 38 mm, red, with yellow background disc, for EMERGENCY-STOP function
Key-operated button	Spring-return actuator, operable only with key inserted, key only removable in normal position
Key-operated switch	Two-position switch-function, choice of key removable in both or only one position
Selector switch	Rotary knob with 2 rest positions, interchangeable symbol discs

Dimensions, all dimensions in mm – subject to alteration



Note for mounting, all dimensions in mm – subject to alteration



Accessories and spare parts			
Designation	Description	Ordering code	Weight [kg]
Actuators for Pushbutton	 S 0681P	86 020 07 03 0	0,015
Mushroom button	 S 0683P Ø 38 mm, black	86 020 18 03 0	0,02
Mushroom stay-put button	 S 0689P Ø 38 mm, red	86 020 04 03 0	0,027
	 S 0686P Ø 55 mm, red	86 020 14 03 0	0,035
Mushroom stay-put button with key lock	 S 0690P Ø 38 mm, red	86 020 36 03 0	0,1
Key-operated button	 S 0682P	86 020 02 03 0	0,095
Key-operated switch	 S 0682P Key removable: 0 + I 0 I	86 020 09 03 0 86 020 10 03 0 86 020 35 03 0	0,09
Selector switch	 S 0688P	86 020 03 03 0	0,024
Spare keys	 S 5019P	for all key op. buttons and switches	
		Standard	374 602 0 0,014
	Special	374 601 0 0,014	
Blind plate	 S 0693P1	for closing off unused holes in cover Ø 30,5 mm	88 000 07 33 7 0,015


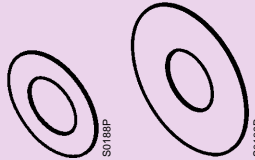
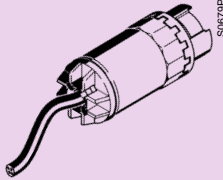
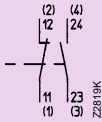
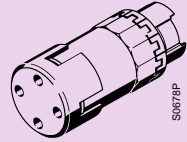
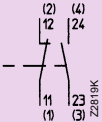
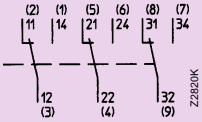
Continuation →

Accessories and spare parts (Continuation)

Symbol discs	Colour	Symbol/Text	Ordering code	Colour	Symbol/Text	Ordering code
Symbol discs for pushbuttons and selector switches 	black	SLOW	520 369 0	black	STOP	520 348 0
	black	FAST	520 368 0	red	STOP	520 0587 0
	black	LOWER	520 367 0	black	II	520 586 0
	black	LIFT	520 366 0	green	II	520 584 0
	black	RUN	520 307 0	black	I	520 585 0
	black	SLOW	520 306 0	white	I	520 347 0
	black	FAST	520 305 0	green	I	520 583 0
	black	DOWN	520 304 0	red	0	520 582 0
	black	DOWN	520 303 0	black	0	520 346 0
	black	UP	520 302 0	black	RIGHT	520 358 0
	black	UP	520 301 0	black	LEFT	520 359 0
	black	CLOSE	520 599 0	red		520 328 0
	black	CLOSE	520 598 0	black	Auto Hand	520 320 0
	black	OPEN	520 597 0	black	ON OFF	520 319 0
	black	AUTO	520 596 0	black	I	520 318 0
	black	HAND	520 595 0	black	\ 0	520 317 0
	black	RIGHT	520 594 0	black		520 316 0
	black	LEFT	520 593 0	black	↑	520 315 0
	black	ON	520 592 0	blue	Plain disc (for lettering)	520 314 0
	green	ON	520 365 0	yellow	Plain disc (for lettering)	520 313 0
	black	ON	520 591 0	red	Plain disc (for lettering)	520 312 0
	white	ON	520 351 0	green	Plain disc (for lettering)	520 311 0
	red	OFF	520 590 0	white	Plain disc (for lettering)	520 310 0
	black	OFF	520 349 0	black	Plain disc (for lettering)	520 309 0
	red	OFF	520 589 0	blue	RESET	520 308 0
	black	START	520 357 0	black		520 364 0
	white	START	520 350 0	black		520 363 0
	green	START	520 588 0			

Continuation →

Accessories and spare parts (Continuation)

Designation	Description	Ordering code	Weight [kg]
Additional symbol discs	 <p>For actuators to fit standard Ø 30,5 mm holes:</p> <p>Label mount, size 1, without symbol disc. Specify symbol disc text</p> <p>Label mount, size 2, without symbol disc. Specify symbol disc text</p> <p>Additional labels: plain Text option: HAND – 0 – AUTO OFF – – ON 0 – I I – II I – 0 – II 0 – I – II 0 – Operation – I 0 – – I 0 – I</p>	<p>86 029 04 80 0</p> <p>86 028 07 80 0</p>	
Background disc, yellow	 <p>with EM-STOP function for button</p> <p>Ø 38 mm</p> <p>Ø 55 mm</p>	<p>80 309 01 85 0</p> <p>80 309 78 85 0</p>	<p>–</p> <p>–</p>
Contact block 8003/8083	 <p>with flexible lead</p> <p>3 m</p> <p>6 m</p>	<p>80 030 06 60 0</p> <p>80 030 07 60 0</p>	<p>0,34</p> <p>0,85</p>
	 <p>with terminals</p>	80 030 09 60 0	0,12
	 <p>with flexible lead</p> <p>3 m</p> <p>6 m</p>	<p>80 030 01 60 0</p> <p>80 030 02 60 0</p>	<p>0,34</p> <p>0,52</p>
	 <p>with terminals</p>	80 030 04 60 0	0,12
	 <p>with flexible lead</p> <p>6 m</p>	80 830 09 02 0	1,20

