

## Control Unit System Series ConSig 8040 Customized Units

<b>Assembly 8040</b>		Data R. STAHL			Data customer	
		Contact name	Office	Date of receipt	Company	
		Ref. no.	Delivery week	Quantity	Date of order	Order no.
SGLP SGPF	SGM				Delivery time	Item

<b>General information</b>						
Version	<input type="checkbox"/> as single device	Position	side down	Plant indication label	<input type="checkbox"/> without	PE-terminal
1)	<input type="checkbox"/> as combination consisting of		<input type="checkbox"/> A		<input type="checkbox"/> side D	
2)	<input type="checkbox"/> enclosures		<input type="checkbox"/> B	specify text	<input type="checkbox"/> side C	
...	<input type="checkbox"/> identification		<input type="checkbox"/> C			
n)			<input type="checkbox"/> D (Standard)			1 piece 2 pieces

**Enclosures and components**

specify enclosure

Components specify code or text: number of assembly and additional texts (see page 9/56)

Enclosure: specify version						Actuator; bezel		Component		Add. label
8040/11	8040/12		8040/13			E01	E02	E03	E04	E05
						Assembly	Add. text	Assembly	Add. text	Size of label, text
Pos. 1	Pos. 4	Pos. 1	Pos. 6	Pos. 4	Pos. 1					
		Pos. 2	Pos. 7	Pos. 5	Pos. 2					
					Pos. 3					
8040/21		8040/22		8040/23						

**Cable glands and stopping plugs**  in plastic type: 8161/8290  in metal: specify text  
Please specify in table below: gland = V, stopping plug = S or Drilling = B

Cable entry Size	Direct enclosure		Plastic flange		Brass flange		Metal plate	
	Side D	Side C	Side D	Side C	Side D	Side C	Side D	Side C
1 x Pg 16*								
1 x Pg 21								
1 x M 20 x 1,5								
1 x M 25 x 1,5								
2 x Pg 16								
others specify text								

\* Standard: 1 x Pg 16 side D; side C closed



**Specification and layout**

The ConSig 8040 control and measurement range offers a variety of combinations and assemblies, of which, with our standard range, we can show you only a small selection. By using the drawings and the data on the following pages, you can design, specify and order your own ConSig 8040 unit. The example below should make design easier. For enquiry or order purposes you can specify your ConSig 8040 control unit as text or as drawing. You may find the drawing and the mounting details on the next page useful.

Example:

- 1 ConSig 8014/13 equipped with:
  - 1 Illuminated pushbutton 8082/8010, spring-return, Contacts 1 NC + 1 NO, Indicator lamp, red, 230 V; location: top; Label plate with text: RESET
  - 1 Indicator lamp, white, 230 V; location: centre
  - 1 Twin pushbutton; contacts 1 NC + 1 NO; Labels: 0/black; I/white; location: below

Enclosure identification

- 1 Label plate; text: 12M372

Cable entries:

Side facing down:

- 1 Plastic flange with:
  - 1 Pg 16 cable gland and 1 Pg16
  - 1 plug

Top:

- 1 Pg 16 plug mounted directly in enclosure wall

<b>Assembly 8040</b>		Data R. STAHL		Data customer		Order no.	
①		Contact name <i>Haug</i>	Office <i>Kün</i>	Date of receipt <i>11.11.98</i>	Company <i>Montoplan</i>	<i>18-89</i>	
SGLP	SGPF	Ref. no.	Delivery week	Quantity	Date of order	Delivery time	Item
	SGM	<i>5722</i>	<i>KW 51</i>		<i>02.11.98</i>	<i>KW 51</i>	<i>1</i>
<b>General information</b>							
Version	<input type="checkbox"/> as single device (1.1)	Position	side down	Plant identification label	<input type="checkbox"/> without	PE-terminal	
1.1	<input type="checkbox"/> as combination consisting of	<input type="checkbox"/> A (1.2)	<input type="checkbox"/> A	<input type="checkbox"/> side D	<input type="checkbox"/> side D		
2.1	<input type="checkbox"/> enclosures	<input type="checkbox"/> B	<input type="checkbox"/> B	<input type="checkbox"/> side C	<input type="checkbox"/> side C		
2.2	<input type="checkbox"/> identification	<input type="checkbox"/> C	<input checked="" type="checkbox"/> D (Standard)	specify text (1.3)	<i>12M372</i>		
3.1		<input type="checkbox"/> D					1 piece 2 pieces
<b>Enclosures and components</b>							
②		specify enclosure		Components specify code or text: number of assembly and additional texts (see page 9/56)			
Enclosure: specify version		Actuator; bezel		Component		Add. label	
8040/11 8040/12 8040/13		E01 Assembly (2.2) E02 Add. text		E03 Assembly E04 Add. text		E05 Size of label, text	
Pos. 1 Pos. 4 Pos. 1 Pos. 6 Pos. 4 Pos. 1		735 <i>rt</i>		735 <i>rt</i>		<i>1/Reset</i>	
Pos. 2 Pos. 7 Pos. 5 Pos. 2		054 <i>ws</i>		064 <i>230/ws</i>			
Pos. 3		023 <i>0/sw/1/ws</i>		060			
8040/21 8040/22 8040/23							
<b>Cable glands and stopping plugs</b> (3) <input checked="" type="checkbox"/> in plastic type: 8161/8290 (3.1) <input type="checkbox"/> in metal: specify text							
Please specify in table below: gland = V, stopping plug = S or Drilling = B							
Cable entry	Direct enclosure	Plastic flange	Plastic flange	Brass flange	Brass flange	Metal plate	Metal plate
Size	Side D (3.2)	Side C	Side D	Side C	Side D	Side C	Side D
1 x Pg 16*							
1 x Pg 21							
1 x M 20 x 1,5							
1 x M 25 x 1,5							
2 x Pg 16			V + S				
others							
specify text							

**Clarification of Specification sheet:**

The data for the sample unit has been transferred to the sheet as follows:

- 1. General information on unit
  - 1.1 A single unit is required
  - 1.2 Fitting position: Side D down (label legibility)
  - 1.3 Label text: 12M372; can be attached to cover
- 2. Enclosure and components
  - 2.1 Enclosure design: size 3; with 3 locations
  - 2.2 Specify devices:
    - Location 1
      - E01 735 Illuminated pushbutton Assembly actuator, spring-return (see page 9/56)
      - E02 rt Actuator colour: red (see page 9/56)
      - E03 737 Assemble: Illuminated pushbutton element; Contacts 1 break + 1 make (see page 9/56)
      - E03 rt Colour indicator lamp (see page 9/56)
      - E05 1/RESET Backing label size 1 with text: RESET
    - Location 2
      - E01 054 Assembly bezel (see page 9/56)
      - E02 ws Colour bezel: white (see page 9/56)
      - E03 064 Diode indicating lamp (see page 9/56)
      - E04 230/ws Indicator lamp: Voltage: 230 V; Colour: white (see page 9/56)
    - Location 3
      - E01 023 Assembly: actuator (see page 9/54)
      - E02 0/sw/l/ws Label 1: symbol: 0; colour: black; Label 2: symbol: I; colour: white (see page 9/55)
      - E03 060 Assembly contact element: 1 NC + 1 NO (see page 9/55)
- 3. Cable entries
  - 3.1 Plastic glands are used
  - 3.2 Insertion of cable entries
    - V 1 Pg16 gland; side C; fitted directly in housing
    - V+S1 Pg16 gland and 1 Pg16 plug; side D; fitted in flange













## Control Unit System Series ConSig 8040 Customized Units

### Selection and ordering data for 8040 layout – control devices

8040/ \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ Position 1, 4 or 6  
 \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ Position 2, 5 or 7  
 \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ Position 3

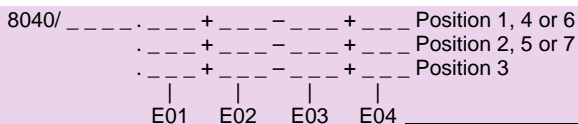
E01   E02   E03   E04

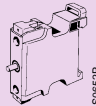
Designation	Description	Code	Notes (Z = add. text, M = mounting position)	Code position)
<b>Control buttons, Actuators</b>				
		E01		E02
Pushbutton 	Standard with additional gasket	001 002	Z Specify labels (see table page 9/55) Symbol _____ Colour _____ M all, except pos. 4	_____/_____  _____   _____
Twin pushbutton 	2 pushbuttons in 1 actuator	023	Z Specify label (see table page 9/55) Symbol _____ Colour _____ M all, except pos. 4	_____/_____/_____/_____  _____ _____ _____ _____   _____ _____ _____ _____
Selector switch 	2 notched positions 60°	005	Z Specify labels (see table page 9/55) Symbol _____ Colour _____ M all, except pos. 4	_____/_____  _____   _____
Mushroom button 	38 mm   black	003	Z Specify label (see table page 9/55) Symbol _____ Colour _____ M all, except pos. 4	_____/_____  _____   _____
Mushroom stay put  	twist to release   38 mm   red red for EM-STOP function   38 mm   black 55 mm   rot	010 012 015	M all, except pos. 4 Z Specify label (see table page 9/55) Symbol _____ Colour _____ M all, except pos. 4 M only possible in enclosure Pos 8040/11 1   8040/13 5, 6, 7	_____/_____  _____   _____  _____/_____  _____   _____
Mushroom stay put with key release 	Red, release only with key, usable for EM-STOP, standard and special key available (Standard KMS 1)	009	M all, except pos. 4	KMS.. <sup>1)</sup>
Key-operated button 	Operable only with key, standard or special key (Standard KMS 1)	007	M all, except pos. 4	KMS.. <sup>1)</sup>
Key-operated switch 	Operable only with key, standard or special key possible (Standard KMS 1) Key possible in: 0 and I (standard) 0 or 1 (special) 3 switching positions	008 308	Z Special: key withdrawable in pos. 0 2 I 3 I + 0 1 M all, except pos. 4 Z Special: key withdrawable in pos. 0 + I + II M all, except pos. 4	_____/KMS.. <sup>1)</sup>  _____   _____  _____/KMS.. <sup>1)</sup>  _____   _____
Rotary actuator 	for 2 or 3 switch positions	726	2 Positions 0 – I Z Latched r Spring-return t 3 Positions I – 0 – II Z Latched left r Spring-return left t Latched right r Spring-return. right t M all, except pos. 4	2 –  _____   _____  3 –  _____   _____   _____   _____

**Note:** Additional labels see control switches 8008 page 9/58  
<sup>1)</sup> Special locking KMS.. on request

Continuation →


**Selection and ordering data** for 8040 layout – control devices (Continuation)



Designation	Description	Code	Notes (Z = Add. text, M = mounting position)	Code
<b>Control buttons</b>				E03
<b>Contact elements 8082/1</b>				E04
	Contacts	1 NO	M all, except pos. 4	022
		1 NC		021
		1 NO + 1 NC		060
		2 NC		061
		2 NO		062
		3 NC		760
		3 NO		761
		2 NC + 1 NO		762
		1 NC + 2 NO		763

**Examples:** Pushbutton actuator, label symbol 0, colour red; contacts 2 NC

E01 001   E02 0/rt   E03 061

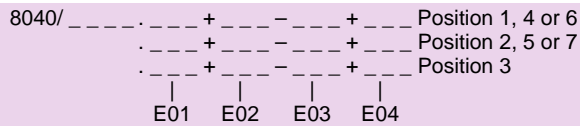
Designation	Description		Code	Description		Code
	Designation	Colour	E02	Designation	Colour	E02
Labels for pushbuttons and selector switches 	RUN	black	RUN/sw	START	white	START/ws
	SLOW	black	SLOW/sw	RESET	blue	RESET/bl
	SLOW	black	SLOW/sw	STOP	red	STOP/rt
	FAST	black	FAST/sw	STOP	black	STOP/sw
	FAST	black	FAST/sw	II	black	II/sw
	DOWN	black	DOWN/sw	II	green	II/gn
	Up	black	Up/sw	I	black	I/sw
	DOWN	black	DOWN	I	white	I/ws
	UP	black	UP/sw	I	green	I/gn
	LOWER	black	LOWER/sw	0	red	0/rt
	RAISE	black	RAISE/sw	0	black	0/sw
	CLOSE	black	CLOSE/sw	turn-arrow ↷	red	P01/rt
	CLOSE	black	CLOSE/sw	AUTO HAND	black	AUTO HAND/sw
	OPEN	black	OPEN/sw	ON OFF	black	ON OFF/sw
	AUTO	black	AUTO/sw	II 0	black	II 0/sw
	HAND	black	HAND/sw	I 0	black	I 0/sw
	RIGHT	black	RIGHT/sw	arrow ↘	black	P02/sw
	LEFT	black	LEFT/sw	arrow ↑	black	P03/sw
	ON	black	ON/sw	–	blue	bl
	ON	black	ON/sw	–	yellow	ge
	ON	white	ON/ws	–	red	rt
	OFF	red	OFF/rt	–	green	gn
	OFF	red	OFF/rt	–	white	ws
	OFF	black	OFF/sw	–	black	sw
	START	green	START/gn			




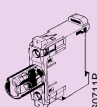

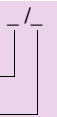
Continuation →



## Control Unit System Series ConSig 8040 Customized Units

### Selection and ordering data for 8040 layout – control devices (Continuation)



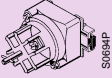



Designation	Description	Code	Notes (Z = add. text, M = mounting position)	Code	
<b>Illuminated pushbutton</b>		E01		E02	
Illuminated pushbutton actuator 	in spring-return;	735	Z specify colour of indicator white red green yellow blue M all, except pos. 4	ws rt gn ge bl	
	colours: white, red, yellow, blue and green				
<b>Illuminated contact block</b>		E03		E04	
	Illuminated contact block 1 NC + 1 NO	737	Z specify colour of indicator white red green yellow blue	ws rt gn ge bl	
	Illuminated contact block 2 NC	738			
	Illuminated contact block 2 NO	739			
<b>Example:</b> Illuminated pushbutton, spring-return; 1NO + 1NC; colour indicator: green		E01 735	E02 gn	E03 737	E04 gn
<b>Diode indicating lamp</b>		E01		E02	
Bezel 	colours: green, red, yellow, blue and white	054	M all, except pos. 4 Z Colour green red yellow blue white	gn rt ge bl ws	
Indicator lamp 	in different colours for voltage range: 20 V – 15 % ...254 V + 6 %, UC, 0 ... 60 Hz	E03 064	Z Colour red yellow green white blue	rt ge gn ws bl	
	colours: red, yellow, green, white, blue				
<b>Example:</b> Diode-indicating lamp; colour: green		E01 054	E02 gn	E03 064	E04 gn
<b>Note:</b> Additional labels see control switches 8008, page 9/74					
<b>Potentiometer</b>		E01		E02	
Rotary actuator	black, with scale	092	M all, except pos. 4  Z specify scale 0 ... 6           006 0 ... 10       010 0 ... 100      100		
<b>8208</b>	Potentiometer, insertion	E03	Z specify measuring range  1 W 2 W specify resistance values see page 9/105	E04	
		096			
<b>Example:</b> potentiometer, adjustment range 100 ohms, 2 W; actuator with scale 0 ... 10		E01 092	E02 010	E03 096	E04 2 W/100 Ω

Continuation →



Selection and ordering data for 8040 layout – control devices (Continuation)



Designation	Description	Code	Notes: (Z = add. text, M = mounting position)	Code
<b>Control switch</b>		E03	Additional text	E04
<b>8008</b> Control switch element 	2-poles	160	Z specify switching arrangement  Examples see page 9/97	
<b>Rotary actuator, large</b> 	black, standard: not lockable, special: lockable (triple) in 1 position various labels available, labels not interchangeable	E01	M possible in enclosure Pos. 8040/11 1 8040/13 5, 6, 7  Z lockable none 0 1 time 1 3 times 3  Z specify lockable position  Z specify label (s. below)	E02
Symbol discs for assembly 731		black/yellow 0-OFF-I-ON  black/white 0-OFF-□-I-ON □-□-□-□ 0-Operation-Auto Hand-0-Auto I-0-I-0 0-I I-II I-0-II 0-I-II 0-Operation-I 0/OFF-I/ON		
<b>Rotary actuator, small</b>  	black, not lockable	732	M all, except pos. 4  Z specify additional label size and text	
	black, lockable in one position	734	M possible in enclosure Pos. 8040/11 1 8040/12 2 8040/13 3, 5, 6, 7  Z specify additional label size and text see page 9/58  Z specify padlocking position; specify text	

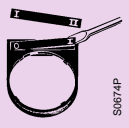

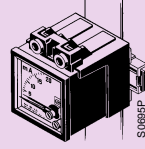

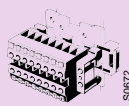
**Example:** Control switch 8008, 2-pole, switching arrangement 040 (see page 9/97) E01 E02 E03 E04  
 Rotary actuator: large, designation: HAND-0-AUTO; lockable in AUTO 731 HAND-0-AUTO/AUTO 160 040

Continuation →


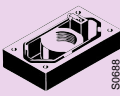
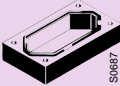
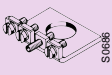

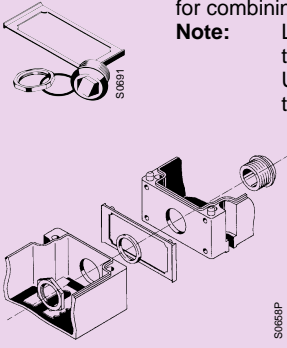
## Control Unit System Series ConSig 8040 Customized Units

### Selection and ordering data for 8040 layout – control devices (Continuation)

8040/ \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ Position 1, 4 or 6  
 \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ Position 2, 5 or 7  
 \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ Position 3  
 E01 E02 E03 E04

Designation	Description	Code	Notes: (Z = add. text, M = mounting position)	Code	
Control switch (Continuation)		E03		E04	
Additional label 	Label for: rotary actuators, small, assemblies 732 und 734 control buttons, potentiometers and indicating lamps label mount size 1; label: black; symbol: white		Z HAND 0 AUTO OFF <input type="checkbox"/> ON 0     I II I 0 II 0   II 0 Operation   0 <input type="checkbox"/>   0   plain		
Ammeter		E01		E02	
Bezel 		740	M only possible in pos. 4		
8405 Ammeter 	Direct measuring or converter	E03 086	Z specify measuring range  Direct 0-0,02/0,04 A 0,02/0,04 A 0-0,06/1,2 A 0,06/1,2 A 0-1/2 A 1/2 A 0-4/8 A 4/8 A 0-10/20 A 10/20 A 0-15/30 A 15/30 A  Converter Sec. 1/2 A 1/2 A* Sec. 1/5 A 1/5 A* Sec. 5/10 A 5/10 A* Sec. 5/25 A 5/25 A*  Z * specify measuring scale see page 9/101  Z Version Direct D Converter W	/_/_	
<b>Example:</b> Ammeter, direct measuring Range: 0 – 2,5 A, overload: 2 times;		E01 740	E02 –	E03 086	E04 2,5/5 A/D
Blind plate 	black, for closing cover holes	E01 733	M all, except pos. 4		
Terminal block		E03			
	Terminals 8181, 8 terminals, marking 1 ... 8	212	M all, except pos. 4		



Accessories and spare parts				
Designation	Illustration	Description	Ordering code	Weight [kg]
Plant identifying lable		plain; for fitting to enclosures 8040; plastic, with paper label	<b>80 400 01 85 0</b>	0,005
Flange Brass		Fitted in factory only on sides C and D		
		Hole sizes as specified (up to M 20 x 1,5 two threaded holes)	<b>80 408 06 49 0</b>	0,280
		Tapped hole 2 x M 20 x 1,5	<b>80 408 03 49 0</b>	0,280
		Tapped hole 1 x M 20 x 1,5	<b>80 408 02 49 0</b>	0,280
Plastic		Fitted in factory only on sides C and D are possible dark grey		
		Hole sizes as specified	<b>80 408 05 49 0</b>	0,90
		Tapped hole 2 x M 20 x 1,5	<b>80 408 04 49 0</b>	0,90
		Undrilled	<b>80 408 01 49 0</b>	0,90
Brass plate		To earth metal cable glands, sides C and D		
		Tapped hole M 20 x 1,5 M 25 x 1,5	<b>80 400 07 55 0</b> <b>80 400 08 55 0</b>	0,040 0,040
Terminal block 8181		8 terminals for snap-on mounting in 8040; marking 1 ... 8 (assembly 212)	<b>88 00 02 12 7</b>	0,085
Combination adaptor set		for combining 2 enclosures <b>Note:</b> Lower enclosure requires tapped hole Pg 16 in side C (top) Upper enclosure requires tapped hole Pg 16 in side D (below)	<b>80 408 04 29 0</b>	0,013

