



**The  
Individual  
Standard**

# SIBALCO Smartline 1 Control devices with one actuator Catalogue

Design and functionality. In Swiss quality.

## Sibalco Smartline 1 Overview

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## Sibalco Smartline 1 Introduction and explanations

7 steps to the product you're looking for:

Example: Command - Smartline 1 with selector switch, type 30FS 2 x 60°, latching, in a black housing, not illuminable, and a switching element with two normally closed contacts.

1. Select the type and design of actuator (selector RAFIX 30FS)

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# Sibalco Smartline 1

## Introduction and explanations

2. Choice of housing colour (black)
3. Select the type of actuator (2 x 60° latching)
4. Illumination with/without (without)
5. Select the number of pins (4 pins)
6. Select the wiring (standard wiring without illumination)
7. Select the switching element (2 x normally closed contact)

CAS	Series		Type	Actuator		Illumination	Connector		Switching element	
	Colour			Design	Pins		Pin assignment			
CAS	B	black	13	02	Selector	0	1	4	1	1 x normally opened (1.20.126.202/9000)
		colour-less							2	1 x normally closed (1.20.126.201/9000)
	C	colour-less	13	02	Selector	1	0	4	0	2 x normally opened (1.20.126.205/9000)
									3	2 x normally closed (1.20.126.204/9000)
	C	colour-less	13	02	Selector	3	with	8	1	1 x normally closed, 1 x normally opened (1.20.126.203/9000)
									2	2 x normally opened (1.20.126.205/9000)
	C	colour-less	13	02	Selector	3	without	4	0	2 x normally closed (1.20.126.204/9000)
									3	1 x normally closed, 1 x normally opened (1.20.126.203/9000)

Your item number:

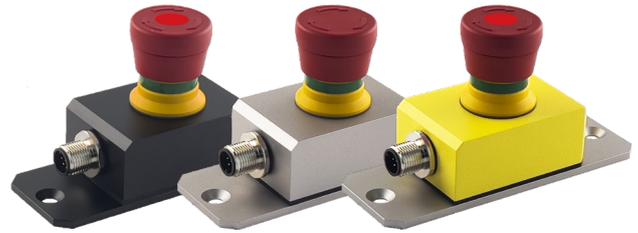
CAS - B 13 - 02 1 0 4 0 3

The item number for the selected example is: **CAS-B13-0210403**

### Achtung:

Not all theoretical possibilities are available. The horizontal lines drawn must not be crossed. For example, item CAS-B13-0210803 is not available.

## Sibalco Smartline 1 Emergency stop RAFIX 22FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

CAS	Series		Type	Actuator Design	Illumination	Connector		Switching element													
	Colour					Pins	Pin assignment														
CAS	B	black	12	Emergency stop	00	0	Emergency stop, mushroom-head, red illuminable (1.30.273.011/2300)		1 with	8	1		6	2NC+1NO emergency stop (1.20.146.434/9000)							
	C	colourless																			
	Y	yellow																			
	1	Emergency stop compact, illuminable (1.30.273.311/2300)														0 without	4	0		5	2NC emergency stop (1.20.126.604/9000)
																1 with	8	1			
																2	Emergency stop, mushroom-head (1.30.273.511/0300)	0 without	4		

Your item number:



Do you have any special requests for your Smartline 1? You will find all the options available starting on page 16.  
 Do you have any questions about the composition of the item number? - The instructions on page 3 may help you.

# Sibalco Smartline 1

## Push button RAFIX 22FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

CAS	Series		12	01	Type	Actuator Design	Illumination	Connector		Switching element
	Colour							Pins	Pin assignment	
CAS	B	back	12	01	Push button	0 Push button FLEXLAB (1.30.270.921/2200)	0 without	4	0	2 x normally open (1.20.126.205/9000)
	C	colourless							3	2 x normally closed (1.20.126.204/9000)
						1 Push button black opaque (1.30.270.021/0100)	1 with	4	4	1 x normally closed, 1 x normally open (1.20.126.203/9000)
	2 Push button white translucent (1.30.270.021/2200)	1							0	1 x normally open (1.20.126.202/9000)
						3 Push button red translucent (1.30.270.021/2300)	7	8	7	1 x normally open Micon short stroke (1.14.005.111/0000)
	4 Push button yellow translucent (1.30.270.021/2400)	1							8	1
						5 Push button green translucent (1.30.270.021/2500)	3	8		2
	6 Push button blue translucent (1.30.270.021/2600)	4							8	3
										4

Your item number:



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# Sibalco Smartline 1 Selector RAFIX 22FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

Series				Type		Actuator		Illumination	Connector		Switching element				
CAS		Colour				Design	Pins		Pin assignment						
CAS	-	B black	12	-	02	Selector	0	1 x 90° V, latching (1.30.272.202/2200)	1	with	4	1		0	1 x normally open (1.20.126.202/9000)
		2					1 x 90° L, latching (1.30.272.102/2200)					1	1 x normally closed (1.20.126.201/9000)		
	C colourless	1	2 x 60° V, latching (1.30.272.302/2200)	0	without	4	0	A		2	2 x normally open (1.20.126.205/9000)				
								B		3	2 x normally closed (1.20.126.204/9000)				
	3	1 x 90° momentary, 1 x 40° latching (1.30.272.427/2200)		4	1	with	8	1		2	2 x normally open (1.20.126.205/9000)				
								3		3	2 x normally closed (1.20.126.204/9000)				
	4	1 x normally closed, 1 x normally open (1.20.126.203/9000)		4	1	with	8	1		4	1 x normally closed, 1 x normally open (1.20.126.203/9000)				
								4		4	1 x normally closed, 1 x normally open (1.20.126.203/9000)				

Your item number:



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# Sibalco Smartline 1

## Key switch RAFIX 22FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

\* Illuminated options are only used to ensure connection compatibility with selectors.

CAS	Series		Type	Actuator Design	Illumination	Connector		Switching element							
	Colour					Pins	Pin assignment								
CAS	B	black	12	- 03	Key switch	1	without *	4	1		0	1 x normally open (1.20.126.202/9000)			
		2								1	1 x normally closed (1.20.126.201/9000)				
	3														
	4														
	C	colourless				1	2 x 90°, latching removal position 0+1+2 (1.30.275.432/0000)	0	without	4	0	A		2	2 x normally open (1.20.126.205/9000)
												B		3	2 x normally closed (1.20.126.204/9000)
						5	2 x 90°, latching removal position 0 (1.30.275.402/0000)	1	without *	8	1	A		2	2 x normally open (1.20.126.205/9000)
												B		3	2 x normally closed (1.20.126.205/9000)
								A		4	1 x normally closed, 1 x normally open (1.20.126.203/9000)				
								B							

Your item number:



Do you have any special requests for your Smartline 1? You will find all the options available starting on page 16.

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# Sibalco Smartline 1

## Push button RAFIX 30FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

CAS	Series		13	01	Type	Actuator Design	Illumination	Connector		Switching element							
	Colour							Pins	Pin assignment								
CAS	B	black	13	01	Push button	0	Push button FLEXLAB (1.30.290.921/0000)	0	without	4	0	A 1 2 B 3 4	2	2 x normally open (1.20.126.205/9000)			
	C	colourless				1	Push button with ring illumination transparent (1.30.290.121/0000)				3	A 1 2 B 3 4	3	2 x normally closed (1.20.126.204/9000)			
						2	Push button with ring illumination red (1.30.290.121/2300)				4	A 1 2 B 3 4	4	1 x normally closed, 1 x normally open (1.20.126.203/9000)			
	C	colourless				1	Push button with ring illumination transparent (1.30.290.121/0000)				1	with	4	1	A 1 4 2 3	0	1 x normally open (1.20.126.202/9000)
															A 1 4 2 3	7	1 x normally open Micon short stroke (1.14.005.111/0000)
															A 1 4 2 3	1	1 x normally closed (1.20.126.201/9000)
								8	1	A 1 2 B 3 4 8 7					2	2 x normally open (1.20.126.205/9000)	
										A 1 2 B 3 4 8 7					3	2 x normally closed (1.20.126.204/9000)	
										A 1 2 B 3 4 8 7					4	1 x normally closed, 1 x normally open (1.20.126.203/9000)	

Your item number:



Do you have any special requests for your Smartline 1? You will find all the options available starting on page 16.  
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# Sibalco Smartline 1 Selector RAFIX 30FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

CAS	Series		Type	Actuator Design	Illumination	Connector		Switching element								
	Colour					Pins	Pin assignment									
CAS	B	black	13	02	Selector	1	with	4	1	A 1 4 2 3	0	1 x normally open (1.20.126.202/9000)				
		C								colourless	2	1 x 90° L, latching (1.30.292.102/2200)	A 1 2 8 7	1	1 x normally closed (1.20.126.201/9000)	
	1										2 x 60°, latching (1.30.292.302/2200)	A 1 2 B 3 4	2	2 x normally open (1.20.126.205/9000)		
	3	1 x 90°, momentary, 1 x 40°, latching (1.30.292.427/2200)								0	without	4	0	A 1 2 B 3 4	3	2 x normally closed (1.20.126.204/9000)
														A 1 2 B 3 4	4	1 x normally closed, 1 x normally open (1.20.126.203/9000)
	1	with								8	1	A 1 2 B 3 4 8 7	2	2 x normally open (1.20.126.205/9000)		
						A 1 2 B 3 4 8 7	3	2 x normally closed (1.20.126.204/9000)								
						A 1 2 B 3 4 8 7	4	1 x normally closed, 1 x normally open (1.20.126.203/9000)								
						A 1 2 B 3 4 8 7										

Your item number:



Do you have any special requests for your Smartline 1? You will find all the options available starting on page 16.  
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## Sibalco Smartline 1 Key switch RAFIX 30FS+



Housing Anodised or powder-coated aluminium  
 Connector Industrial standard M12 connector, A coding  
 Switching voltage max. 35V  
 Illumination 24V, 20mA

\* Illuminated options are only used to ensure connection compatibility with selectors.

Series				Type		Actuator		Illumination	Connector		Switching element									
CAS	-	Colour				Design			Pins	Pin assignment										
CAS	-	B black	13	-	03	Key switch	0	1 x 90° V, latching removal position 0+1 (1.30.295.322/0000)		1	without *	4	1		0	1 x normally open (1.20.126.202/9000)				
							2	1 x 90° V, latching removal position 0 (1.30.295.302/0000)						1	1 x normally closed (1.20.126.201/9000)					
							3	1 x 90° L, latching removal position 0 (1.30.295.202/0000)												
							4	1 x 90° L, latching removal position 0+1 (1.30.295.222/0000)												
							1	2 x 90°, latching removal position 0+1+2 (1.30.295.432/0000)												
		C colourless				13	-	03	Key switch	5	2 x 90°, latching removal position 0 (1.30.295.402/0000)		0	without	4	0	0		2	2 x normally open (1.20.126.205/9000)
														3		2 x normally closed (1.20.126.204/9000)				
														4		1 x normally closed, 1 x normally open (1.20.126.203/9000)				
										1	without *		8	1				2	2 x normally open (1.20.126.205/9000)	
																3		2 x normally closed (1.20.126.204/9000)		
		4	1 x normally closed, 1 x normally open (1.20.126.203/9000)																	

Your item number:

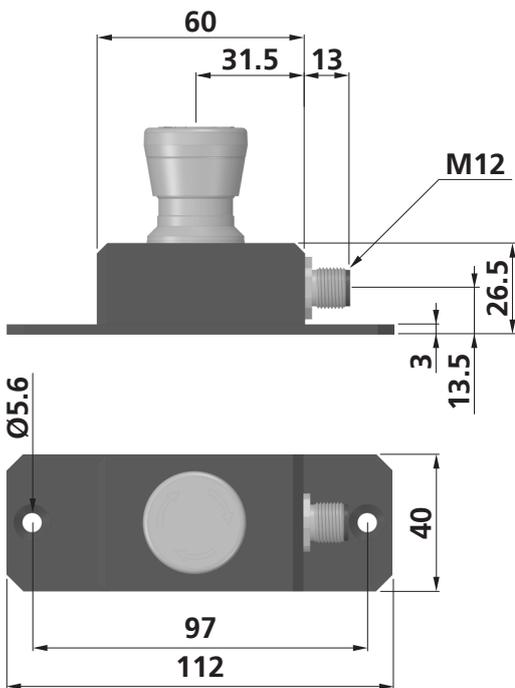


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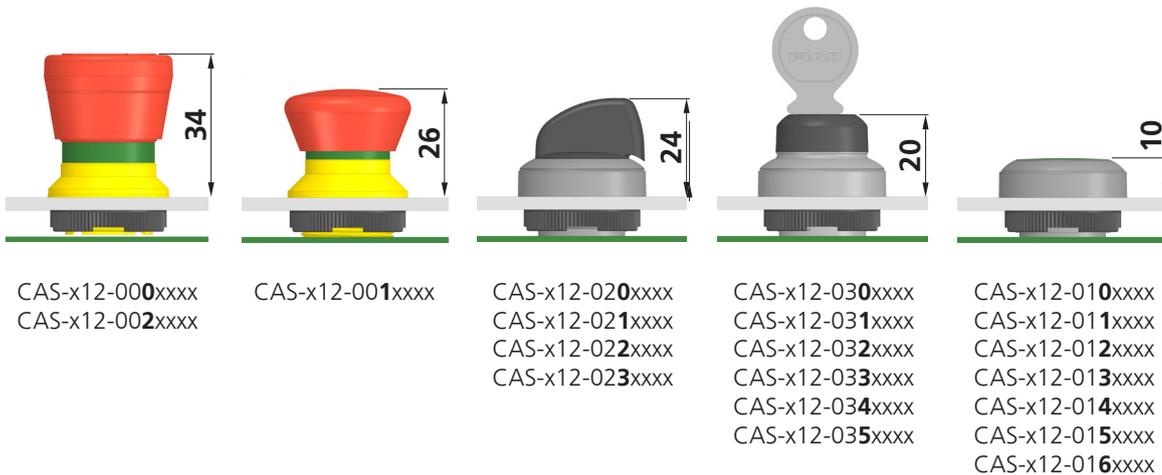
## Sibalco Smartline 1 Mechanical specifications for all series

External dimensions of the housing without actuator height

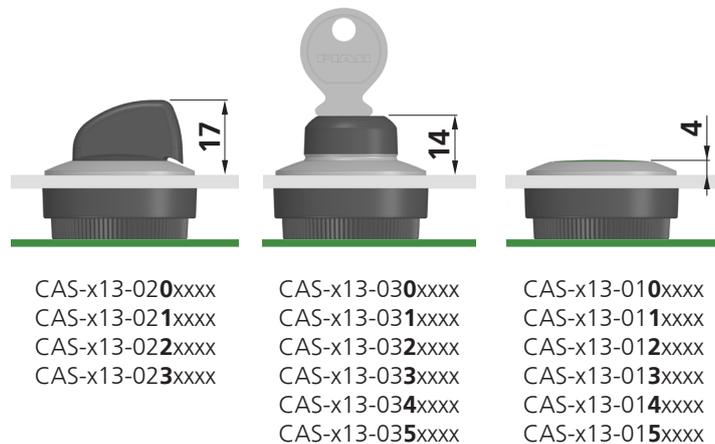


## Sibalco Smartline 1 Mechanical specifications for all series

### Construction height of RAFIX 22FS+ series actuator (CAS-x12-xxxxxxx)



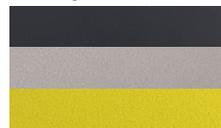
### Construction height of RAFIX 30FS+ series actuator (CAS-x13-xxxxxxx)



### Housing: anodised or powder-coated aluminium

Code	Colour	Surface treatment
CAS-B1x-xxxxxxx	black	anodised
CAS-C1x-xxxxxxx	colourless	anodised
CAS-Y1x-xxxxxxx	yellow	powder-coated

#### Example of surface



# Sibalco Smartline 1

## Electrical specifications for all series

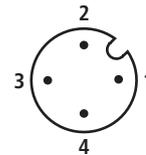
### General specifications

Switching voltage max. 35V  
 Illumination 24V, 20 mA

### Description of emergency stop connections

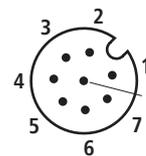
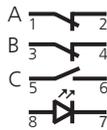
M12 - 4-pin, configuration 0 (CAS-x12-x0x040x)

Pol	Function
1	normally closed (NC) A
2	normally closed (NC) A
3	normally closed (NC) B
4	normally closed (NC) B



M12 - 8-pin, configuration 1 (CAS-x12-x0xx81x)

Pol	Function
1	normally closed (NC) A
2	normally closed (NC) A
3	normally closed (NC) B
4	normally closed (NC) B
5	normally open (NO) C <sup>2)</sup>
6	normally open (NO) C <sup>2)</sup>
7	illumination cathode <sup>3)</sup>
8	illumination anode <sup>3)</sup>

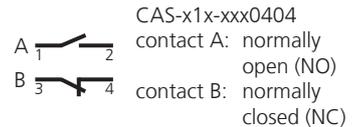
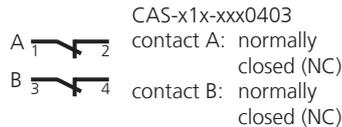
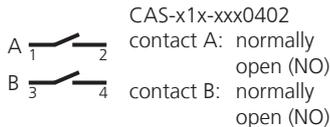


2) Only applicable with the corresponding switching element (CAS-xxx-xxxxxx6), otherwise not connected.  
 3) Applicable only if illuminated (CAS-xxx-xxx1xxx), otherwise not connected.

### Description of connections (without emergency stop)

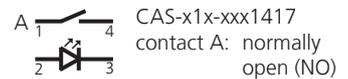
M12 - 4-pin, configuration 0 (CAS-x1x-xxx040x)

Pol	Function
1	contact A
2	contact A
3	contact B
4	contact B



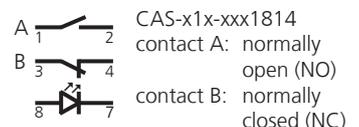
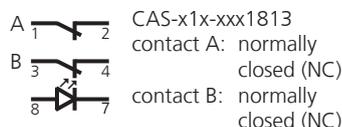
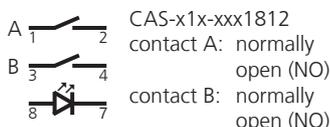
M12 - 4-pin, configuration 1 (CAS-x1x-xxx141x)

Pol	Function
1	contact A
2	illumination anode
3	illumination cathode
4	contact A



M12 - 8-pin, configuration 1 (CAS-x1x-xxx181x)

Pol	Function
1	contact A
2	contact A
3	contact B
4	contact B
5	not connected
6	not connected
7	illumination cathode
8	illumination anode



## Sibalco Smartline 1 Standard accessories

You will find suitable M12 connection cables in our standard range, available in various lengths and versions.

Isolation	Length	straight		angled	
		4 Pol	8 Pol	4 Pol	8 Pol
PVC	2m	1200.04.002.0200	1200.08.004.0200	1205.04.002.0200	1205.08.004.0200
	5m	1200.04.002.0500	1200.08.004.0500	1205.04.002.0500	1205.08.004.0500
	10m	1200.04.002.1000	1200.08.004.1000	1205.04.002.1000	1205.08.004.1000
PUR	2m	1200.04.301.0200	1200.08.303.0200	1205.04.301.0200	1205.08.303.0200
	5m	1200.04.301.0500	1200.08.303.0500	1205.04.301.0500	1205.08.303.0500
	10m	1200.04.301.1000	1200.08.303.1000	1205.04.301.1000	1205.08.303.1000



## Sibalco Smartline 1 Customised modifications

The Smartline series offers a wide range of modification options. Each control unit can be precisely tailored to your technical application, corporate identity and control logic.

### 1. Individual switching elements

If the desired switching element is not available in our standard range, we produce customer-specific options, such as digital encoders, analogue potentiometers or USB feed-throughs, etc.



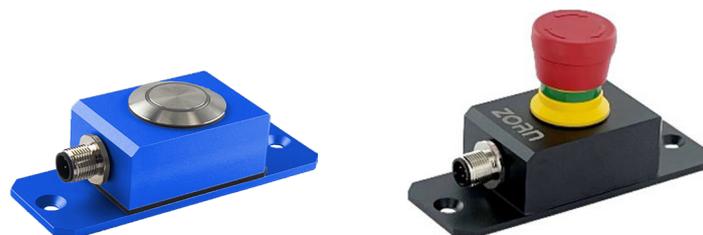
### 2. Precise labelling

We engrave or mark push buttons and surfaces exactly according to your specifications: durably, clearly and legibly.



### 3. Housing colours and marking

Upon request, we can deliver the case in your company colours and incorporate your logo in the designated location, in perfect harmony with your visual identity.



## Sibalco Smartline 1 Customised modifications

### 4. Variants with multiple actuation positions

If you require more operating functions, the Smartline offers variants with 2, 3, 4, 6 actuators. With SIBALCO Frontline we provide front panels for Industrial PCs or individual front panels.



### 5. Special form factors

Do you require a different geometry or a specific mechanical structure? We develop customised mechanical and electrical solutions.



### 6. Connection cables

We supply ready-to-go connection cables in various lengths and versions, perfectly suited to your application.



## Sibalco Smartline 1 Individual solutions for every application

Whether for mechanical engineering, robotics, medical technology or special plant construction: the Smartline series can be flexibly adapted to your technical requirements.

### Your benefits at a glance

- Wide variety of variants thanks to modular components
- Mechanical and electrical adaptations possible
- Precise laser markings and branding options
- Short delivery times for standard and customised solutions
- Multiple variants available: Smartline 2, 3, 4, 6 and Frontline
- Suitable connection cables from a single source

### SIBALCO Command Overview



# Company information

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[sibalco.ch](http://sibalco.ch)



[Sibalco  
Command](#)

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