

Technical Information DSM-01 Switch Unit DSM 24 V 01

- ☑ For SITEMA SiBox SB 20 1 with electrical clamping head
- ☑ Useful for tests, assembly and disassembly



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1 Purpose

The Switch Unit is connected to the SiBox. It is used if no high-level control system is available yet. Switching signals can be sent to the SiBox via the Switch Unit to enable switching of an electrical clamping head connected to the SiBox.

It is used particularly during assembly and disassembly. The clamping head and the SiBox are frequently not yet connected or no longer connected to the high-level control system at this stage. With the Switch Unit, the clamping of the clamping head can be opened or closed to insert or remove the rod, for example.

The Switch Unit can only be used in combination with an SiBox. The Switch Unit can only be actuated if the electrical clamping head and the Switch Unit are connected to the SiBox.

SITEMA offers the Switch Unit as an accessory part.

2 Function

Overview

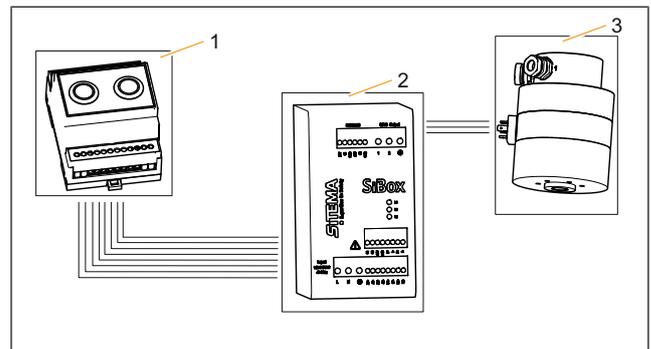


Fig. 1: Overview of Switch Unit with SiBox

1	Switch Unit
2	SiBox
3	Electrical clamping head

The Switch Unit is connected via 8 connection cables to the connectors of the SiBox with the same names (A1+, A1-, A2+, A2-, L+, L-, GND, 24V). It is directly ready for use.

The following specifications apply to the connection cables:

Connection from SiBox to Switch Unit	Separate stranded wires
	Nominal conductor cross section: 1.0 mm ²
	Conductor design: IEC 60228 class 1; solid conductor
	Current-carrying capacity according to VDE 0298-4

SITEMA recommends a maximum cable length of 3 meters between the SiBox and the Switch Unit.

Detailed instructions for connecting and operating the Switch Unit can be found in the operating manual for the electrical clamping head.

Actuation of the Switch Unit

Prerequisites:

- The Switch Unit must be connected to the SiBox
- The electrical clamping head must be connected to the SiBox
- The SiBox must indicate readiness for operation

The Switch Unit has 2 buttons:



Fig. 2: Switch Unit buttons: 1 – Release, 2 – Switch

- (1) Release
- (2) Switch

These buttons have the following functions:

	Button 1: Set SiBox release signals	The two internal contactors 1 and 2 of the SiBox close; release for switching is issued.
	Button 2: Send switching signal to the SiBox	The SiBox switches the clamping head; the clamping of the clamping head opens or closes.

3 Technical data, connectors and dimensions

Electrics	
Operating voltage	24 V
Inputs/outputs	24 V
Connection terminals	up to 2 mm ² ; screw connection
Dimensions	
Height	95.7 mm
Width	70.8 mm
Depth	59.3 mm
Weight	
	0.14 kg

8 connection cables are required to connect the Switch Unit to the SiBox.

4 Operating conditions

Maximum ambient temperature	0 to 40 °C
Relative humidity	< 90 % non-condensing
Maximum operating height	2,000 meters above MSL
IP protection	IP 20

Suitable for indoor use only.

5 Order number

ID/order number	DSM 24V 01	for SiBox SB 20 1 with clamping head KSE
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