



# Safety Limit Switch SLS

## Data sheet

# SLS

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There are 2 types of SLS switches, an analogue and an OpenBus™.

The analogue SLS can be used as a safety feature that cuts off the current to the actuator.

The SLS is available with 1 or 2 switches (activated by the same button). It can be placed to prevent an unintentional positioning of the various frame segments in relation to each other or simply as an external limit switch to protect the frame against the full thrust of the actuator in end position. The actuator stops immediately when the button is pressed.

The OpenBus™ SLS is to be used together with the OpenBus™ Control boxes.

It is available as a Passive or as an Active type. It is available with 1 Switch, Normally Open (NO). The Standard OpenBus™ SLS is not to be used for Safety (Signal Limit switch).

Both types can be used as an external signal unit that e.g. gives a signal to the control box. This signal can limit or interrupt the functions on e.g. a bed or can be used to start a function (OpenBus™).



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## Features:

- Fully compatible with LINAK SYSTEMS
- Sturdy, grey plastic housing
- To be mounted on the cable between the control box and the actuator: LA28, LA28S, LA30, LA31, LA32 or LA34 (analogue SLS)
- To be mounted directly to the OpenBus™ system (OpenBus™ SLS) on the Control Box or via an MJB.
- Small dimensions for easy and inconspicuous installation
- Rated at 5A / 24V DC (analogue)
- Protection class: IPX6, IPX6 washable\*\* (all ultrasonic welded)
- Colour: light grey (RAL 7035)

## Options:

- Customised software (OpenBus™)

## Usage:

- Ambient temperature +5C° to + 40C°
- Current consumption
- Approvals: LINAK and UL International DEMKO A/S are currently in the process of certifying OpenBus™ SLS, re. UL60601 and EN60601-1

### OpenBus™ SLS functionality:

The OpenBus™ SLS is a normally open switch. When the switch is activated, ID1/Hxx is set on the OpenBus™. The OpenBus™ SLS can be ordered as an active or a passive type.

Active type means with power request when the switch is activated. The active type is to be used for activating a function (actuator movement).

Passive type means without power request when the switch is activated. The passive SLS can be used as a brake buzzer switch or as a part of an activation, for instance in combination with a Hand control, e.g. HB80.

### SLS

#### Ordering example:

SLS 0 0 0 + 0 100 0 100

<p>└─ Cable length L2 (right):</p> <p>└─ Plug type for L2:</p> <p>└─ Cable length L1 (left):</p> <p>└─ Plug type for L1:</p> <p>└─ Colour:</p> <p>└─ Actuator:</p> <p>└─ Function:</p> <p>└─ IP degree:</p>	<p><b>Length in cm*</b></p> <p>000 = No cable (+ blind plug)</p> <p>100 = Straight, 1000 mm</p> <p>120 = Straight, 1200 mm</p> <p>150 = Straight, 1500 mm</p> <p>200 = Straight, 2000 mm</p> <p>245 = Straight, 2450 mm</p> <p>C20 = Coiled, 200 mm</p> <p>C40 = Coiled, 400 mm</p> <p><b>0 = No plug</b></p> <p>1 = Jack plug</p> <p>2 = DIN plug (4P)</p> <p>X = Other</p> <p><b>Length in cm*</b></p> <p>000 = No cable (+ blind plug)</p> <p>100 = Straight, 1000 mm</p> <p>120 = Straight, 1200 mm</p> <p>150 = Straight, 1500 mm</p> <p>200 = Straight, 2000 mm</p> <p>245 = Straight, 2450 mm</p> <p>C20 = Coiled, 200 mm</p> <p>C40 = Coiled, 400 mm</p> <p><b>0 = No plug</b></p> <p>1 = Jack plug</p> <p>2 = DIN plug (4P)</p> <p>3 = Modular Plug (RJ45 10 pins/5 wires, only for OpenBus function)</p> <p>X = Other</p> <p>+ = Grey</p> <p>- = Black (does not exist yet)</p> <p><b>0 = No actuator</b></p> <p>1 = LA28</p> <p>2 = LA30</p> <p>3 = LA30 IPX6</p> <p>4 = LA31</p> <p>5 = LA32</p> <p>6 = LA34</p> <p>7 = LA34 Compact</p> <p><b>0 = 1 actuator outwards direction, stops when switch is activated/inwards direction is always possible (1*NC with diode)</b></p> <p><b>1 = 1 actuator inwards direction, stops when switch is activated/outwards direction is always possible (1*NC with diode)</b></p> <p>2 = 1*NO switch external signal unit/simple switch function</p> <p>3 = 1*NC switch external signal unit/simple switch function</p> <p>4 = for OpenBus™ SLS NO, with Power Request, H30, only plug type "L1"/ Modular plug</p> <p>5 = for OpenBus™ SLS NO, no Power Request, H31, only plug type "L1"/ Modular plug</p> <p>6 = for OpenBus™ SLS NO, no Power Request, H30, only plug type "L1"/ Modular plug</p> <p>7 = for OpenBus™ SLS NO, with Power Request, H29, only plug type "L1"/ Modular plug</p> <p>8 = for OpenBus™ SLS NO, no Power Request, H29, only plug type "L1"/ Modular plug</p> <p>9 = for OpenBus™ SLS NO, with Power Request, H31, only plug type "L1"/ Modular plug</p> <p>X = Other</p> <p>4 = IPX6 welding</p> <p>6 = IPX6 washable welding**</p>	<p><b>Jack</b></p> <p>0015705</p> <p>0015705</p> <p>0015704</p> <p>0015704</p> <p>0015704</p> <p>0015704</p> <p>0015734</p> <p>0015736</p> <p><b>Din</b></p> <p>0015171-A</p> <p>0015171-A</p> <p>0015171-A</p> <p>0015171-A</p> <p>0015171-A</p> <p>0015350</p> <p>(does not exist)</p> <p><b>MP (RJ45)</b></p> <p>0964050-A</p> <p>0964050-A</p> <p>0964050-A</p> <p>0964050-A</p> <p>0015350</p> <p>(does not exist)</p>	<p><b>No plug</b></p> <p>0015034 or</p> <p>0015036 for</p> <p>LA31</p> <p><b>No plug</b></p> <p>0015034 or</p> <p>0015036 for</p> <p>LA31</p>
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\* Also possible to order other lengths (min. Length 100 mm)

\*\* According to wash profile chapter 4.2.18 in the SBU

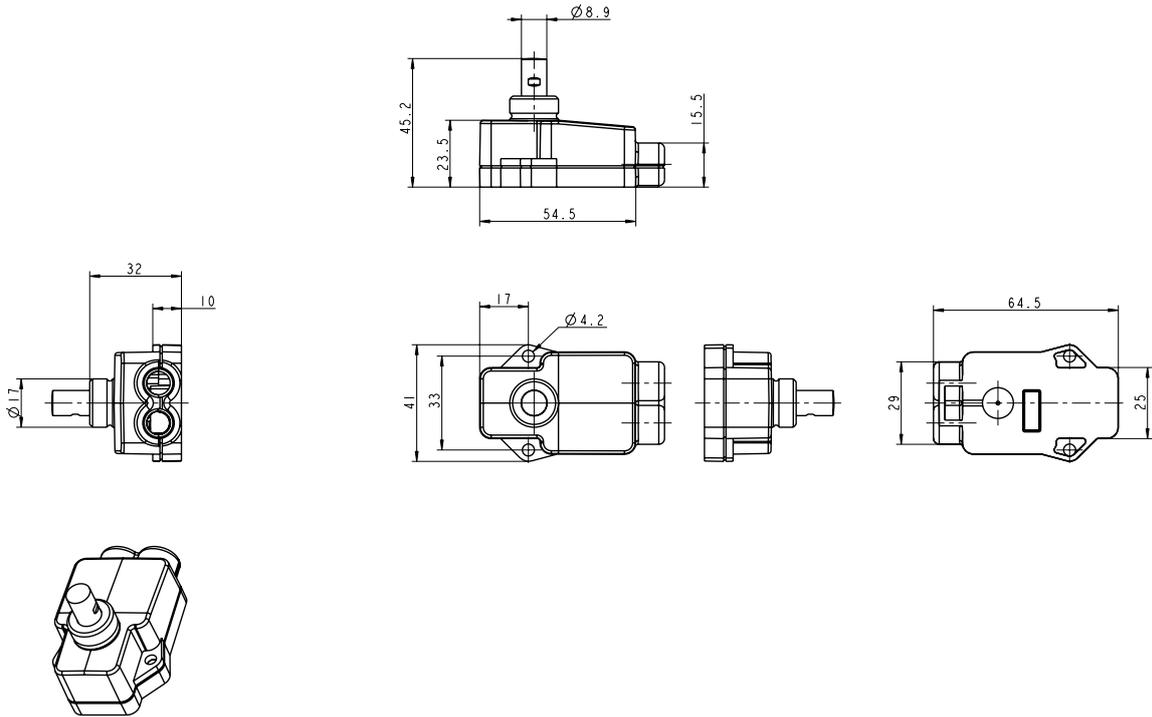
Double switch must be ordered as a special article.



#### N.B.:

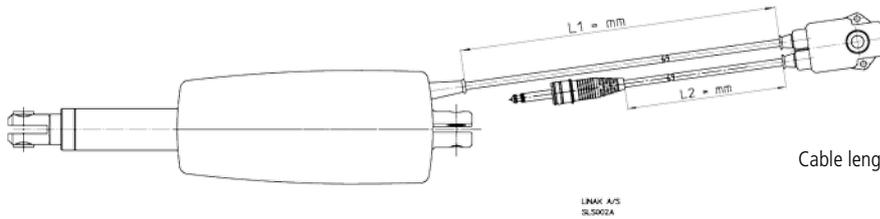
- Cable length, L1 and L2 in mm see cable drawing
- It is no longer possible to order the SLS version fitted with screws.

**Dimensions:**



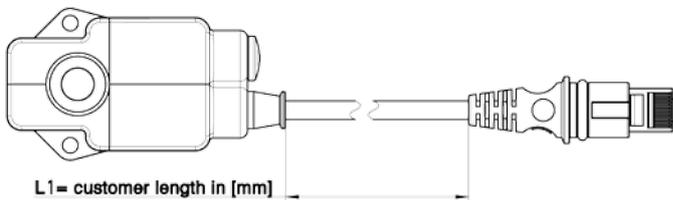
The ultrasonic welded SLS is fully compatible with the screwed SLS. All outer dimensions as well as the activation point are unchanged.

**Cable length:**



Cable length Safety Limit Switch

LINAK A/S  
865002A



Cable length Signal Limit Switch

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