Safety Limit Switch SLS
Data Sheet



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Introduction

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

The analogue SLS can be used as safety feature to cut 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 both as a passive and as an active type. It comes 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 gives a signal to the control box. This signal can limit or interrupt the functions on for instance a bed or can be used to start an OpenBus function.

Features and options

Compatibility:	Fully compatible with LINAK® systems
Housing:	Sturdy, grey plastic housing
Mounting:	• To be mounted on the cable between the control box and the actuator LA28, LA28S, LA30, LA31 or LA34 (analogue SLS) • To be mounted directly on the OpenBus system (OpenBus SLS), on the control box or via an MJB
Dimensions:	Small dimensions for easy installation
Voltage:	Rated at 5A / 24V DC (analogue)
Software:	Customised Software (OpenBus)
Protection class:	IPX6, IPX6 Washable
Colour:	Light grey (RAL 7035)

Usage

Usage temperature:	5 °C to 40 °C
Storage temperature	-10 °C to 50 °C
Atmospheric pressure:	700 to 1060 hPa
Height above sea level:	Max. 3000 meters
Approvals:	IEC60601-1 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1

Ordering example

SLS 0 0 0 + 0 100 0 100

CABLE LENGTH L2 (right)

Length in cm*		Jack	Din	No plug
000 =	**No cable (+ blind plug)**			
100 =	Straight, 1000mm	0015705	0015171-A	0015034 or
120 =	Straight, 1200mm	0015705	0015171-A	0015036 for
150 =	Straight, 1500mm	0015704	0015171-A	LA31
200 =	Straight, 2000mm	0015704	0015171-A	
245 =	Straight, 2450mm	0015704	0015171-A	
C20 =	Coiled, 200mm	0015734	0015350	
C40 =	Coiled, 400mm	0015736	(does not exist)	

PLUG TYPE for L2

0 = No plug
1 = Jack plug
2 = DIN plug (4P)
X = Other

CABLE LENGTH L1 (left)

Length in cm*		Jack	Din	MP(RJ50)	No plug
000 =	**No cable (+ blind plug)**				
100 =	Straight, 1000mm	0015705	0015171-A	0964050-A	0015034 or
120 =	Straight, 1200mm	0015705	0015171-A	0964050-A	0015036 for
150 =	Straight, 1500mm	0015704	0015171-A	0964050-A	LA31
200 =	Straight, 2000mm	0015704	0015171-A	0964050-A	
245 =	Straight, 2450mm	0015704	0015171-A		
C20 =	Coiled, 200mm	0015734	0015350		
C40 =	Coiled, 400mm	0015736	(does not exist)		

PLUG TYPE for L1

0 = No plug
1 = Jack plug
2 = DIN plug (4P)
3 = Modular Plug (RJ50 10 pins/5 wires, only for OpenBus function)
X = Other

COLOUR

\+ = Grey
\- = Black (does not exist yet)

ACTUATOR

0 = No actuator
1 = LA28
2 = LA30
3 = LA30 IPX6
4 = LA31
6 = LA34
7 = LA34 Compact

FUNCTION

0 = 1 actuator outwards direction, stops when switch is activated/ inwards direction is always possible (1*NC with diode)
1 = 1 actuator inwards direction, stops when switch is activated/ outwards direction is always possible (1*NC with diode)
2 = 1*NO switch external signal unit/simple switch function
3 = 1*NC switch external signal unit/simple switch function
4 = for OpenBus™ SLS NO **with** Power Request, **H30**, only plug type "L1"/ Modular plug
5 = for OpenBus™ SLS NO, **no** Power Request, **H31**, only plug type "L1"/ Modular plug
6 = for OpenBus™ SLS NO, **no** Power Request, **H30**, only plug type "L1"/ Modular plug
7 = for OpenBus™ SLS NO **with** Power Request, **H29**, only plug type "L1"/ Modular plug
8 = for OpenBus™ SLS NO, **no** Power Request, **H29**, only plug type "L1"/Modular plug
9 = for OpenBus™ SLS NO **with** Power Request, **H31**, only plug type "L1"/ Modular plug
X = Other

IP DEGREE

4 = IP X6 welding
6 = IP X6 washable welding

* Also possible to order other lengthes (min. Length 100mm)
Double switch must be ordered as a special article.

Note:

- Cable lengths L1 and L2 in mm can be seen in the cable drawing
- It is no longer possible to order the SLS version fitted with screws

Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: SLS

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

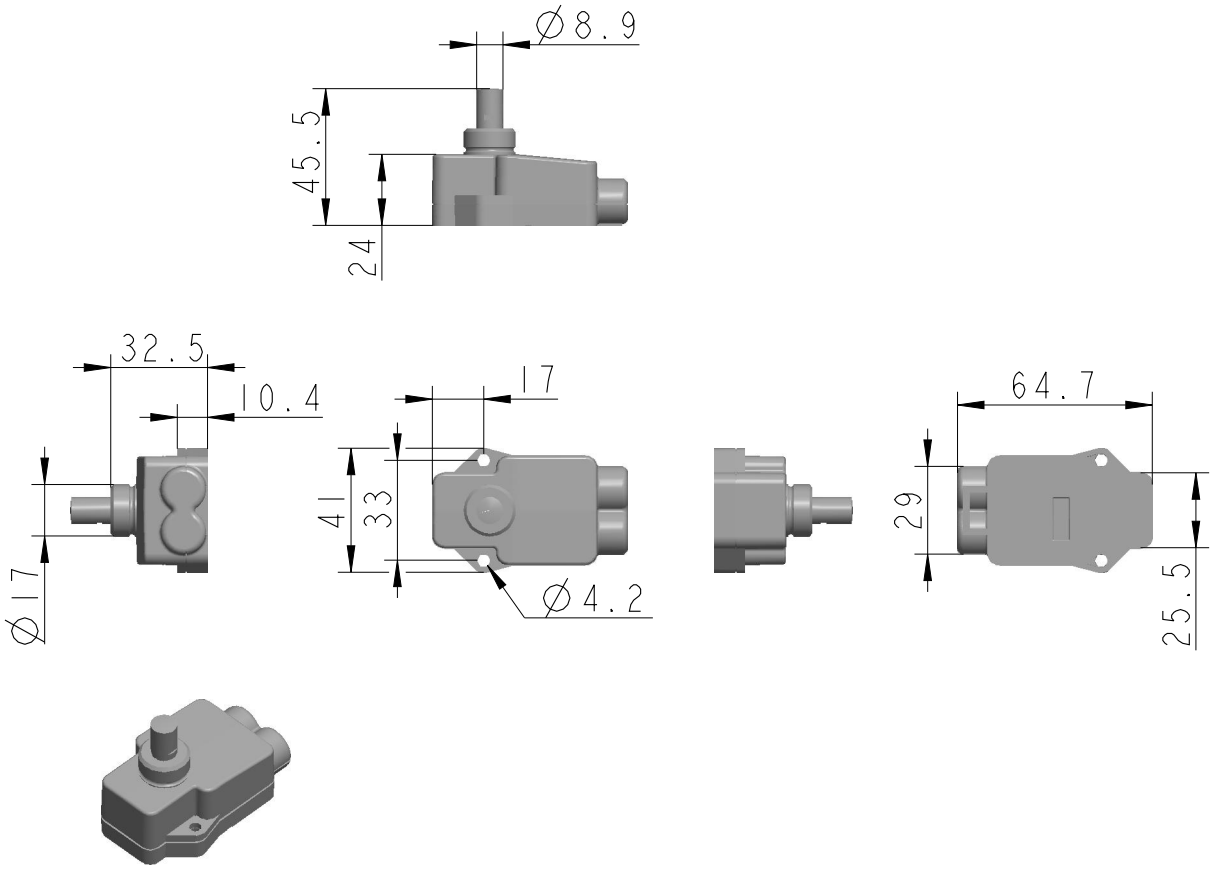
Listed LINAK item for application approval: SLSS**********

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

Dimensions

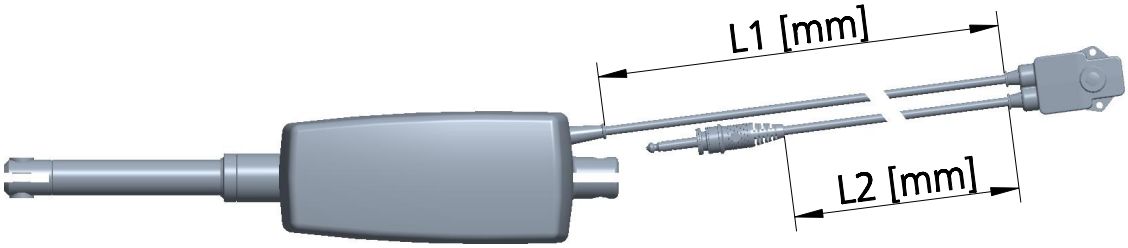


Drawing number: 09144001

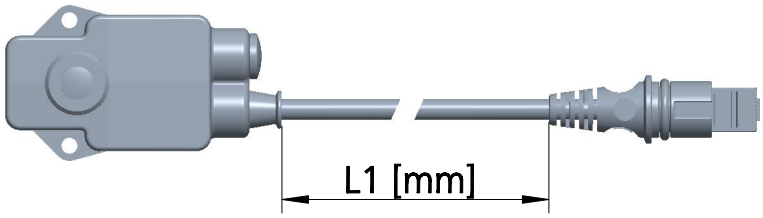
Information

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

Cable lengths



Drawing number: 09144002



Drawing number: 09144003

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