



User manual

Cable Handswitch for installation below the desktop

HSF

Rev 2



MOTION FOR YOUR LIFE



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Under the warranty terms, **LOGICDATA** shall replace or repair any products that prove defective at the time of delivery. **LOGICDATA** shall not assume any further liability.
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1. Preface

Dear customer,

Thank you for choosing a HSF - cable-handswitch by **LOGICDATA Electronic & Software Entwicklungs GmbH**. You have purchased a state-of-the-art product.

2. General

2.1 Intended Use

The HSF cable-handswitch must be used with **LOGICDATA** control boxes. The control box must be installed, initially operated and functional tested by competent personnel only. Use other than described above is only allowed with permission of **LOGICDATA**.



Information: For all information concerning **LOGICDATA** control boxes please refer to the corresponding manual.

2.2 Definition



Information: For definitions and information concerning **LOGICDATA** Control boxes please refer to the applicable manual.

Aside of moving your table up and down your **LOGICDATA** control box is able to carry out other functions, like controlling the brightness of a lamp or a monitor – height adjustment. This function is called second motor group.

2.3 Functionality HSF

The HSF - cable-handswitch offers following functionality:

- Ultra - flat design
- Big and comfortable to use buttons
- New info display with status information
- Display of 1/10 inch or cm
- soft click button feeling
- shift mechanism under table plate
- Easy and fast underside mounting (screws are included)

2.4 Package Contents

The HSF - cable-handswitch package contains:



Figure 1: Package contents

- ① HSF - cable-handswitch
- ② mounting plate
- ③ screws



Danger: Use only genuine replacement parts! Repairs must be carried out only by a qualified service technician! If you neglect to do so you void your warranty!



2.5 Overview

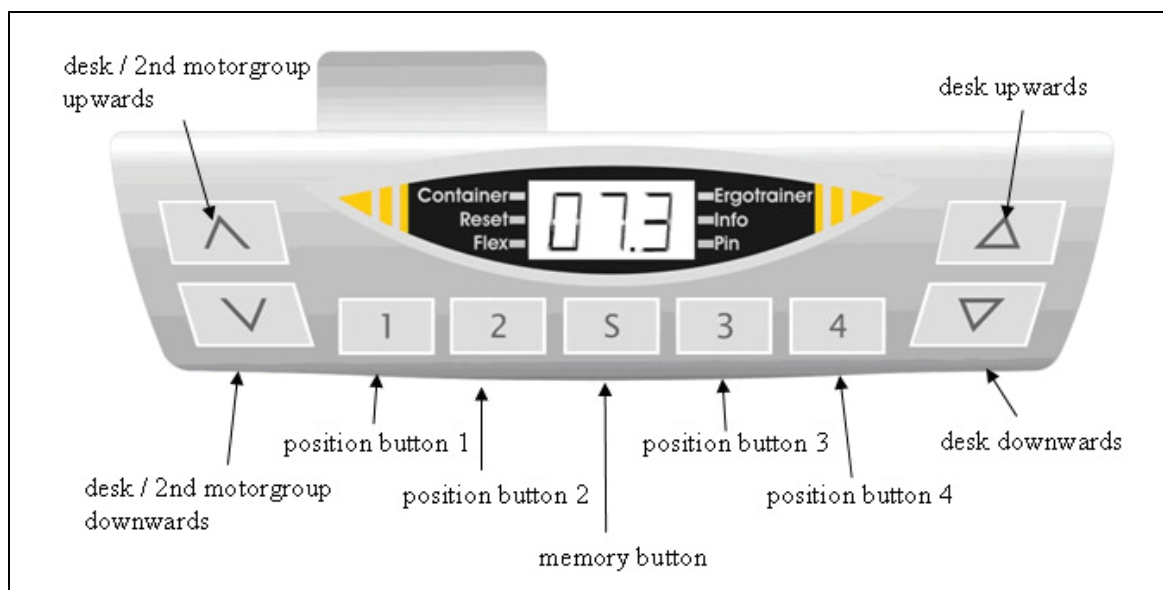


Figure 2: Overview HSF

2.6 Display overview

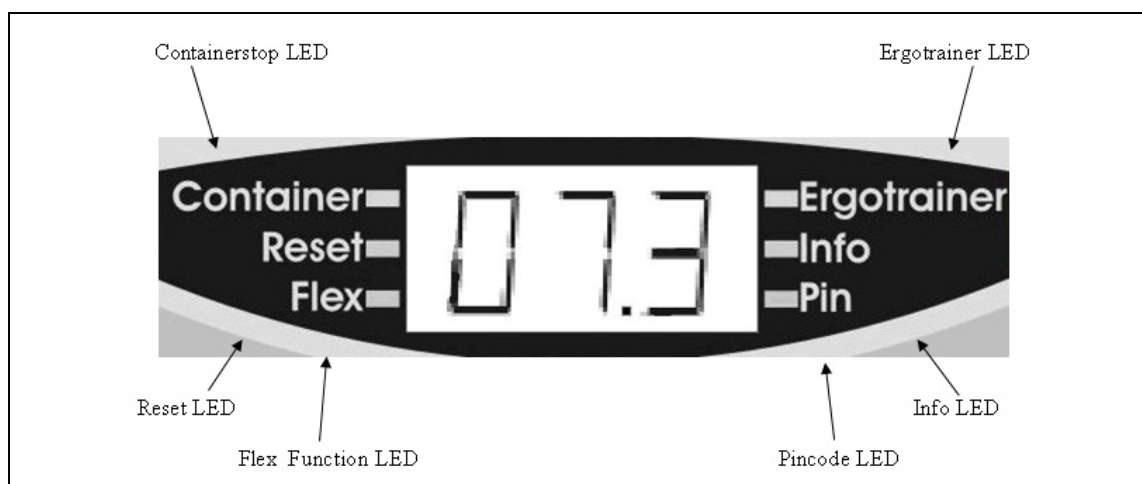


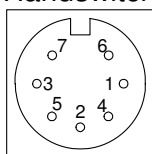
Figure 3: Display of HSF



2.7 Handswitch Plug

Pin assignment

Handswitch connector



1	HS1	5	HS4
2	HS3	6	+5V
3	n.c.	7	SER_OUT
4	HS2	Shell	GND
n.c.	not connected		

(pin alignment according to DIN 45329)



Caution: The HSF handswitch is only suitable for **LOGICDATA** motor controls. To prevent damage of the unit, take care not to interchange handswitch and motor sockets.

Colour code: Handswitch: blue
Motor: black

3. Mounting Instructions

Mount the HSF - cable-handswitch underside your desktop in an appropriate position. Following tools are required for installation:


- 1 screw driver

Please take note, that the handswitch is equipped with a shift mechanism. Therefore always mount the handswitch in a drawn in position.

1. Unpack the handswitch.



Note: Dispose of the packaging material ecologically sound (separate plastic foil and cardboard)!

2. Place the handswitch on the underside of your desktop on the position of choice. Note that the handswitch should be reached comfortably. Its front side should not protrude over the table's edge.
3. Fix the mounting plate with the 6 enclosed screws.
4. Connect the handswitch to the control box using the jack marked with  only! Do not connect the handswitch plug to the motor jacks!



Caution: Unplug the power cord of the control unit while mounting the handswitch!

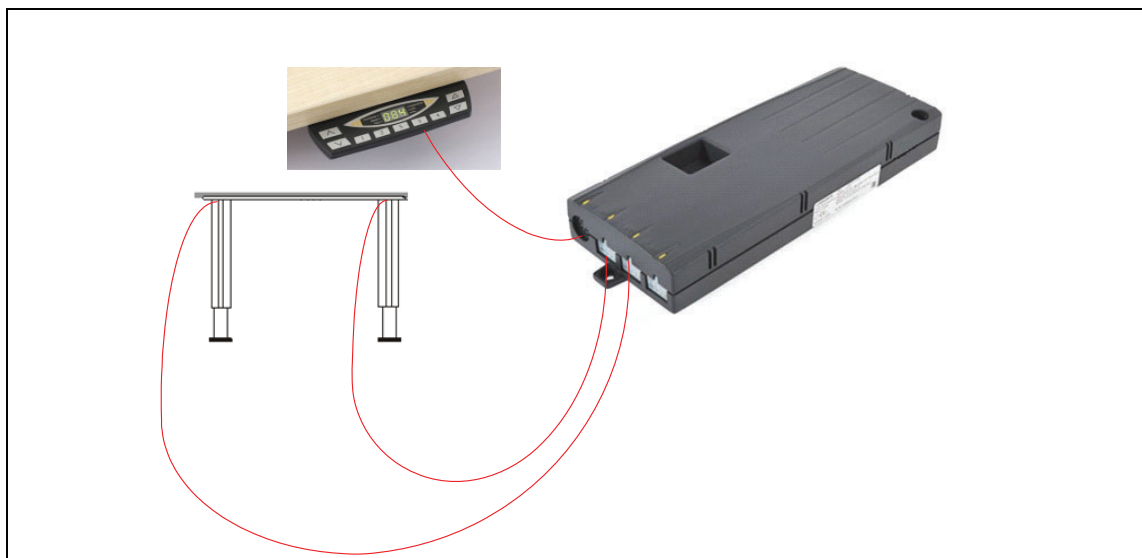


Figure 4: Connect the HSF cable-handswitch to the control box (e.g. COMPACT)

4. Functions

The HSF – cable-handswitch is capable of a wide range of functions, which are described below.

4.1 Display

The display of the HSF – cable-handswitch consists of a 3 digit position and information display and 6 lateral information LEDs.



4.2 Information LEDs



Note: Please refer to your control box manual for further information regarding the functions mentioned below

Container – LED

This LED shows that the Containerstop function is active.

Reset – LED

This LED shows that the control box is being reset.

Flex – LED

This LED shows that the Flex Function is active.

Ergotrainer – LED

This LED shows that the Ergotrainer is active.







Info – LED

This LED warns you of important information on the position and information display.

PIN – LED

This LED shows that the Pincode function is active.

4.3 Basic Functions

Function	Description	Note
Desk upwards 	For an upward adjustment of the desk push this button. Push this button until the desired height of the desk has been reached.	The desk will continue driving upwards until you release the button, or the maximum height is reached.
Desk downwards 	For a downward adjustment of the desk push this button. Push this button until the desired height of the desk has been reached.	The desk will continue driving downwards until you release the button, or the minimum height is reached.
Motor group 2 / Desk upwards 	For an upward adjustment of the motor group 2 (e.g. monitor adjustment) or desk, push this button. Push this button until the desired height of the desk has been reached.	In case of no motor group 2 attached this button is used for the Desk upwards function. Motor group 2 will continue driving upwards until you release the button, or the maximum height is reached.
Motor group 2 / Desk downwards 	For a downward adjustment of the motor group 2 (e.g. monitor adjustment) or desk, push this button. Push this button until the desired height of the desk has been reached.	In case of no motor group 2 attached this button is used for the Desk downwards function. Motor group 2 will continue driving downwards until you release the button, or the minimum height is reached.



Note: In case of no motor group 2 attached the therefore assigned buttons (motor group 2 upwards / motor group 2 downwards) are used for the desk upwards / desk downwards functions.



4.4 Advanced Functions

4.4.1 Storing a position




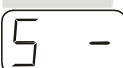




Using this function you are able to store a desk-height.



Note: On initial operation all stored positions are equal to the lowest possible desk-height (lower end position).



Note: Only one desk-height per button is allowed.


1.  Move the desk to the position you want to store.
 The display reads the actual height of the desk (e.g. 73cm).
2.  Press the **S** button.
 The display reads **S -**.
3.  Press the position button of choice (e.g. S2).
 The display reads **S 2**.
4.  Now the height is stored on the chosen position button.
 The saving operation is confirmed with a double-click sound and after approximately 2 seconds the stored height will be displayed.

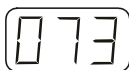


4.4.2 Recalling a saved position

Using this function you are able to recall a stored position.

Alternative A (manually)

1.  Press and hold the desired position button (e.g. 2).
The desk moves until the saved position is reached. If you release the button before reaching the saved position, the desk stops and the saved position will not be reached.
2. The desk has reached the saved height. Release the position button




The display reads the actual desk-height.

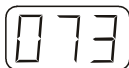
Alternative B (using double click automatic function)



Note: If the double click function is available depends on the configuration of your control box.

1.  Double-click the desired position button (e.g. 2)
2. The desk automatically moves to the saved position.

If you press any button before reaching the saved position, the desk stops and the saved position will not be reached.



The display reads the actual desk-height.

5. Technical Data

Supply voltage	5VDC \pm 10%
Current consumption (average)	75 mA
Life cycle (switching cycles)	10. 000
Ambient temperature	0 – 40° C
Cable length	2070 mm \pm 50mm
Dimensions (l, w, h)	141mm x 129 mm x 9,6mm
Weight	0,13 kg (incl. Cable)



Note: The foil of the handswitch might perish or might grow pale due to intensive UV radiation. Therefore avoid direct solar radiation!



6. Appendix

6.1 Possible Errors and Solutions

This chapter offers detailed information on possible troubles and solutions:


Display does not work (buttons work)

Possible Cause	Solution
Cable is defect	Contact our customer service
Display is defect	Contact our customer service / change the handswitch
Microcontroller is defect	Contact our customer service / change the handswitch
Handswitch is defect	Contact our customer service / change the handswitch

Buttons do not work (display works)

Possible Cause	Solution
Cable is defect	Contact our customer service
Handswitch is defect	Contact our customer service / change the handswitch

Handswitch does not work (neither display nor buttons)

Possible Cause	Solution
Cable is not plugged	Plug the plug in the intended jack marked with  .
Cable is not plugged as intended	
Bad pin contact	Plug off the plug and plug it in as intended (as described above)
Cable is defect	Contact our customer service



7. Further Information

7.1 Final Disposal

Please heed following disposal instructions when disposing of the HSF-cable-handswitch:



Note: Dispose of the components ecologically sound (separate plastic from electronics parts)!

7.2 Manufacturer information

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