

## MultiPortSwitch



## Keyboard/Mouse change-over switch

## Document version:

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## 1 Function

### 1.1 General

The Keyboard/Mouse change-over switch is equipped with three connectors, each with two DIN-standard (PS/2) plug sockets which are mounted on the front cover:

- Plug socket A [2x 6-Pin (PS/2)]
- Plug socket B [2x 6-Pin (PS/2)]
- Plug socket Common [2x 6-Pin (PS/2)]

### 1.2 Change-over function

The change-over function redirects all signal lines of each PS/2 plug connector. The active signal line (**A** ↔ **Common** and **B** ↔ **Common** respectively) is displayed via LED (see page 6 - Illustration: Operating mode)..

### 1.3 Installation

The Keyboard/Mouse change-over switch is a passive IT-product that is used in connection with IT-components, such as PCs, PC-networks, network-components, etc. The Keyboard/Mouse change-over switch is installed into active data channels of respective IT-devices. Therefore, its installation may be carried out only by experienced IT-specialists.

Disconnect all components and devices from their electricity supply before installing the Keyboard/Mouse change-over switch.

Exercise great caution while connecting the cables: Make sure that a particular data channel's wires are connected only to the respectively labelled plug sockets on the Keyboard/Mouse change-over switch.

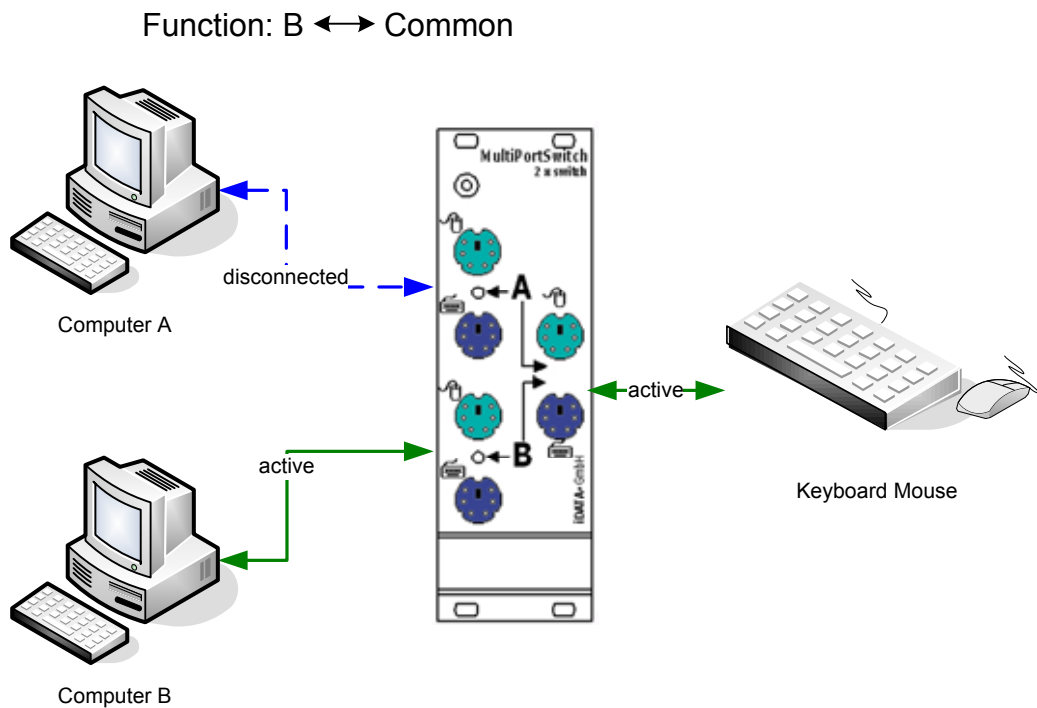
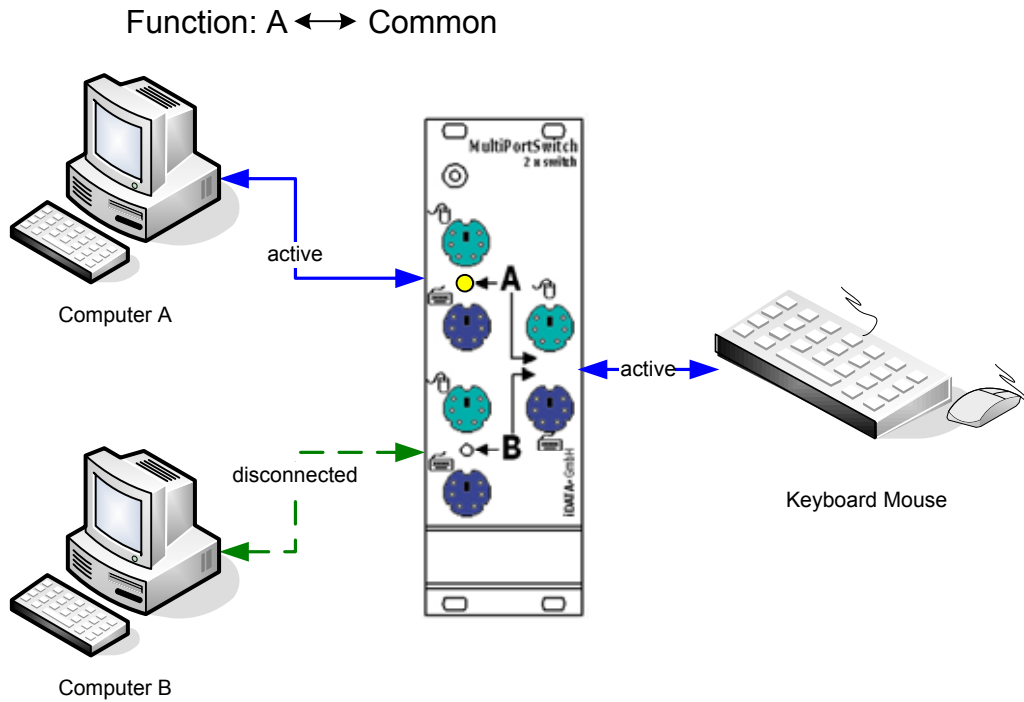
Any improper connection of the wires (i.e. accidental permutation of wires or the use of external wires) may result in faulty service, severe system damage up to destruction of all connected components

### 1.4 Directions for use and limitations

The Keyboard/Mouse change-over switch facilitates physical redirection of data channels, which is tantamount to dis-/connecting data channels by manually plugging or unplugging wires.

This implies that any accidental switching, i.e. while data transfer is in progress, may lead to defective system performance.

## 2 Illustration: Operating mode



## 3 Hardware

### 3.1 Casing

Front cover	Aluminium
Colour	light grey (RAL 7035)
Height	3 HE
Width	8 TE
Depth	172 mm (without handle bar)

### 3.2 Mounting options

Available casings

- 19"-table-mounted casing
- 19"-slide-in casing

Mounting direction

- front panel (Optional - please specify when ordering)
- rear panel (Standard)

### 3.3 Plug versions

- Plug socket A            2 x PS/2 6-pole
- Plug socket B            2 x PS/2 6-pole
- Plug socket Common 2 x PS/2 6-pole

### 3.4 Compatibility

Compatible with all established keyboard- and mouse-types.

### 3.5 Switching characteristics

The change-over of all signal conductors implemented in the PS/2 plug sockets is carried out by mechanical relays. Each of these relays is capable of approx.  $5 \times 10^5$  circuits at 20 switches/minute and 1 ampere load current.

### 3.6 EMC-performance

In order to improve EMC-performance, the Keyboard/Mouse circuit board is constructed using multilayer-technology with extra shielding layers

### 3.7 Voltage supply

- 24 volts via the MultiPortSwitch slide-in power supply unit.

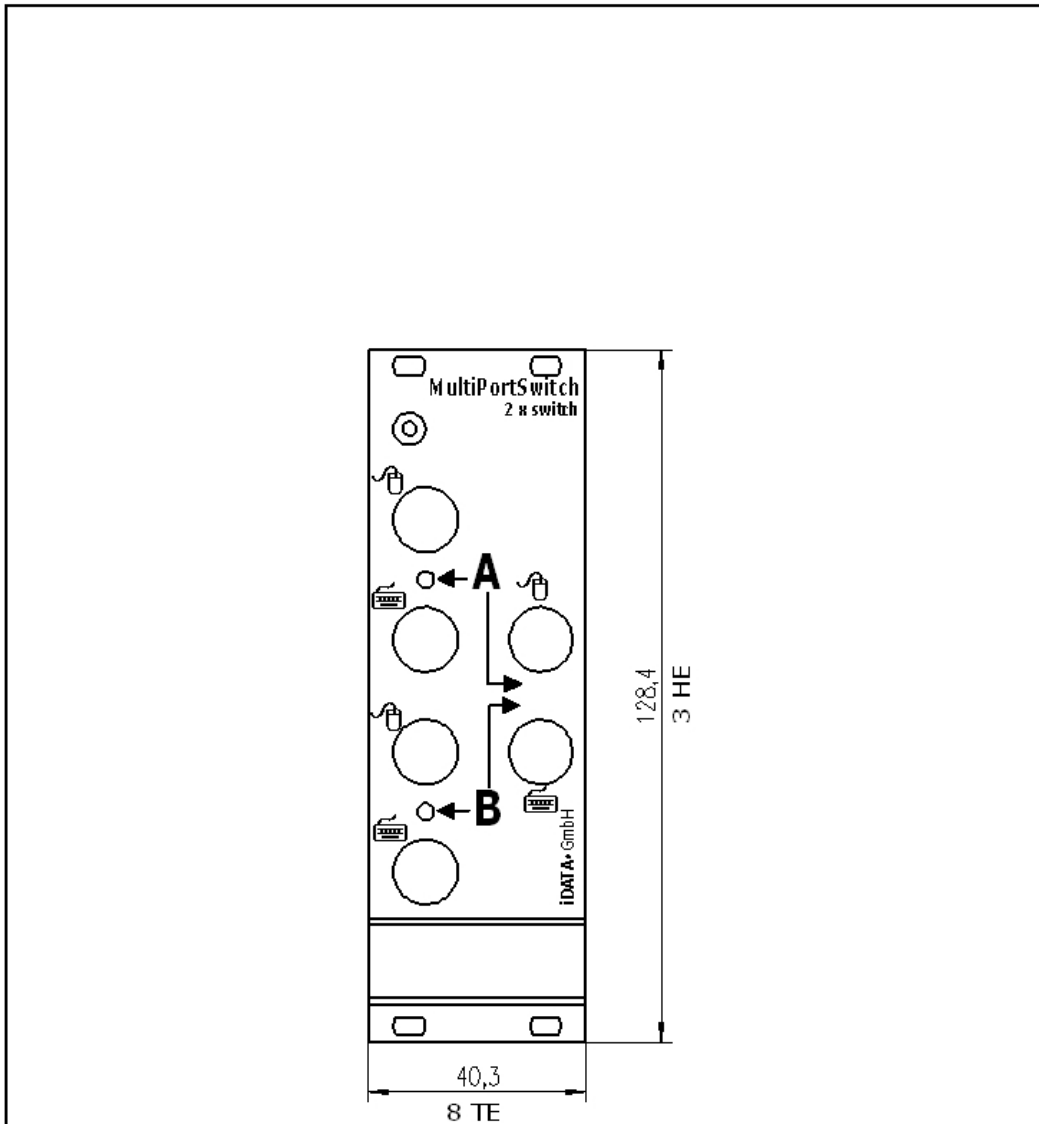
### 3.8 Idle state

Data channel (**A** ↔ **Common**) is activated - **independent** of the current switch setting - when the Keyboard/Mouse change-over switch is in idle state

## 3.9 Warranty

The Keyboard/Mouse change-over switch is provided with a 36 month bring-in warranty. All damage caused by improper handling is exempt from that warranty

## 4 Illustration: Front cover



com\_8te\_Frontplatte\_Keyb\_Mouse\_Datenblatt.doc

iData GmbH Stornberger Straße 22 82131 Gauting Tel. 089/893565 - 0				Maßstab 1:1		(Gewicht)
			Datum	Name	Frontplatte für Keyb.-Mouse - Umschalter nur für Laser	
		Bearb.	03.03.2003	Wupp.		
		Gepr.				
		Norm				
						Blatt
						Blätter
Zust.	Änderung	Datum	Name	Urspr.	Ers. für:	Ers. durch: