

# K-LINE **K107A**

RS485 Isolator / Repeater Line

**K-LINE**

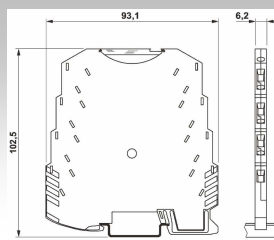
Serial Converters



- ▶ **FUNCTION:** Repeater, for potential separation and range increase in RS-485 2 wire bus systems
- ▶ Galvanic isolation at 3-way
- ▶ Spring-cage terminal block and/or DIN bus connection system
- ▶ Power bridging terminal - DIN rail bus connector
- ▶ Tiny dimensions (102,5 x 93,1 x 6,2 mm)

## TECHNICAL DATA

### K107A – RS485 Isolator / Repeater Line



### ORDER CODES

**K107A** RS485 Isolator / Repeater Line

#### Accessories

**K-BUS** Expandable power supply connector

**K-SUPPLY** Power Supply module with surge protection

### GENERAL FEATURES

<b>Power supply</b>	19,2...30 Vdc
<b>Status indicators</b>	- Data presence on X port - Data presence on Y port - Inverted connection on X port - Inverted connection on Y port
<b>Handshake</b>	Timed automatic
<b>Speed</b>	1200...115200 bps
<b>Configuration</b>	By dip-switches
<b>Other functions</b>	X or Y side terminator, X->Y or Y->X communication direction inhibition
<b>Galvanic Isolation</b>	Power X port // Y port // power supply, digital
<b>Hot swapping</b>	Yes
<b>Power consumption</b>	500 mW
<b>Humidity</b>	30..90% a +40°C (not condensing)

<b>Design</b>	Terminal housing for mounting on 35 mm DIN 46277
<b>DIP Switch</b>	- Direction changing - Line termination - Transmission speed
<b>Dimensions</b>	6,2 x 93,1 x 102,5 mm (w x h x d)
<b>Weight</b>	50 g
<b>Operating temperature</b>	-20...+65 °C
<b>Connections</b>	Plug-in screw clamp terminal blocks, wires up to 2.5 mm <sup>2</sup>
<b>IP Protection</b>	IP 20
<b>Standards</b>	EN50081-2 EN50082-2 EN61010-1
<b>Approvals</b>	CE, UI-CSA

### X SIDE PORT

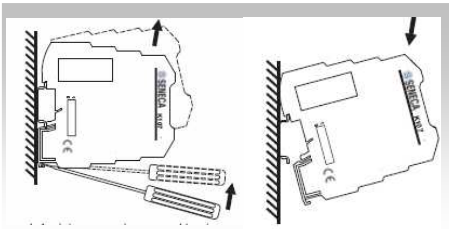
**RS485** half duplex  
Capacity: 31 standard nodes  
Dip switch for termination resistor  
Protection: up to 30 Vdc

### Y SIDE PORT

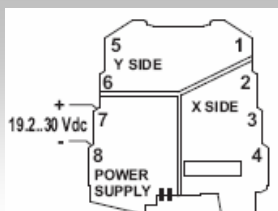
**RS485** half duplex  
Capacity: 31 standard nodes  
Dip switch for termination resistor  
Protection: up to 30 Vdc

## DIMENSIONS AND INSTALLATION

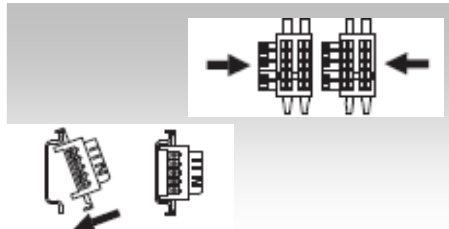
### Inserting / Extracting module on DIN guide



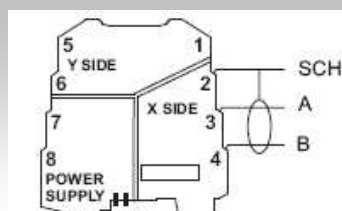
Power supply



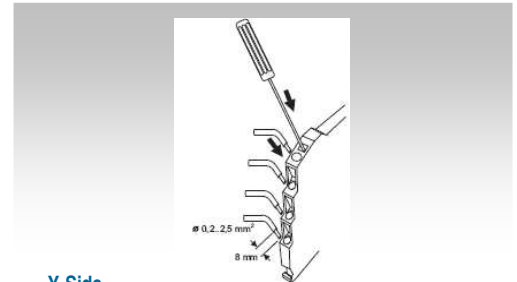
### Expandable connector K-BUS



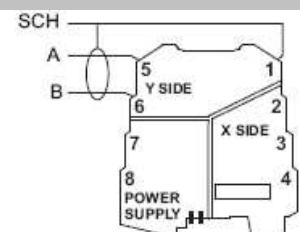
X-Side



### Cage clamp connection



Y-Side



# K-LINE **K107B**

RS232 ↔ RS485 Serial Converter

**K-LINE**

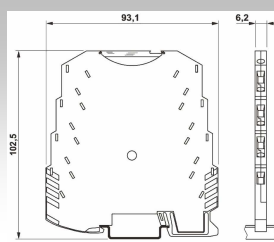
Serial Converters



- ▶ FUNCTION: Interface converter RS-232 ↔ RS-485
- ▶ Speed selectable from 1.200 to 115.200 bps
- ▶ Galvanic isolation @ 3-way
- ▶ Spring-cage terminal block and/or DIN bus connection system
- ▶ Power bridging terminal - DIN rail bus connector
- ▶ Tiny dimensions (102,5 x 93,1 x 6,2 mm)

## TECHNICAL DATA

### K107B – RS232 ↔ RS485 Serial Converter



### ORDER CODES

**K107B** RS232 ↔ RS485 Serial Converter

#### Accessories

**K-BUS** Expandable power supply connector

**K-SUPPLY** Power Supply module with surge protection

### GENERAL FEATURES

<b>Power supply</b>	19,2...30 Vdc
<b>Status indicators</b>	- Data presence on X port - Data presence on Y port - Inverted connection on X port - Inverted connection on Y port
<b>Handshake</b>	Timed automatic
<b>Speed</b>	1200...115200 bps
<b>Configuration</b>	By dip-switches
<b>Other functions</b>	X or Y side terminator, X->Y or Y->X communication direction inhibition
<b>Galvanic Isolation</b>	Power X port // Y port // power supply, digital 1500Vac
<b>Hot swapping</b>	Yes
<b>Power consumption</b>	500 mW
<b>Humidity</b>	30..90% a +40°C (not condensing)

<b>Design</b>	Terminal housing for mounting on 35 mm DIN 46277
<b>DIP Switch</b>	- Direction changing - Line termination - Transmission speed
<b>Dimensions</b>	6,2 x 93,1 x 102,5 mm (w x h x d)
<b>Weight</b>	50 g
<b>Operating temperature</b>	-20...+65 °C
<b>Connections</b>	Plug-in screw clamp terminal blocks, wires up to 2.5 mm <sup>2</sup>
<b>IP Protection</b>	IP 20
<b>Standards</b>	EN50081-2 EN50082-2 EN61010-1
<b>Approvals</b>	CE, UI-CSA

### X SIDE PORT

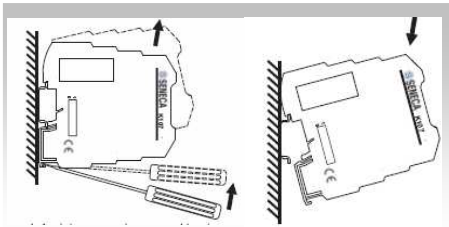
**RS232**  
Capacity: 31 standard nodes  
Dip switch for termination resistor  
Protection: up to 30 Vdc

### Y SIDE PORT

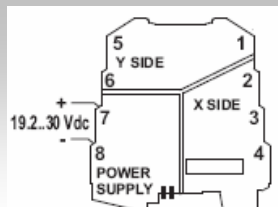
**RS485** half duplex  
Capacity: 31 standard nodes  
Dip switch for termination resistor  
Protection: up to 30 Vdc

### DIMENSIONS AND INSTALLATION

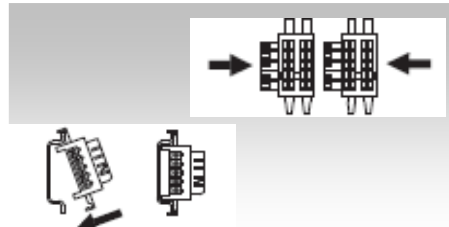
#### Inserting / Extracting module on DIN guide



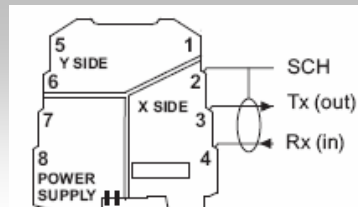
#### Power supply



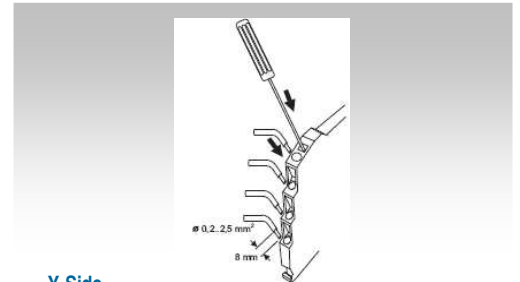
#### Expandable connector K-BUS



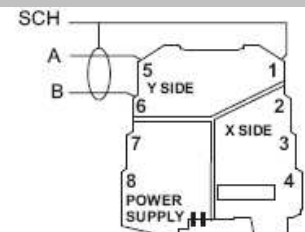
#### X-Side



#### Cage clamp connection



#### Y-Side



# K-LINE

## K107USB-S107USB

USB ↔ RS485 Asynchronous Converter

**K-LINE**

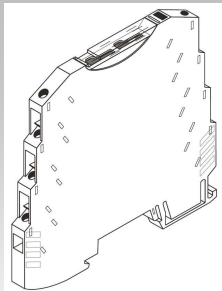
Serial Converters



- ▶ **FUNCTION:** Connect an RS-485 Network to the USB Port
- ▶ Speed selectable from 1.200 bps to 250 Kbps
- ▶ Compatible with standard USB 1.1 and 2.0
- ▶ Drivers available for Windows 98, 2000 and XP
- ▶ Galvanic isolation @ 1500 V
- ▶ Spring-cage terminal block and/or DIN bus connection system (K107USB) and portable version (S107USB)

## TECHNICAL DATA

### K107USB-S107USB – USB ↔ RS485 Asynchronous Converter



#### ORDER CODES

<b>K107USB</b>	USB ↔ RS485 Asynchronous Converter (Din rail mounting)
<b>S107USB</b>	USB ↔ RS485 Asynchronous Converter (portable)
<b>Accessories</b>	USB cable and drivers -included

#### GENERAL FEATURES

<b>Power supply</b>	By USB port of the pc
<b>Status indicators</b>	- Power - Rx - Tx
<b>Standard</b>	USB 1.1 and 2.0
<b>Speed</b>	1200bps...250 Kbps
<b>Software</b>	Compatible with Windows 98, 2000, XP
<b>Galvanic Isolation</b>	1500 V between RS485 ↔ USB
<b>Current consumption</b>	60 mA
<b>Humidity</b>	30..90% a +40°C (not condensing)

<b>DIP Switch</b>	- Direction changing - Line termination - Transmission speed
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<b>Dimensions</b>	K107USB - 6,2 x 93,1 x 102,5 mm (w x h x d) S107USB - 6,2 x 93,1 x 102,5 mm
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<b>Operating temperature</b>	-0..+55 °C
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<b>IP Protection</b>	IP 20
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<b>Standards</b>	EN50081-2 EN50082-2 EN61010-1
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<b>Approvals</b>	CE, UL-CSA (only for K107USB)
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#### USB SIDE

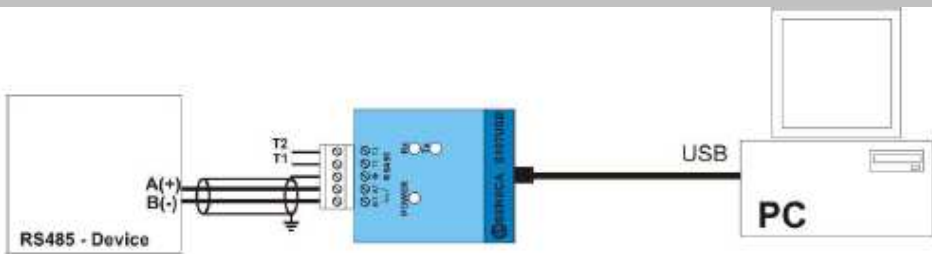
**USB**  
Complete of cable: USB A and MINI USB B

#### RS485 SIDE

**RS485**  
K107USB: Plug-in screw clamp terminal blocks, wires up to 2.5 mm<sup>2</sup>  
S107USB: 5 poles connector

#### INSTALLATION

##### S107USB



##### K107USB

