

K-LINE **K107A**

RS485 Isolator / Repeater Line

K-LINE

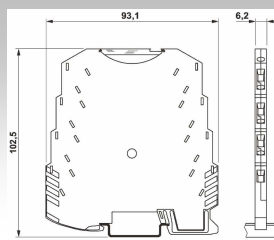
Serial Converters



- ▶ 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

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

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

X SIDE PORT

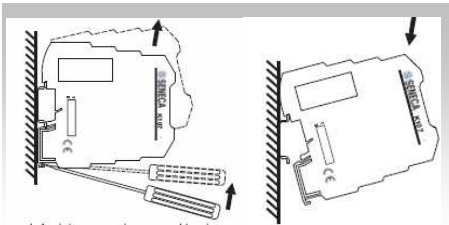
RS485 half duplex
Capacity: 31 standard nodes
Dip switch for termination resistor
Protection: up to 30 Vdc

Y SIDE PORT

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

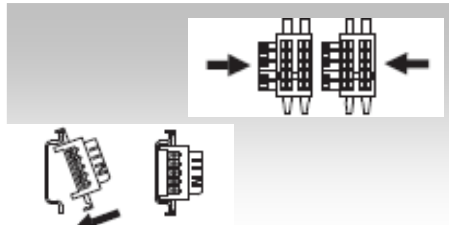
DIMENSIONS AND INSTALLATION

Inserting / Extracting module on DIN guide



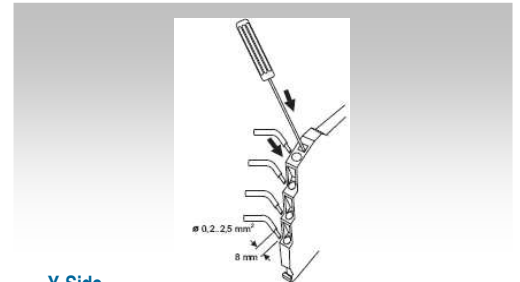
Power supply

Expandable connector K-BUS

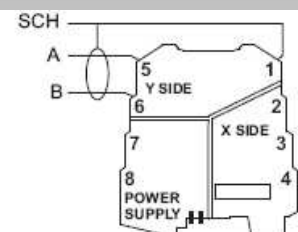
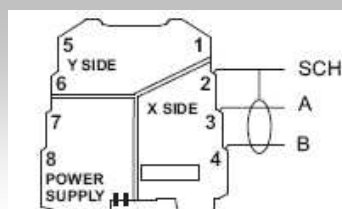
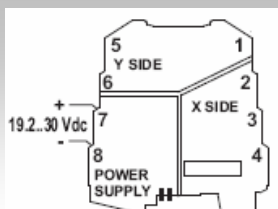


X-Side

Cage clamp connection



Y-Side



K-LINE **K107B**

RS232 ↔ RS485 Serial Converter

K-LINE

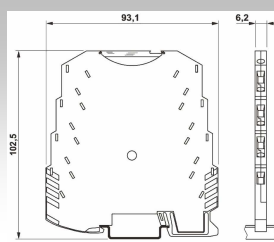
Serial Converters



- ▶ **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

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

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

X SIDE PORT

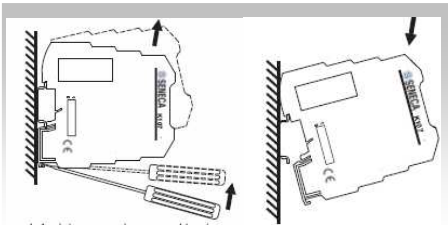
RS232
Capacity: 31 standard nodes
Dip switch for termination resistor
Protection: up to 30 Vdc

Y SIDE PORT

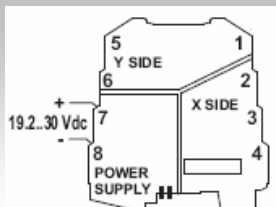
RS485 half duplex
Capacity: 31 standard nodes
Dip switch for termination resistor
Protection: up to 30 Vdc

DIMENSIONS AND INSTALLATION

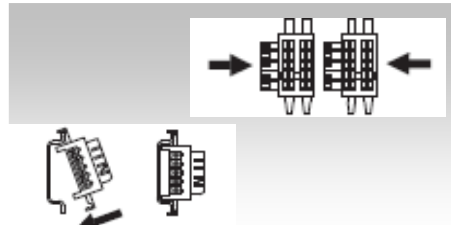
Inserting / Extracting module on DIN guide



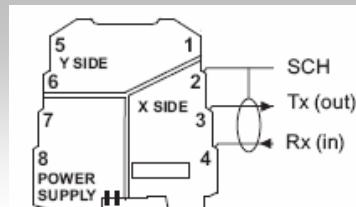
Power supply



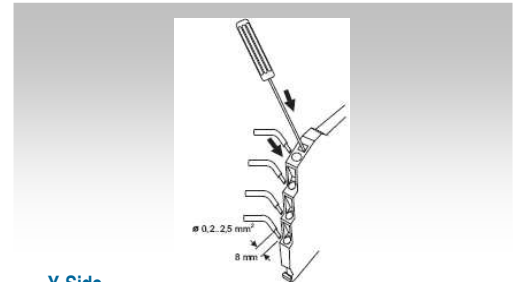
Expandable connector K-BUS



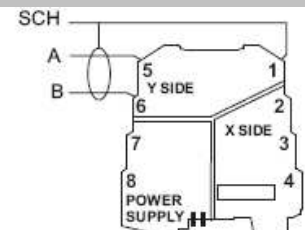
X-Side



Cage clamp connection



Y-Side



K-LINE

K107USB-S107USB

USB ↔ RS485 Asynchronous Converter

K-LINE

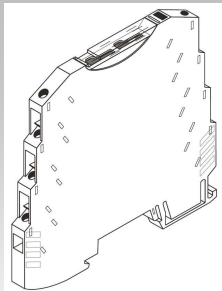
Serial Converters



- ▶ 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

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

GENERAL FEATURES

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

DIP Switch	- Direction changing - Line termination - Transmission speed
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Dimensions	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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Operating temperature	-0..+55 °C
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IP Protection	IP 20
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Standards	EN50081-2 EN50082-2 EN61010-1
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Approvals	CE, UL-CSA (only for K107USB)
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USB SIDE

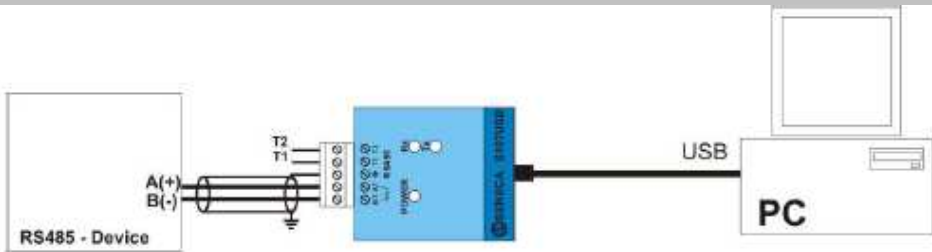
USB
Complete of cable: USB A and MINI USB B

RS485 SIDE

RS485
K107USB: Plug-in screw clamp terminal blocks, wires up to 2.5 mm²
S107USB: 5 poles connector

INSTALLATION

S107USB



K107USB

