

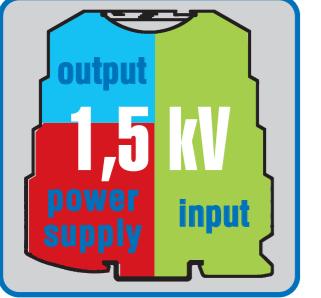
## FEATURE HIGHLIGHTS

## PRECISION



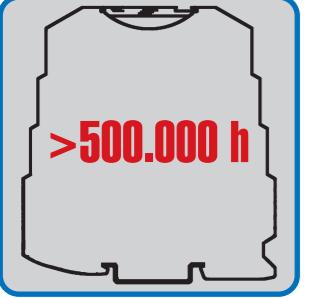
- Precision class 0.1%
- Resolution @ 14 bit

## ISOLATION



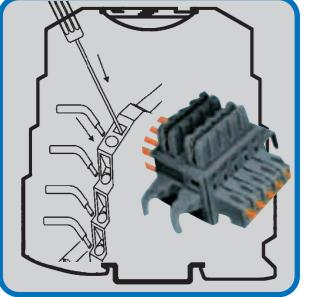
- Digital Optocoupler
- 3 way isolation @ 1.5 kVac (50 Hz, 1min)
- Digital decoupling of input signal
- Protection circuit against output overcurrent

## RELIABILITY



- High MTBF
- 160 components

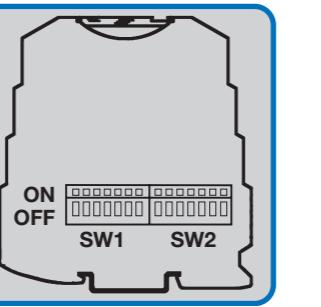
## CONNECTIONS



- Cage clamp connectors
- Expandable K-bus connector on DIN rail guide 35 mm

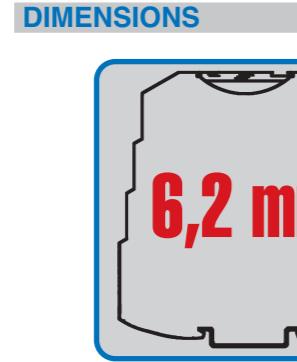
## PRECISION

## CONFIGURATION



- Setup via DIP Switches

## ISOLATION



- Tiny dimensions
- 6,2 mm width

## RELIABILITY



- Direct supply on the spring-cage terminal block
- Distributed SMART SUPPLY by 2 slots K-BUS and K-SUPPLY

## CONNECTIONS



- Max current consumption: 25 mA (24 Vdc)
- Current consumption without load at 25°C: 7,5 mA
- Max power consumption: 500 mW

## CONFIGURATION

## DIMENSIONS

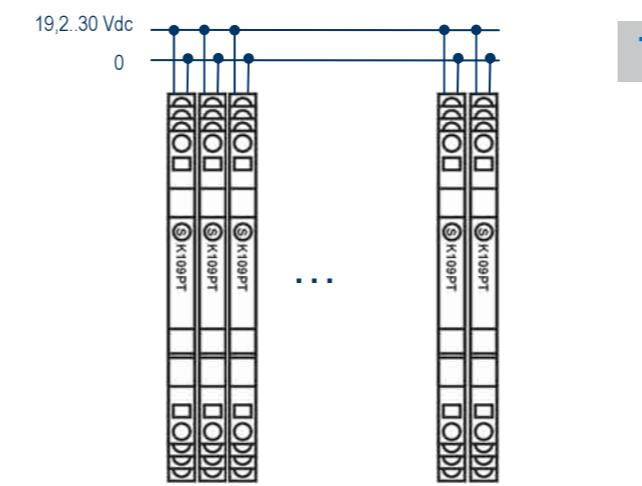
## POWER SUPPLY

## CONSUMPTION

## POWER SUPPLY TECHNIQUES

K Line signal conditioners can be powered in 3 different ways: by the spring-cage terminal block (24 Vdc direct from power supply) or by SMART SUPPLY system. SMART SUPPLY system is based on expandable KBUS connector. Up to 16 devices, the distribution of power supply is possible connecting a single device at voltage source, as whole consumption doesn't exceed 400 mA. Over 16 and up to 75 devices, with maximum current consumption of 1,6 A (approx 21 mA per module), it's needed K-SUPPLY module that gets overvoltages protections on-board.

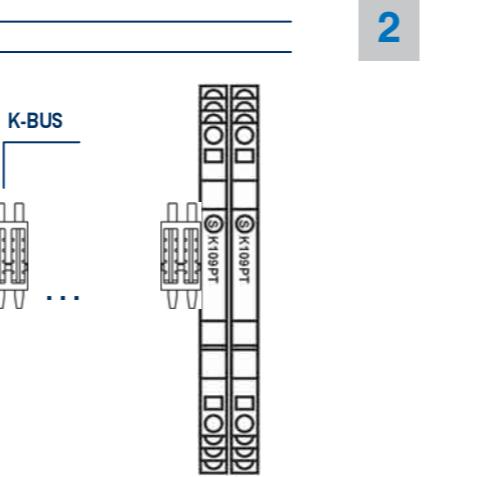
## POWER SUPPLY ON SPRING-CAGE TERMINAL



1

## SMART SUPPLY SYSTEM

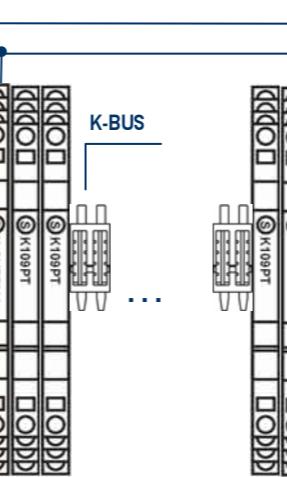
Distributed supply with 2 slot connector K-BUS (up to 16 modules)



2

## SMART SUPPLY SYSTEM

Distributed supply with K-SUPPLY module and K-BUS (up to 75 modules)



3

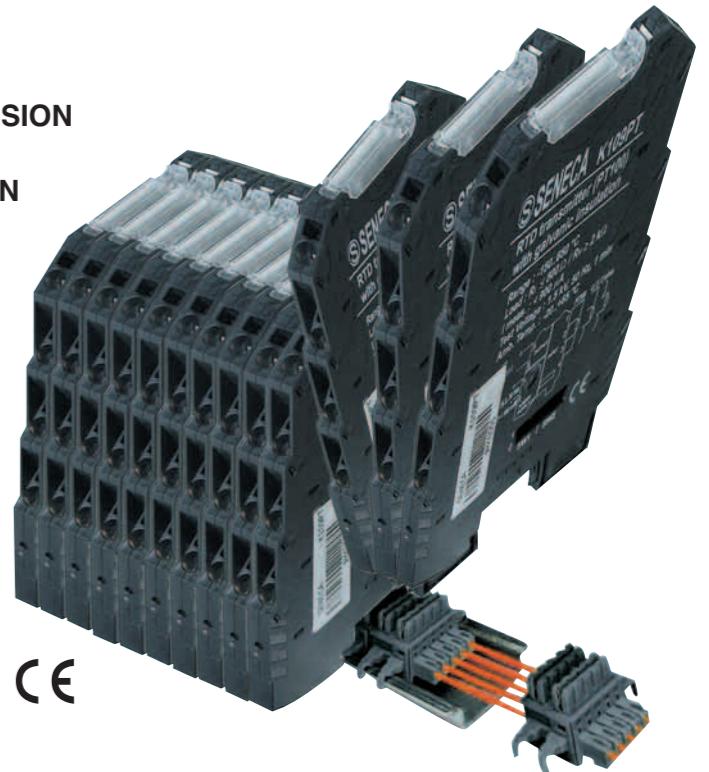
## ORDER CODES AND CONFIGURATIONS

DESCRIPTION	VERSIONS / ORDER CODE
Pt100 converter	K109PT100
Pt1000 converter	K109PT1000
Thermocouple converter with settable threshold	K109TC
Galvanic isolator - voltage / current converter	K109UI
Galvanic isolator with active output	K109S
Shunt converter	K109SH
RS485 / RS485 serial repeater	K107A
RS232 / RS485 serial converter	K107B
RS485 / USB serial converter	K107USB
Expandable power supply connector	K-BUS
Power Supply module with surge protection	K-SUPPLY

# K-LINE

Compact converters 6,2 mm normalized case

- GALVANIC ISOLATION
- TEMPERATURE CONVERSION
- ANALOGUE CONVERSION
- SERIAL CONVERSION



CE

- Resolution @ 14 bit
- Precision class 0.1%
- 3 way isolation
- Tiny dimensions (102,5 x 93,1 x 6,2 mm)
- Spring-cage terminal block and/or DIN bus connection system
- Power bridging terminal - DIN rail bus connector
- Easy installation and maintenance
- Setup via DIP Switches
- Low power consumption
- Digital decoupling of input signal
- Protection circuit against output overcurrent

