



DATA SHEET — QUICK INSTALLATION GUIDE
ISOLATOR FOR SENSOR 4-20mA SOURCE / OUTPUT SINK



- ◆ PROTECTED AGAINST INPUT OVERCURRENTS
- ◆ SMALL SPACE OCCUPATION
- ◆ INPUT / OUTPUT ISOLATION 3000V
- ◆ INPUT / POWER SUPPLY ISOLATION 3000V
- ◆ 4-20mA PASSIVE (SINK) OUTPUT (2 WIRES)
- ◆ PLUG-IN TERMINALS
- ◆ VERSION WITH TWO CHANNELS : **KOS528A-DUAL**



DESCRIPTION

The 2-way isolators for 4/20mA signals, with 1 or 2 (DUAL version) channels, galvanically isolate and decouple measurement circuits.

Galvanic separation protects against overvoltage destruction and inductive and capacitive interferences.

They can function as an isolator-adaptor from active to passive loops.

They are protected at their inputs against overcurrents and overvoltages by resettable protectors.

Coded plug-in terminals that allow quick module changes and protect against mistakes.



KOS528A



KOS528A-DUAL

TECHNICAL SPECIFICATIONS

INPUT

Current 4-20mA (source sensor)
 Input impedance (with protection) 190Ω
 Overcurrent protection max 500mA
 Input current limitation 40mA
 Protected against reverse polarity

ACCURACY

Overall maximum error 0.05%
 Linearity error <0.03%
 Thermal drift 0.4μA/°C

OUTPUT

Current 4-20mA (2 wires sink)
 Typical load capacity (24V) 800Ω
 Typical load capacity (12V) 200Ω
 Maximum load 100Ω (30VDC)
 Current limitation 25 mA

ISOLATION

Insulation voltage input / output 3000VAC
 Insulation voltage input / supply 3000VAC
 Channel 1 / Channel 2 (KOS528-DUAL) 3500VAC

POWER SUPPLY

Protected against reverse polarity
 Typical output loop supply voltage 24VDC
 Supply voltage range 10 to 32VDC
 Maximum consumption 25mA

ENVIRONMENTAL CONDITIONS

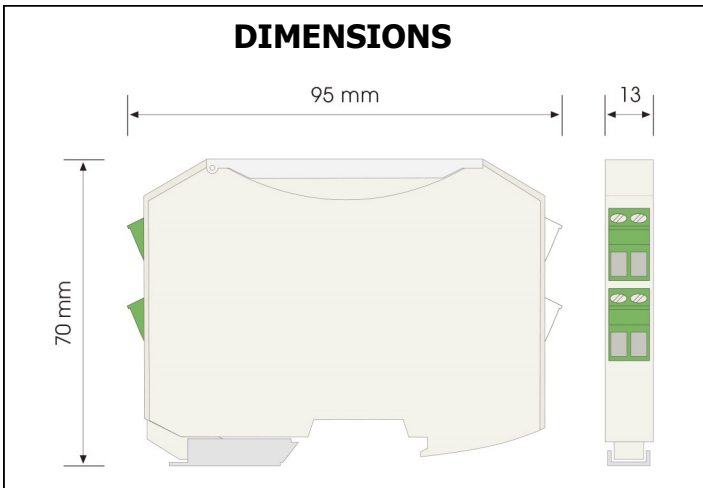
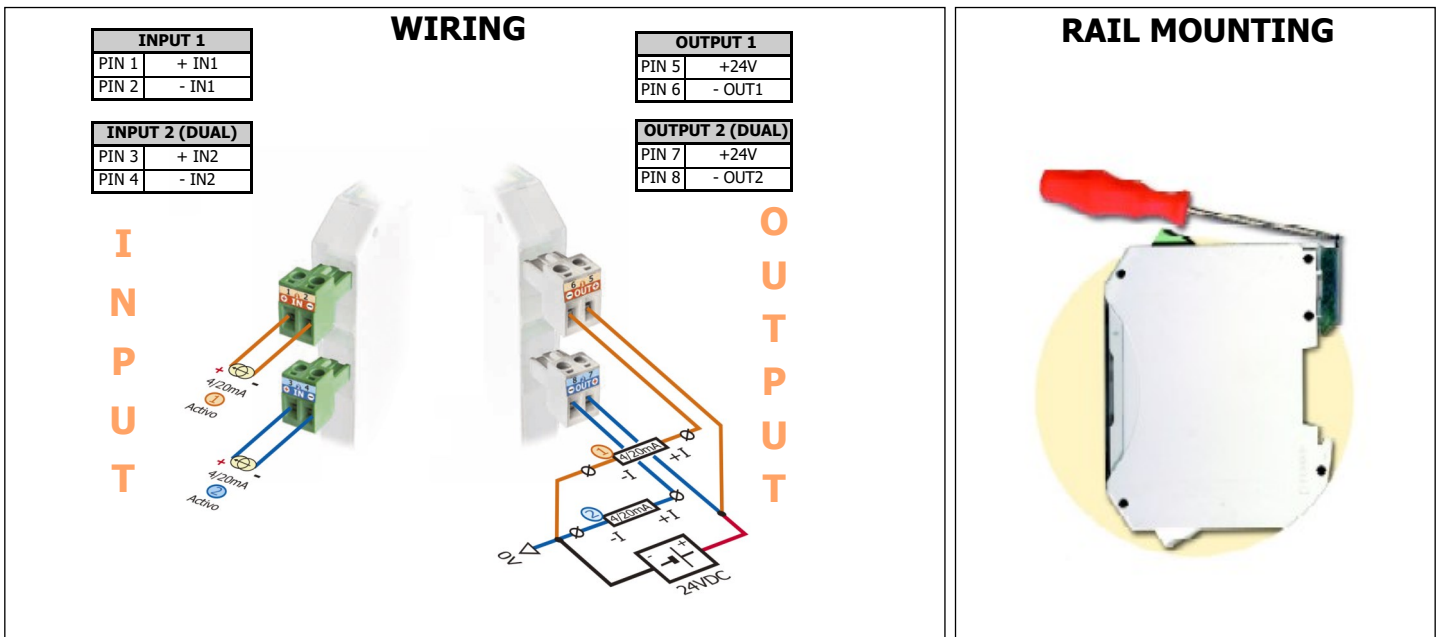
Operating temperature -25°C to +70°C
 Storage temperature -50°C to +105°C
 Warm-up time 5 minutes
 Temperature coefficient 35ppm / °C

FORMAT

Protection IP20
 Box Material Polyamide PA6.6
 Weight (1 Channel / 2 Channels) 40g / 70g
 UL Combustibility V0
 Mounting rail EN50022

WIRING

Screw terminals M3 torque 0.5Nm
 Connection cable ≤2.5mm² (12AWG)



CE Conformity.

Directives	EMC 2014/30/EU	LVD 2014/35/EU
Standarts	EN 61000-6-2 EN 61000-6-3	EN 61010-1

ATTENTION: If this instrument is not installed and used in accordance with these instructions, the protection it provides against hazards may be impaired.

To meet the requirements of EN 61010-1, where the unit is permanently connected to the main power supply, it is mandatory to install a circuit-breaking device easily accessible to the operator and clearly marked as a disconnect device.

According to 2012/19/EU Directive, You cannot dispose of it at the end of its lifetime as unsorted municipal waste. You can give it back, without any cost, to the place where it was acquired to proceed to its controlled treatment and recycling.