

Technical Documentation

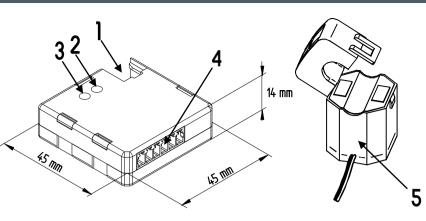
MAIN FEATURES

- Reduced size: 45 x 45 x 14mm (without terminal block).
- Suitable for single-phase or three-phase installations.
- 3 channels.
- Specific accessory: Split current transformer (ZN1AC-CST60).
- Installation with ease, not modifications needed.
- Instant power (KW) and Energy (KWh) measurements.
- Monetary and CO2 emissions conversion.
- Allows KNX system clock synchronization.
- KNX BCU integrated.
- CE directives compliant.

Programming button: push button to set the programming mode. If this button is held while plugging the device into the KNX bus, it goes into secure mode.

Programming LED: programming mode indicator (red). When the device goes into secure mode, it blinks every 0,5 seconds.

GENERAL SYSTEM SPECIFICATIONS		
Type of device		Electric Operation Control Device
KNX Supply	Voltage	29V DC SELV
	Voltage range	2131V DC
	Power consumption	10mA
	Bus connection	Typical BUS connector TP1, 0.50mm2 section
Ambient temperature		0°C to +45°C
Storage temperature		-20°C to +70°C
Ambient humidity		30 to 85% RH (no condensation)
Storage humidity (relative)		30 to 85% RH (no condensation)
Complementary characteristics		Class B
Safety class		11
Operation type		Continuous operation
Device action type		Туре 1
Electrical solicitations period		Long
Type of protection		IP20
Assembly		Independent control assembly device
Power failure response (bus)		Data saving
Response when restarting (bus)		Data recovering
Operation indication		Programming LED indicates programming mode (lighting) and safe mode (blinking).
PCB CTi index		175 V
Enclosure		PC+ABS FR V0 halogen free



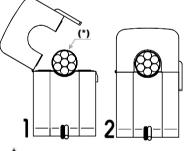
1 - KNX	2 - Programming
Connector	LED

3 - Programming button

4 - 6-pin terminal block connector

5- Accessory ZN1AC-CST60

INPUTS SPECIFICATIONS AND CONNECTIONS Method of measurement Induction Number of channels Up to 3 Connection type Terminal block (screw) Split current transformer (ZN1AC-Reference CST60). Not included 22 AWG (0.33 mm²) / halogen free Cable section/type 0.3A - 60A (each current Current range transformer) Specific Resolution 10W accessory Error 5% maximum Max. diameter Ø 9.5 mm primary wire (*) Length of cable 1.8m (not extensible)



Easy installation

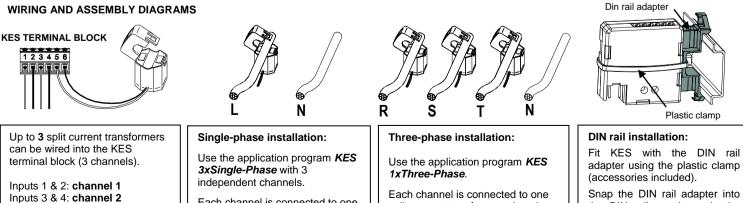
Important: connect the split current transformer to the KES terminal block before closing the clamp around the phase wire.

1) Open the clamp of the Split current transformer and place around the phase wire or primary wire.

2) Close the clamp of the Split current transformer.

SAFETY INSTRUCTIONS

- Do not connect Main Voltage (230 V) or any other external voltages to any point of the BUS or KES. Connecting an external voltage might put the entire KNX system at risk.
- To be installed indoor, by qualified electricians.



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Inputs 5 & 6: channel 3

Each channel is connected to one split current transformer, placed around one single-phase wire.

split current transformer, placed around one of the each three-phase wires.

Further information: www.zennio.com

figure.

the DIN rail as shown in the

Edition 3