ZCLSG TECHNICAL DOCUMENTATION

FEATURES

- Bidirectional communication with Samsung HVAC units
- 2 analog/digital inputs
- 10 logic functions
- Total data saving on KNX bus failure
- Integrated KNX BCU
- Dimensions 67 x 90 x 35 mm (2 DIN units)
- DIN rail mounting (EN 50022), with fixing clamp
- Conformity with CE directives (CE-mark on the right side)

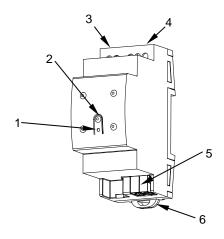


Figure 1: KLIC-SG

Programming LED	Programming button	3. 2-wire communication with HVAC unit
4. Inputs	KNX bus connector	6. Fixing clamp

Programming button: short press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode.

Programming LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash. The HVAC unit communication error is notified through a green light and the wrong acknowledgement error through a green blinking sequence. In addition, the standby status will be indicated by a green blink every 3 seconds.

GENERAL S	SPECIFICATION	ONS			
CONCEPT		DESCRIPTION			
Type of device		Electric operation control device	Electric operation control device		
	Voltage (typical)		29VDC SELV	29VDC SELV	
IAN amaka	Voltage range		2131VDC	2131VDC	
	Maximum	Voltage	mA	mW	
KNX supply		29VDC (typical)	5	145	
	consumption	24VDC ¹	10	240	
	Connection ty	ре	Typical TP1 bus connector for 0	Typical TP1 bus connector for 0.80mm Ø rigid cable	
External power	er supply		Not required	Not required	
Operation ten	nperature		0°C +55°C		
Storage temp	erature		-20°C +55°C	-20°C +55°C	
Operation hu	Operation humidity		5 95%	5 95%	
Storage humi	Storage humidity		5 95%	5 95%	
Complementa	Complementary characteristics		Class B		
Protection cla	Protection class		III		
Operation type		Continuous operation	Continuous operation		
Device action type		Type 1			
Electrical stress period		Long			
Degree of protection		IP20, clean environment	IP20, clean environment		
Installation		Independent device to be mount 50022)	Independent device to be mounted inside electrical panels with DIN rail (EN 50022)		
Minimum clea	Minimum clearances		Not required	Not required	
Response on	Response on KNX bus failure		Data saving according to parame	Data saving according to parameterization	
Response on	KNX bus restar	t	Data recovery according to parameterization		
Operation indicator		The programming LED indicate communication error (green), error	The programming LED indicates programming mode (red), HVAC unit communication error (green), error due to wrong acknowledgement (green blinking sequence) or standby status (green blink every 3 seconds)		
Weight			77g		
	PCB CTI index		175V		
Housing mate	Housing material		PC FR V0 halogen free	PC FR V0 halogen free	
NA		ret-case scenario (KNY Fa			

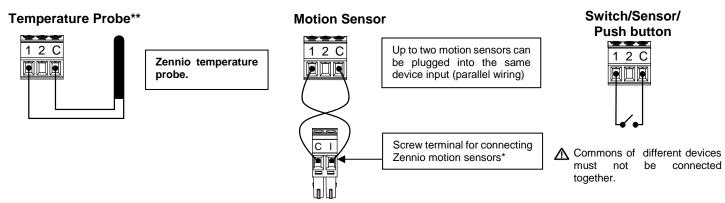
¹ Maximum consumption in the worst-case scenario (KNX Fan-In model).

INPUTS SPECIFICATIONS AND CONNECTIONS		
CONCEPT	DESCRIPTION	
Number of inputs	2	
Inputs per common	2	
Operation voltage	+3.3VDC in the common	
Operation current	1mA @ 3.3VDC (per input)	
Switching type	Dry voltage contacts between input and common	
Connection method	Screw terminal block	
Cable cross-section	0.5-2.5mm ² (IEC) / 26-12AWG (UL)	
Maximum cable length	30m	
NTC probe length	1.5m (extensible up to 30m)	
NTC accuracy (@ 25°C) ²	±0.5°C	
Temperature resolution	0.1°C	
Maximum response time	10ms	

² For Zennio temperature probes.

INPUTS CONNECTION

Any combination of the following accessories is allowed in the inputs:

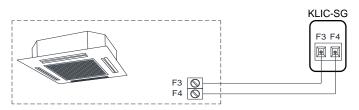


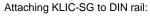
^{*} In case of using ZN1IO-DETEC-P sensor, its micro switch number 2 must be in Type B position.

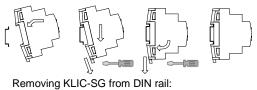
^{**}Zennio temperature probe or any NTC with known resistance values at three points in the range [-55, 150°C].

HVAC EQUIPMENT CONNECTION SPECIFICATION AND CONNECTIONS		
CONCEPT	DESCRIPTION	
Maximum cable length	100m	
Connection method	Screw terminal block	
Cable cross-section	0.5-2.5mm ² (IEC) / 26-12AWG (UL)	

WIRING DIAGRAM













SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at https://www.zennio.com/en/legal/weee-regulation.
- This device contains software subject to specific licences. For details, please refer to http://zennio.com/licenses.