INS-081

9 inputs device
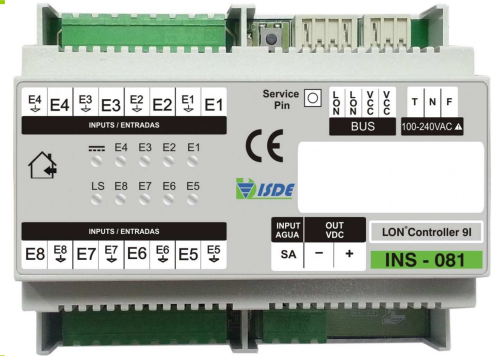
- 9 digital inputs Lonmark certified device.
- Typical applications: lighting and blinds for industrial and home automation.
- Special purpose mode for electrical panel feedback.
- Power supply range: 12 – 24 VDC
- 8 potential free inputs, 1 special purpose comparator input.

- LonMark functional profiles:

0	Nodeobject
1060	occupancySensor
3071	occupancyController
3200	switch

- Neuron FT5000 @ 80Mhz
- Firmware F2A2100L01001
- Program ID 80:00:E1:20:00:05:04:04

FEATURES

ELECTRICAL		
Power Supply		100-264 VAC
		12-24 VDC
Frequency (AC Supply source)		50-60 Hz
Overvoltage protection		Transil diode
Overload protection		PTC
Power consumption		<200 mW
Output VDC	Supplied with 100-240 AC	250 mA @ 12VDC
	Supplied with 12-24VDC	150 mA @ 12-24VDC
INPUTS		
Digital input		8 x Voltage free schmitt trigger input
Comparator input		1 x Comparator for special purpose
COMMUNICATIONS		
Type		LonWorks (ISO/IEC 14908-2)
Transceiver		FT-X3
Channel		FTT-10 (78 KBps)
INDICATORS		
Power		Led diode
Inputs state		Led diodes
ENCLOSURE		
Mounting		DIM rail 6U
Dimensions (milimeters)		107 x 90 x59
Colour		White
Protection level		IP 20
ENVIRONMENTAL		
Operating temperature		-20ºC..70ºC, 50ºF..104ºF
Storage temperature		-30ºC..70ºC, 50ºF..140ºF
Relative humidity		0%..90% Non-condensing

Occupancy Sensor 1060

Network Variables — NvoOccup SNVT_occupancy

Configuration Properties
SCPTheartbeat
SCPTdebounce

Occupancy Controller # 3071

nviOccupancy SNVT_occupancy — nvoLampValue SNVT_switch
nviSetting SNVT_setting — nvoSetting SNVT_setting

SCPTholdTime
SCPTmaxSendTime
SCPTprimeVal
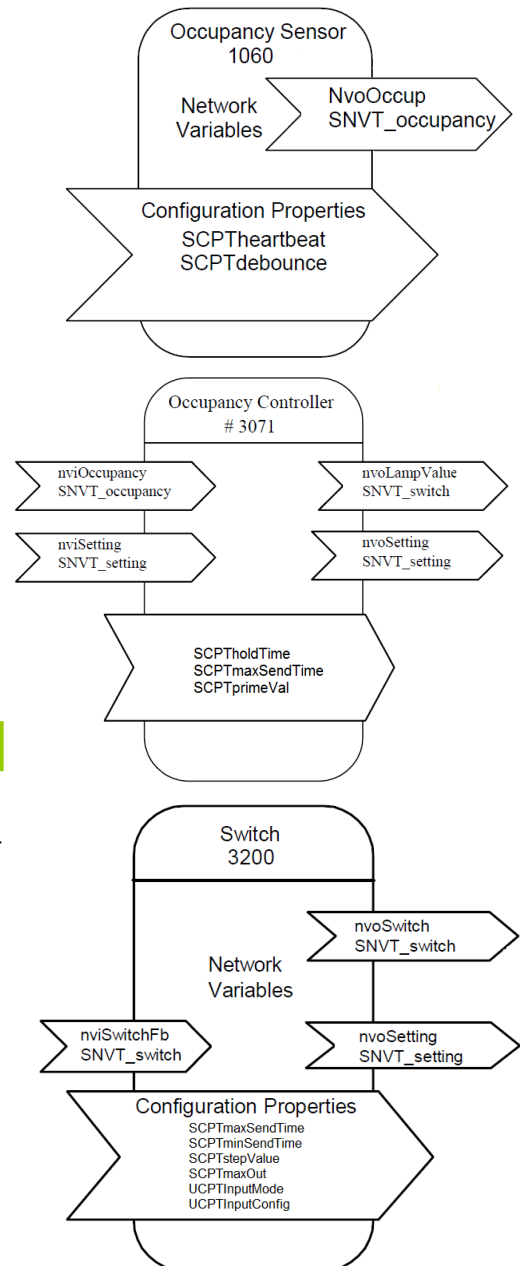
TECHNICAL INFORMATION

INS-081 is a DIN-6U rail mounting device suitable for lighting and blinds applications, with led indicator for each of the schmitt trigger input and one additional comparator input indicated for water leak sensor.

It is a LonMark certified device according to the Interoperability Guidelines Version 3.4, with Lonmark profiles #0 (NodeObject), #1060 (occupancySensor), #3071 (occupancyController) and #3200 (switch).

INS-081 has special mode functionality in order to monitor free potencial inputs, typically used in electrical panels monitoring.

Switch 3200

nvoSwitch SNVT_switch

Network Variables

nviSwitchFb SNVT_switch — nvoSetting SNVT_setting

Configuration Properties
SCPTmaxSendTime
SCPTminSendTime
SCPTstepValue
SCPTmaxOut
UCPTInputMode
UCPTInputConfig

ORDERING INFORMATION

INS-081F

Manufacturer specific configuration properties (ISDE UCPTs)

There are two UCPTs added to switch functional block in order to achieve the full device functionality, they can be used as follows:

UCPTinputMode

Value	Description
0	Normal open input state
1	Normal close input state

UCPTinputConfig

Value	Description
0	Just sends SET_ON and ncimaxout when active
1	Just sends SET_OFF and 0,0 0 when active
2	Toggle from last state with feedback (optional)
3	Dimmer with feedback (optional)
4	Special mode for electrical panels monitoring

Related products

	INS-461	**LonWorks I/O controller** 6 inputs + 1 special input + 4 outputs device with real time clock and scheduler suitable for home and industrial automation.
	INP-121	**LonWorks access control manager** Suitable for access control applications, up to 2 Wiegand26 card readers for two access points.
	CSA-100	**Water leak sensor** Compatible with INS-081 node.
	ITPIR-100H	**LonWorks HVAC controller** Fancoil and heat pump controller with 3 inputs (Door, window and card holder) and a motion sensor detector for a complete HVAC solution.
	INS-360	**Lonworks Dimmer** DIN-6U device with 3 analog channels (0-10V) and 6 inputs for a complete lighting solution.