



## RJ1SNUD and RJ856UD Series

SINGLE-POSITION SENSORNET  
AND RS-422 J-BOX



These weather-tight, single-position J-Boxes provide Class 2 LPS power and data communications for one programmable dome or one dome and outdoor dome housing. Each J-Box contains a single input—either SensorNet or RS-422—that receives data from the compatible controller and feeds that data to the dome.

The J-Boxes meet the Class 2 power requirements of the SpeedDome Ultra/Optima outdoor housings and are IP66/NEMA 4 rated for protection against moisture, dust, ice, wind, and insects.

### FEATURES

- SensorNet or RS-422 versions available in either 120 VAC or 230 VAC input
- Meets Class 2 power requirements
- NEMA 4/IP66 environmental protection rating
- Indoor or outdoor
- Quick-release lockable cover latches
- Can be conduit connected (standard 1/2-inch NPT knockouts with fitting supplied)
- Supports SpeedDome® Ultra/Optima programmable domes and outdoor housings
- Wiring diagram, installation guide, and test procedures on inside cover of J-Box enclosure
- Diagnostic LEDs
- Surge protection

The hinged front cover can be secured with captive screws and contains two quick-release cover latches that can be locked for further security. The inside of the enclosure's cover contains a wiring diagram, quick installation instructions and test procedures specific to that J-Box.

The units contain an on/off power switch as well as diagnostic LEDs for host, aux, dome activity, noise, and power. Surge protection circuitry within the J-Box arrests unexpected voltage surges on exterior power and data lines to protect interior equipment. The J-Boxes can be surface-mounted to concrete, wood, or sheet rock with supplied hardware. They can also be mounted to a ceiling or to a pole with user-supplied hardware.

## SPECIFICATIONS

### Model Numbers

RJ1SNUD	SensorNet, 120 V
RJ1SNUD-1	SensorNet, 230 V
RJ856UD	RS-422, 120 V
RJ856UD-1	RS-422, 230 V

Transformer primary jumpers and main line cord are field changeable to support either 120 VAC or 230 VAC.

### Electrical

Input Voltage	100 to 120 VAC or 200 to 240 VAC, 50/60 Hz
Input Current	1.0 A / 0.5 A
Max Operational Limits	90 to 135 VAC or 180 to 265 VAC, 50/60 Hz
Output	26 VAC, 2.4 A max, Class 2 LPS
Power Line	TVS rated at 10 kA, 8/20 $\mu$ sec impulse rated gas tube

### Operational

Diagnostic LEDs	
SensorNet	Host, aux, dome activity, noise, power
RS-422	Push-button controlled data in/data out
Power	On/off power switch
Wiring diagram, installation guide, test procedures all included on inside cover of J-Box.	

### Mechanical

Environment	Indoor/Outdoor
Wall Mounting Options	Concrete, wood, sheet rock
Dimensions (H x W x D)	200 x 200 x 132 mm (7.87 x 7.87 x 5.19 in)
Unit Weight	3.7 kg (8.25 lbs)
Shipping Weight	5 kg (11.0 lbs)
Construction	Polycarbonate, nonmetallic enclosure
Color	Light gray
Cover Locks	Two quick-release lockable cover latches
Cable Access	Three 1/2-inch NPT strain relief fittings provided for power, host and dome cables

### RS-422 Serial Communication Interface

Cable Distance	
J-Box to J-Box	1 km (3000 ft)
Host to J-Box	1 km (3000 ft)
J-Box to Dome	Limited by the length of the low-voltage AC power cable
Maximum Loads	10 daisy chained
Cable Type	Two shielded twisted pair (STP), 22 AWG, polarized
Surge Protection	10 kA 8/20 $\mu$ sec impulse rated gas tube, TVS rated at 1,500 W
Connectors	
Host	Spring-loaded
Aux	Spring-loaded
Dome	Eurostyle terminal

### SensorNet Serial Communication Interface

Cable Distance	
J-Box to J-Box	1 km (3000 ft)
Host to J-Box	1 km (3000 ft)
J-Box to Dome	Limited by the length of the low-voltage AC power cable
Maximum Loads	32/node
Cable Type	Single unshielded twisted pair (UTP), 22 AWG, non-polarized
Surge Protection	Isolation transformer coupled, 2000 Vrms, 10 kA, 8/20 $\mu$ sec impulse rated gas tube, TVS rated at 1 watt
Host, Aux and Dome Connectors	Eurostyle plug

### Environmental

Weatherproof Standard	NEMA 4/IP66
Operating Temperature	-40° to 50° C (-40° to 122° F)
Storage Temperature	-10° to 50° C (14° to 122° F)
Relative Humidity	0 to 95% RH (non-condensing)

### Regulatory

Emissions	FCC: 47 CFR, Part 15, Subpart B Class A CE: EN55022, Class B CE: EN6100-3-2 CE: EN6100-3-3 AS/NZS 3548, Class A CISPR22 ICES-003
Immunity	CE: EN50130-4
Safety	cUL: CSA 22.2, No. 950 CE: EN60950 IEC950

### Compatibilities

SpeedDome Optima Series Dome
SpeedDome Ultra Outdoor Housing

