

IR BUS Ceiling Reader

Description

The Elpas High-Resolution IR BUS Ceiling Reader from Visonic Technologies is a supervised, fixed infrared locating device. The reader is designed to detect and relay sub-room 'Location' and 'State' data in real-time from Elpas Active RFID IR-Enabled Asset, Personnel or Infant Protection Tags to host applications.

The reader can be easily integrated anywhere onto wired or wireless Ethernet/Wi-Fi networks (using an Elpas RF IP Reader as a RS-485 BUS master) to enable indoor facility-wide sub-room monitoring and tracking of assets or personnel in real-time.

Architecturally attractive, the reader is easily surface mounted onto solid ceilings or flush mounted into dropped (false) ceilings. The Elpas High-Resolution IR BUS Ceiling Reader supports large tag populations at read-distances up to 15m/50ft (360° coverage) and is remotely configurable for customized applications. Onboard I/O ports enable the monitoring of one general purpose analog input and control of one open-collector digital switched output.

The Elpas High-Resolution IR BUS Ceiling Reader also supports XML messaging technology (via the Elpas RF IP Reader) for integration with external systems plus full-duplex data transmission with up to 15 Elpas RS-485 BUS devices.



Elpas IR BUS Ceiling Reader

Product Features

- Attractive, cost effective design
- Real-time tag monitoring and tracking
- Read range up to 15m/50ft radius (360° coverage)
- Sub-Room location accuracy
- Handles large tag populations
- Fully supervised, including tamper protection
- Low power consumption
- Remote Ethernet configuration
- Onboard I/O ports, RS-485 connectivity
- XML messaging technology (via Elpas RF IP Reader)
- CE, FCC, IC certified

Applications and Uses

- Patient identification
- Assisted living facilities
- Infant protection
- Nurse/patient call
- Wandering patient supervision
- Entrance- and exit- based alarming
- Hands-free access control
- Asset management & loss prevention
- Personnel and visitor safety

Elpas IR BUS Ceiling Reader – Confidential Technical and Product Specifications

Operational Specifications	
Operating Frequency	455KHz
Read Range (Note 1)	Installation grid: 15 m / 50 ft radius
Tag Density	Up to 50 tag messages per second
Message Length	4–31 byte message (encapsulated for messages > 4 bytes)
Buzzer Indicator	Upon power-up: beeps once Device malfunction: beeps continuously
Visual Indicators	Corrupted firmware: red LED lights continuously Unregistered in EIRIS: red LED blinks every second Tag/Badge detection: flashes once per message
Service Pin	Generates service message
Encoding	Factory-programmed ID
RS-485 BUS	230Kbit/sec
Input / Output	1 analog input, 1 open collector digital outputs (up to 100 mA)
Power Requirements	16–28 Vdc/50mA
General Specifications	
Mounting	Surface-mounted on solid walls and ceilings, flush-mounted into dropped (false) ceilings
Construction	Black poly carbonate plastic
Dimensions (H x W x D)	17 x 4 cm (6.6 x 1.6 inches)
Weight	Approximately 200 grams / 7.0 ounces
Tamper Protection	Open 'State' spring loaded switch button
Device Interfaces	RS-485 Bus & Power: Female RJ-11 (4P4C) or Four-position removable terminal block One Analog Input: Two-position fixed terminal block One Digital Output: Two-position fixed terminal block
Operating Environment	Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing
Storage Temperature	-40° to 70°C (-40° to 159°F)
Remote Management	EIRIS 4.6.3 (or higher) software
Compliance Standards	CE: EN300220-1, EN300220-2, EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22 FCC: FCC PART 15, Sub-part B, Class B FCC ID: O4X5-IRB0088 IC: 1467G IRB00880
Warranty	1-year limited warranty

*Note 1: Read distances may be affected by environmental conditions and site characteristics. All specifications are subject to change without notice.

Ordering Information

Part Number	Description
5-IRB00880	IR Reader, Bus, Ceiling

Compatible Accessories

Part Number	Description
5-JBA00485	RS-485 Junction Box, 4 RJ11 Ports
5-ERS02721	Network Drop Cable, 2.5 Meters / 8.0 Feet
5-ERS02721-1	Network Drop Cable, 5.0 Meters / 16.0 Feet
5-500100	Power-Over-Ethernet Splitter, 24Vdc/0.5A
5-ERS02601	P60 Power Supply, 24Vdc/2.5A
5-RDT09100	Mounting Bracket (5 units)
5-RDT09113	Reader Surface-Mount Plastic Ring (5 units)

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About Visonic Technologies

Visonic Technologies (VT) is a global leader in Active RFID/RTLS safety and security solutions for the changing healthcare industry. VT delivers out-of-the-box as well as custom-tailored risk mitigation tools that enhance patient and personnel safety; reduces asset shrinkage and labor costs; lessens negligence litigation and facilitates industry guideline compliance.