



Par-Sec Reader PSRW38-232/1

The PSRW38-232/1 reader is designed to monitor and protect valuable property against unauthorised movement or removal, and to track the movement of personnel.

With its flexible design and 38bit wiegand format, this version of the reader is specifically designed to integrate with JANUS access control and offer any organisation an economical and easy-to-use asset protection and personnel tracking solution.

The Par-Sec reader is an RF-based device that receives information from RF Identification (RFID) tags you track or affix to property. It monitors for movement and routine reports from Stationary Asset Tags (SAT's), the removal of Portable Asset Tags (PAT's) from their protected zone, and also tracks and monitors Personnel Tags (PET's) within their programmable detection zones or portals.

When a movement or detection occurs, the Par-Sec reader reports the tags unique identification number to a connected access control or asset system.

Features

- Reports tag identification data in 38-bit Wiegand data format
- Up to 30 Mtrs. (100') detection range for movement or tamper of Static Asset Tags
- Programmable 0-18Mtrs. (0-60') detection range for Portable & Personnel Tags
- No external antenna
- Compatible with third-party access control and asset management systems
- Alarm relay output rated at 24Vdc / 1 Amp

RFID Tags

The three RFID tags available with Par-Sec are the SAT Static Asset Tag, PAT Portable Asset Tag, and PET Personnel Tag. The SAT and PAT tags feature a tamper device that generates alarm conditions at the reader if attempts are made to remove them from an asset.



SAT Stationary Asset Tag

The SAT protects valuable property that is normally stationary or does not move on a regular basis. The SAT's transmission range is 30Mtrs (100') and sends alarm signals to the reader if its internal motion sensor detects any movement from a stationary position.

PAT Portable Asset Tag

The PAT protects valuable property that moves inside a designated area or building. If a PAT moves into a pre-programmed security zone or area, for example an exit doorway, the Par-Sec reader detects the tag and sends the tags unique identification number to an access control system or asset management system, which can sound an alarm, trigger a relay closure, and optionally activate a remote alarm or video camera/recording device. The PAT's detection range can be programmed at the reader 0-18Mtrs. (0-60').

PET Personnel Tag

The PET Personnel tag functions as a motion-activated personnel tracking device and an identification card for long-range conventional access applications such as car-park barriers. The PET's detection range can be programmed at the reader 0-18Mtrs. (0-60').

RAT Range Adjustment Tag

The RAT is a durable field device that installation and commissioning personnel can use to adjust and test the detection range between the Par-Sec reader and RFID tags (PAT and PET tags only). The RAT is equipped with two replaceable AAA batteries.



PSRW38-232/1 Wiegand & RS232 Reader

SPECIFICATIONS

Power Supply Input

9-14 Vdc @ 100 mA (maximum)

Dimensions (HWD)

220mm (8.66") x 170mm (6.70") x 50mm (1.96")

Weight

750g (26.4oz)

Communications

RS232: Selectable 9600 or 2400 baud rate.

Cable length between readers:

15Mtrs. (50') at 9600 baud

60Mtrs. (200') at 2400 baud

Optional RS232/485 converters permit cable lengths to 1200Mtrs. (3,936'). Protocol available on request

RS232 daisy-chaining: Up to 4 readers maximum when installed as Master/Slave

38bit Wiegand format for direct integration with JANUS access control. The unique 26bit tag number along with specific data such as tag movement, tag tamper, tag low battery and routine reports are all transmitted within the 38bit format. These events are decoded within JANUS and displayed in text and graphical format accordingly.

Certification

DTI Radio Communications Agency

MPT1340 license exempt type approved.

Meets or exceeds:

EN 50081: 1992 Emissions.

EN 50082: 1992 Immunity

Environmental

Enclosure is IP51 rated

Wiring Specifications

Wiegand Data: Belden #8723 (22 AWG minimum)

RS232 Data: Belden #8723 (22 AWG minimum)

LV Power: Belden #8723 (22 AWG minimum)

Temperature Ranges

Operating: -5° C (23° F) to 40° C (104° F)

Storage: -10° C (14° F) to 70° C (158° F)

Front Panel Indicators

Range Red (1) RAT Operation detected

Mobile Tag Yellow PAT or PET detected

Stationary Tag Green SAT detected

Power Red (2) Power On or Scan Mode (flashing)

Part Numbers

PSRW38-232/1 Wiegand/RS232 Reader

PSSAT/2 Stationary Asset Tag

PSPAT/2 Mobile Asset Tag

PSPET/1 Personnel Tag

PSRAT/2 Range Adjustment Tag

Customer Support

Newmark Technology offer a full range of support services including site surveys, installation supervision and training.

Reader Format

In order to utilize specific information from the tags such as routine report, movement event, tamper event, and battery condition, the 38bit Wiegand format reader must be used. Additionally, the controlling software e.g. access control system must be compatible with this specific reader format.

If a 26bit reader is used only the tag number will be transmitted no matter what the type of event, and some events will not be transmitted at all e.g. routine report and tag battery condition

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