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Sentry Card Reader

Introduction

The Sentry card reader is designed to restrict the access control of unauthorized person / vehicle in harsh and hazardous area. It can be configured to read a proximity card.

It is certified to Ex d, IIB, T6, Zone 1 area where there is a high risk of ignition of flammable substances.

The FLP Sentry comprises of the electronics that formats the card data for transmission to a host computer / other equipment.

Proximity card works on non-contact type technology in which the card is read by passing it within few centimeters of the glass window of Sentry.

Power ON / Card Read

A bi-colour LED is provided to indicate that the Sentry is powered. This turns briefly from green to red on each successful card reading.

Card Present

A second LED is fitted to proximity card reader head. This remains illuminated whenever a proximity card is within the range of the sensing windows.

Host

Third LED, which is in full control of the host computer and its application is user defined.

The FLP Sentry communicates using RS-422 or RS-485 serial data protocol. The sentry can be multi-dropped, whereby up to 64 Sentry can be daisy chained and connected to a single control port on the host.

For maximum flexibility and ease of use, all communication between the Sentry and its host are ASCII, and are derived from the VT-100 standard. Command Escape Sequences are a sub-set of those used by the Mercury terminal.

A successful read is indicated by the LED and the card data is then transmitted to the host or processor based equipment.

Multi Drop Communication

The Sentry Card Reader in a configuration mode alongwith Host determines the format of the data transmission in multi drop communication.
All other parameters are set using remote configuration mode, which are directly controlled and read by the host computer.

Point-to-Point Communication

FLP Sentry can be connected with processor-based equipment in single point communication mode. The Sentry can be run in default config mode. In this mode there is no need to config the card reader.

General Specifications

- Power Requirement: 115V AC / 230V AC (+/- 10%), 24V DC (+/- 0.5V), 40 mA (Approx.)
- Operating Temperature: 0 to 60° C
- Storage Temperature: 0 to 70° C
- Humidity: 95% Non-Condesing
- Data Protocol: Based on VT-100
- Multi Drop: Up to 64 Card Readers
- Baud Rate: 9600 Baud

Enclosure Specifications

- 320mm (H) x 230mm (W) x 155mm (D) (+/- 5mm)
- Weight Approximately 6.6 kg
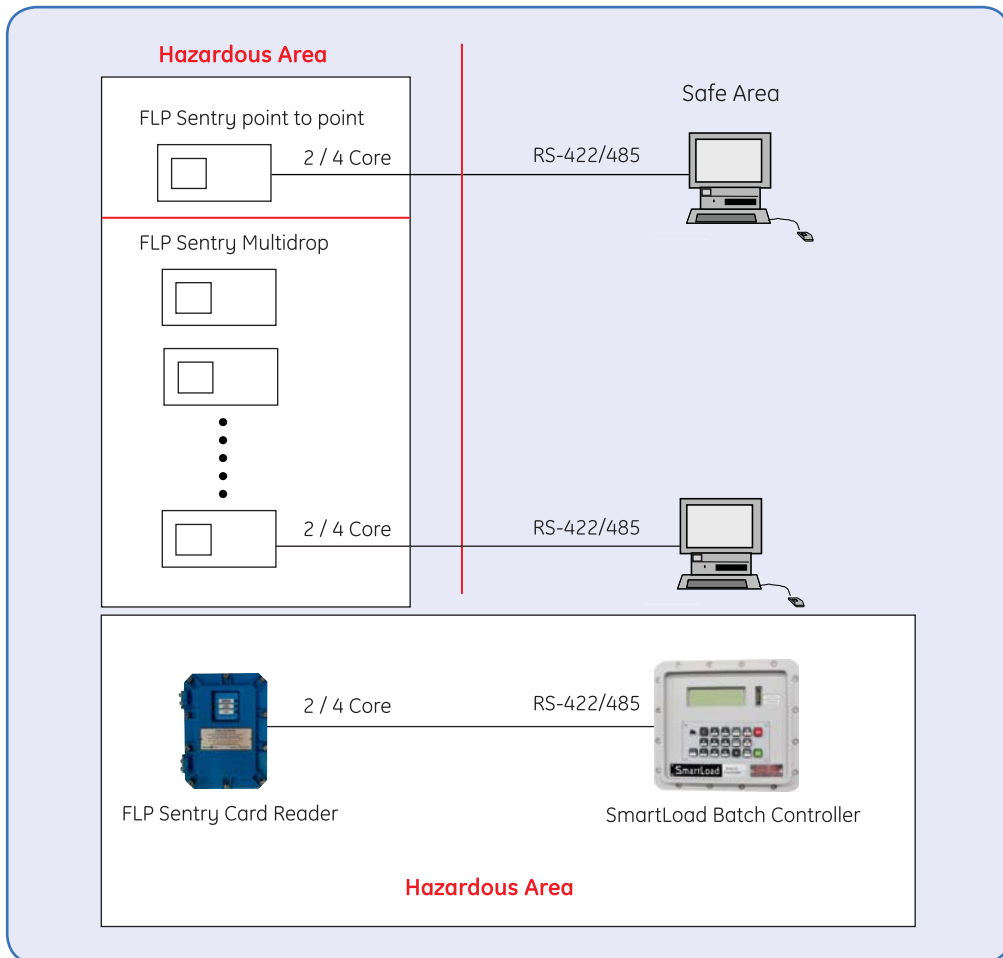- Four cable Entries at bottom

MODEL : SENTRY CARD READER

ORDERING CODE: X   X

POWER SUPPLY OPTIONS:
- 0 – 24 V DC, 10W
- 1 – 115 V AC, 10VA
- 2 – 230 V AC, 10VA

AGENCY APPROVAL OPTIONS:
- 0 – PESO (CCOE)
- 1 – ATEX
- 2 – IECEx

Certificates / Approvals

- Approvals: ATEX / IECEx Approved (For Global market), CIMFR and PESO Approved (For India)
- Area Classification:
  - ATEX/IECEx Approved Model: Ex II 2 GD, Ex db IIB T6 Gb, Ex tb IIIB T85°C Db IP65, -20°C <= Ta <= +60°C
  - PESO Approved Model: Ex d IIB T6 Gb, Ex tb IIIC T85°C Db IP66, -20°C <= Ta <= +60°C
- Standards:
  - ATEX approved Sentry Card Reader: EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014 & EN 60529:2001
  - IECEx approved Sentry Card Reader: IEC 60079-0:2011, IEC 60079-1:2014, IEC 60079-31:2013 & IEC 60529:2001
  - PESO approved Sentry Card Reader: IS/IEC 60079-0:2011, IS/IEC 60079-1:2014, IS/IEC 60079-31:2008 & IS/IEC 60529:2001

Hazardous Area

FLP Sentry point to point

2 / 4 Core   RS-422/485   Safe Area

FLP Sentry Multidrop

2 / 4 Core   RS-422/485

FLP Sentry Card Reader   2 / 4 Core   RS-422/485   SmartLoad Batch Controller

Hazardous Area

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