

RDL Biometric Solution



Overview

Accountability and Security plays a pivotal role in managing business. RDL introduces Biometric add on block product designed to seamlessly integrate with the shop floor machineries. Flexible and customizable design allows to control various operations like switching machine job operation, down time escalation and product loss escalation. The product is tested with all major PLC vendors and supports multiple interface options.

Features & Specifications

Controller: STM32/ATmel

Memory: Flash 256KB, SD CARD 32GB

RTC: Built-in RTC for stamped data logging

Communication: RS485 MODBUS, Rs232, USB & Ethernet 10/100Mbps

Fingerprint Sensor:

- Fingerprint image input time: <0.3 seconds
- Window area: 14x18 mm
- Matching method: Comparison method (1: 1)
- Search method (1: N)
- Characteristic file: 256 bytes
- Template file: 512 bytes
- Storage capacity: 1000 pieces
- Security Level: Five (from low to high: 1,2,3,4,5)
- Fake rate (FAR): <0.001%
- Refusal rate (FRR): <1.0%
- Search time: <1.0 seconds (1: 1000 hours, mean value)
- Host interface: UART \ USB1.1
- Communication baud rate (UART): (9600xN) bps
Where N = 1 ~ 12 (default N = 6, i.e., 57600bps)
- Working environment: Temperature: -20 °C - +40 °C Relative humidity: 40% RH-85% RH (no condensation)
- Storage environment: Temperature: -40 °C - +85 °C Relative humidity: <85% H (no condensation).

DRY contact: 1x SPDT Relay

Power supply : 12 to 36 volts DC Supply

Enclosure:

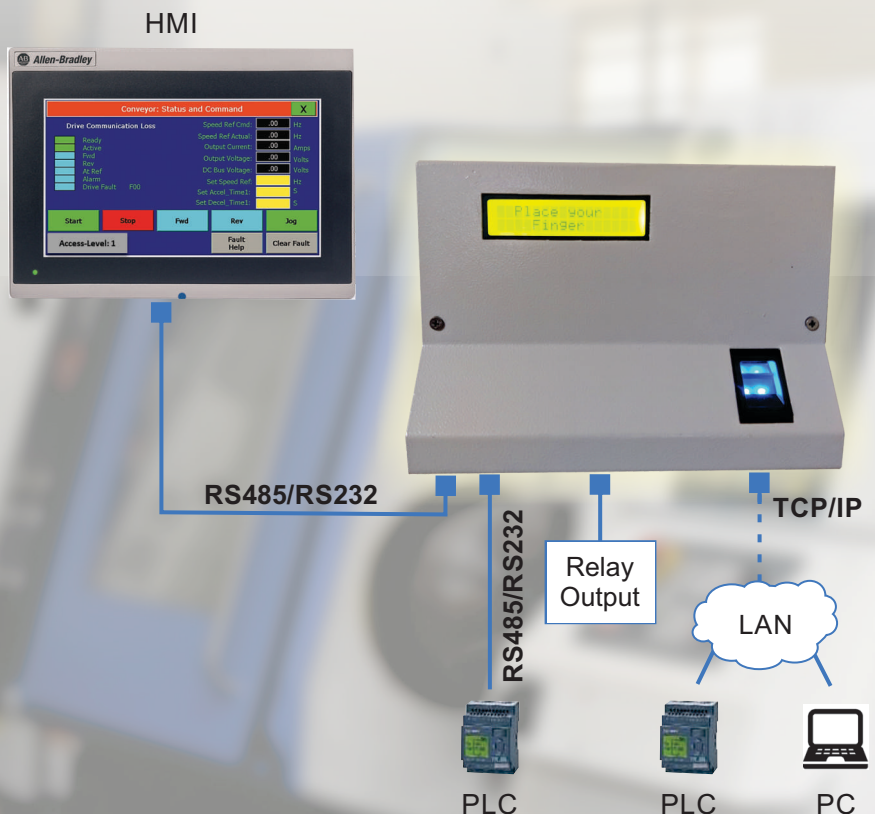
- IP 20
- Mountng: Wall / DIN Rail

Operational Benefits

Ease the authentication process by installing RDL Biometric add on block as this supports wide range of industrial communication protocol like RS232, RS485 and TCP/UDP Modbus and offer below mentioned operation benefits.

- Improved productivity and asset utilization.
- Paperless production environment.
- Reduced down time.
- Improved security level of access.

Application Diagram



Application

Switching Machine Job Operation



Privileged access to Machining Processes using different Tools and Materials

Mono Stable Biometric Switch



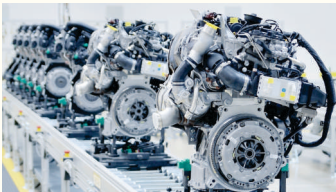
Accountable response to situations like emergency system with valves, shutdown & access control

Down Time Escalation



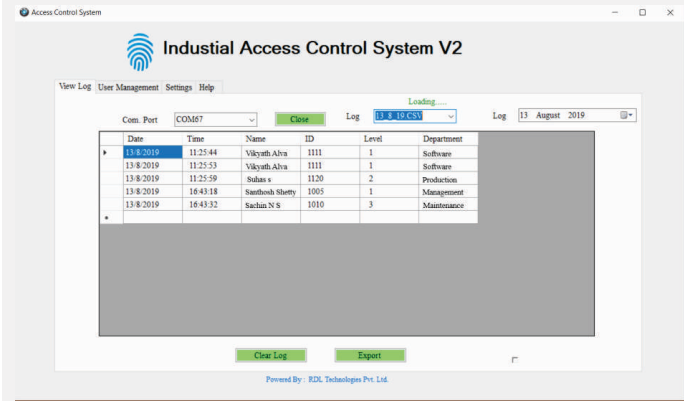
Track service teams response time towards break downs, reducing down time and improved productivity

Production Loss Escalation



Accountability of floor managers during production break downs, timely Corrective actions preventing losses

RDL Biometric Configuration Manager



At no extra cost every RDL Biometric add an block is shipped with plug and play configuration Manager, that enable configuration of all input-output ports across interfaces and also communication parameter. Configuration Manager is designed to be operated with minimal training and technical expertise.

Mounting Information

Standard Mount

One Consolidated Enclosure unit, finger print reader and Controller unit. Easy to deploy on walls, machine enclosure, etc



Model No.: RDL810

Custom Mount

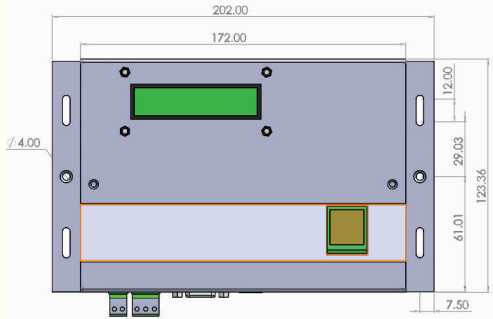
Suitable for custom mount application(Fig A & Fig B), Separate finger print reader and controller unit provided along with interconnection cable (Max 5 meters).



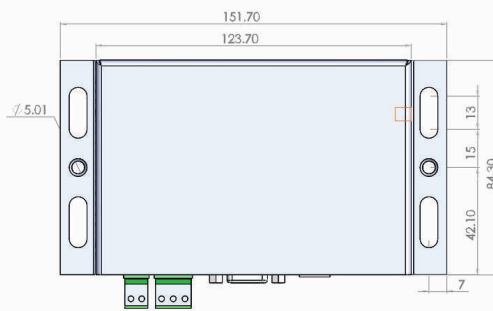
Model No.: RDL810A

Dimensions

Model No.: RDL810



Model No.: RDL810A



RDL Technologies Pvt. Ltd.



P: +91 824 2988407 - www.rdltech.in
sales@researchdesignlab.com

5th Floor, Sahyadri Campus, Mangaluru - 575007