

INFRARED COMMUNICATION SOLUTIONS

Protocol Converter Gen 2 Specification

The protocol converter provides safety barrier protection for the nozzle receiver. It provides power and converts the nozzle receiver signal to either RS232, Profinet or Profibus output

| SPECIFICATION DESCRIPTION | VALUE | UNIT | REMARKS |
|------------------------------------|---------------------------------|------|---------------------|
| Signal input | | | |
| Format | RS485 | | |
| Sensitivity level | +/- 200 | mV | |
| Baud rate | 38.4 | kps | |
| Power input | | | |
| Voltage (typ) | 24 | V | |
| Voltage (min) | 22 | V | |
| Current (typ) | 130 | mA | Profinet is highest |
| Current (max) | 200 | mA | |
| Absolute maximum | | | |
| Power voltage in | 45 | V | |
| Data voltage in | +/- 5 | V | |
| | | | |
| Signal output-RS232 | | | |
| Format | RS232 | | |
| Voltage different level | 0-6 | V | |
| | | | |
| Signal output-Profibus | | | |
| Format | Profibus, Profinet | | |
| Voltage different level | 4-7 | V | |
| | | | |
| Form factor | Rectangular | | |
| Length | 21 | Cm | |
| Width | 19 | Cm | |
| height | 5 | Cm | |
| Weight | 1.1 | Kg | |
| Housing material | Aluminum | | |
| Operation temperature | -10 to 50 | C | |
| Ingress protection | IP20 | | |
| Mounting | DIN | | |
| Certification | ATEX, NEC, | | |
| Output connector type- RS232 | DB9F | | |
| RS232 Pin out | 2 RS-232 RD 5 RS-232 Sig GND | | |
| Output connector type- Profibus | DB9F | | |

INFRARED COMMUNICATION SOLUTIONS

Protocol Converter Gen 2 Specification

| SPECIFICATION DESCRIPTION | VALUE | UNIT | REMARKS |
|------------------------------------|------------------|--|---------|
| Profibus Pin out | 3 8 6 5 | Profibus Data – Profibus Data + +5V power +5V Gnd | |
| Output connector type- Profinet | RJ45 | | |
| Profinet Pin out | 1 2 7 8 | TD+ TD- RD+ RD- | |
| Output connector type- USB | USB type B | | |
| Input connector type- RS485 | Terminal block | | |
| Input Connector Pins | 1 4 2 3 | PWR GND DATA + DATA - | |

| ORDERING INFORMATION | |
|----------------------|--|
| 200526 | Protocol converter Gen 2 RS232-ATEX |
| 200527 | Protocol converter Gen 2 Profibus-ATEX |
| 200577 | Protocol converter Gen 2 Profinet-ATEX |
| 200632 | Protocol converter Gen 2 RS232 -NEC |
| 200633 | Protocol converter Gen 2 Profibus -NEC |
| 200634 | Protocol converter Gen 2 Profinet -NEC |

Contact Information
IRDI System Inc.
Edward Li, General Manager
Email: edward.li@irdisystem.com
Phone: 778.386.0485



All specifications subject to change without notice.