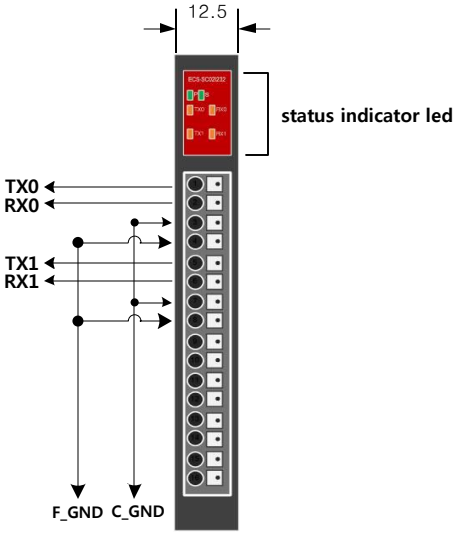
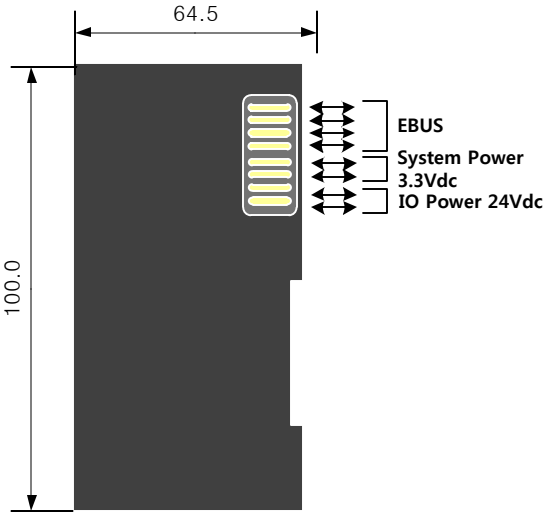
# ECS-SC02I232 | 2CHANNEL RS232 MODULE

## Outline Drawing




Front view




Side View

(unit : mm)

## Specification

### ▣ Serial Communication Specification

| ITEM | ECS-SC02I232 |
|---|---|
| Number of Channels | 2 Channels |
| Protocol | RS232 |
| Isolation | Serial Channel to Logic : Digital Isolators(2.5kV$_{rms}$ for 1min) |
| Baud-rate | 2400 ~ 38400 bps |
| Cable length | Max. 10m |

### ▣ Power Specification

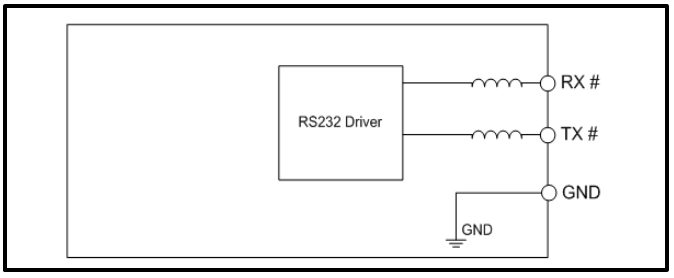
| ITEM | ECS-SC02I232 |
|---|---|
| Power Dissipation(System) | 100mA @ 3.3V DC(normally) |
| Power Dissipation(I/O) | 20mA @ 24.0V DC(normally) |
| Rated input voltage | 24V DC<br>(- 15%/+20%, ripple ratio within 5%)<br>EN 61131-2 |

### ▣ Environmental Specification

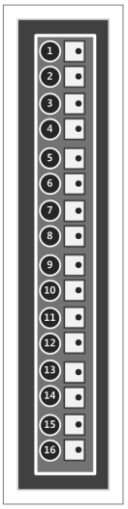
| ITEM | ECS-SC02I232 |
|---|---|
| Dimension | 65 * 100 * 12.5 (mm) |
| Install | Industrial DIN rail |
| Operating Temperature Range | 0°C ~ 50°C |
| Storage Temperature Range | -20°C ~ 80°C |
| Operating Humidity Range | 5% ~ 90%RH, non-condensing |
| Storage Humidity Range | 5% ~ 90%RH, non-condensing |

## Wiring

### ▣ Circuit Diagram

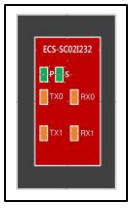



### ▣ PIN MAP



| | |
|---|---|
| 1 | TX0 |
| 2 | RX0 |
| 3 | CGND |
| 4 | FGND |
| 5 | TX1 |
| 6 | RX1 |
| 7 | CGND |
| 8 | FGND |
| 9 | NC |
| 10 | NC |
| 11 | NC |
| 12 | NC |
| 13 | NC |
| 14 | NC |
| 15 | NC |
| 16 | NC |

## Indicators



| | | | |
|---|---|---|---|
| P | SYSTEM POWER LED | ON | SYSTEM POWER(3.3V DC) ON |
| | | OFF | SYSTEM POWER(3.3V DC) OFF |
| S | EtherCAT AL STATE LED | OFF | INIT |
| | | Blinking(slow) | PRE-OP |
| | | Single Flash | SAFE-OP |
| | | ON | OP |
| | | Flickering(fast) | BOOTSTRAP |
| TX0, RX0 TX1, RX1 | SERIAL COMM. STATE LED | ON | Communicating |
| | | OFF | No communicating |

▣ CAUTION