

# RS232 to RS485 / RS 422 Converter

- Isolated RS485/RS422 on terminal block.
- RS232 with DB9 Female connector
- Auto direction control for RS485-2W transmission.
- Galvanic Isolation of 1500V for RS485/RS422.
- Supports Baud rate up to 230Kbps.
- Internal 15 kV ESD protection both RS232 and RS485/RS422.
- LED Indication for Transmit, Receive signal communication traffic.
- Input power supply range 9 to 26.4 VDC
- 2M enclosure with DIN Rail mounting.



## Ordering Information

| Cat. No. | Description  |
|----------|--|
| 28B21A0  | RS 232 to RS485/RS422 CONVERTER                                |
| 28E34B0  | Accessory for Converter 28B21A0, Cable, DB9 Female to DB9 Male |

# RS232 to RS485 / RS 422 Converter



|                                       |  |
|---------------------------------------|--|
| <b>Cat. No.</b>                       | <b>28B21A0</b>   |
| <b>Parameters</b>                     |  |
| <b>RS232 Port</b>                     |  |
| Connector                             | D type 9 pin Female  |
| Serial line protection                | Internal 15 kV ESD   |
| <b>Isolated RS485/RS422 Port</b>      |  |
| No. of Ports                          | 1  |
| RS422                                 | TX+, TX-, RX+, RX  |
| RS485                                 | D+, D-   |
| Serial line Protection                | 15kV ESD   |
| <b>Serial Communication Parameter</b> |  |
| Isolation                             | 1500 V Galvanic  |
| Parity                                | None, Even, Odd, Space, Mark   |
| Data Bits                             | 5,6,7,8  |
| Stop Bits                             | 1,1.5,2  |
| Flow Control                          | None, XON/XOFF,  |
| Speed                                 | 300 bps to 230 Kbps  |
| LED Indication                        | TX, RX LED indication  |
| Input Supply Voltage                  | 9.4 - 26.4 VDC   |
| Power Consumption                     | 1W   |
| Operating Temperature                 | 0° C to + 60° C  |
| Storage Temperature                   | -25° C to + 70° C  |
| Humidity                              | 95% (Rh)   |
| Enclosure                             | Flame Retardant UL 94-V0   |
| Dimension (W x H x D) (in mm)         | 36 X 90 X 52.3   |
| Weight (unpacked) Approx.             | 100 g  |
| Mounting                              | Base / DIN rail  |
| Degree of Protection                  | IP 20 for Terminals, IP 40 for Enclosure   |
| Certification                         | CE RoHS Compliant  |
| Function and Application              | This converter allows to interface any device using RS232 serial link to RS485/RS422 link. The RS485 specification allows to network up to 32 Nodes on the same lines, at speeds up to 10 Mbps to distances of 4,000 feet (1200 meters). RS485/RS422 links are much used in industrial process control where reliability is important. |

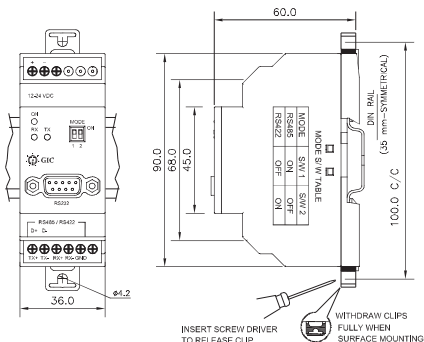
## EMI / EMC

|                                   |                |
|-----------------------------------|----------------|
| Harmonic Current Emissions        | IEC 61000-3-2  |
| ESD                               | IEC 61000-4-2  |
| Radiated Susceptibility           | IEC 61000-4-3  |
| Electrical Fast Transients        | IEC 61000-4-4  |
| Surges                            | IEC 61000-4-5  |
| Conducted Susceptibility          | IEC 61000-4-6  |
| Voltage Dips & Interruptions (DC) | IEC 61000-4-29 |
| Conducted Emission                | CISPR 14-1     |
| Radiated Emission                 | CISPR 14-1     |

## Environmental

|                      |                |
|----------------------|----------------|
| Cold Heat            | IEC 60068-2-1  |
| Dry Heat             | IEC 60068-2-2  |
| Vibration            | IEC 60068-2-6  |
| Repetitive Shock     | IEC 60068-2-27 |
| Non-Repetitive Shock | IEC 60068-2-27 |

## MOUNTING DIMENSIONS (mm)



## TERMINAL TORQUE & CAPACITY

|     |   |
|-----|---|
|     | 0.54 N.m (6 Lb.in)                          |
|     | 1 x 2.5 mm <sup>2</sup> Solid Wire/Stranded |
| AWG | 1 x 24 to 12                                |