

Current Loop to Serial Converter

Model BB-232CL9R

B+B SMARTWORX

Powered by

ADVANTECH

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PRODUCT FEATURES

- Optically isolated digital current loop to serial conversion
- Baud rates up to 19.2 kbps
- Inline installation
- Transmit (T+ and T-) loop and Receive (R+ and R-) loop
- Each current loop may be operated active or passive
- Designed for 20mA digital current loop
- Power supply required, not included, sold separately

Model BB-232CL9R is a port-powered RS-232 to current loop converter. No external power required for passive loop installations, but a power supply is required to generate an active loop (power supply sold separately).

ORDERING INFORMATION

MODEL NUMBER	SERIAL CONNECTOR	CURRENT LOOP CONNECTOR	POWER SOURCE FOR SERIAL SIDE
BB-232CL9R	DB9 Female	Terminal Block	Port-powered or external power supply (sold separately)

ACCESSORIES - sold separately

BB-SMI6-12-V-ST - Power Supply, 12VDC 500mA, stripped and tinned leads, Level VI

Current Loop Explained

Current loop devices use Current On or Current Off to transmit binary digits. Current loop signals can often transmit over circuits that serial signals can't traverse reliably, due to distance, marginal conductors and electrical noise.

Current loop converters from B+B SmartWorx interface RS-232 to the most common current loop ports – 20mA with open circuit voltages up to 30 V – at a maximum baud rate of 19.2 kbps. High speed optical isolators couple and isolate Transmit and Receive data. All B+B SmartWorx' current loop converters have a transmit (T+ and T-) loop and a Receive (R+ and R-) loop. Each loop may be operated as an active or passive loop. When the converter needs to provide the loop current, a 12 VDC power supply is required for the current loop side.

SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	19.2 kbps maximum
RS-232	
Connector	DB9 female
Signals	TD, RD, GND
Current Loop	
Connector	Terminal block
Signals	T+, T-, R+, R-, GND
POWER	
Source	Terminal block
Input Voltage	12V DC @ 100 mA
MECHANICAL	
MTBF	714354
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C (+32 to +185 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	0 to 95% non-condensing
APPROVALS / CERTIFICATIONS	
FCC Part 15, EN 55032 Class A Emissions	

All product specifications are subject to change without notice.
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