Current Loop to Serial Converter

Model BB-232CL9R





ORDERING INFORMATION

Optically isolated digital current loop to serial conversion

Transmit (T+ and T-) loop and Receive (R- and R-) loop Each current loop may be operated active or passive

Power supply required, not included, sold separately

ACCESSORIES - sold separately

BB-SMi6-12-V-ST - Power Supply, 12VDC 500mA, stripped and tinned leads, Level VI

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).

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 o ptical 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.

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

PRODUCT FEATURES

Inline installation

Baud rates up to 19.2 kbps

Designed for 20mA digital current loop

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 / CERTIFICA	ATIONS			
FCC Part 15, EN 55032 Class A Emissions				

All product specifications are subject to change without notice. 232CL9R 4818ds

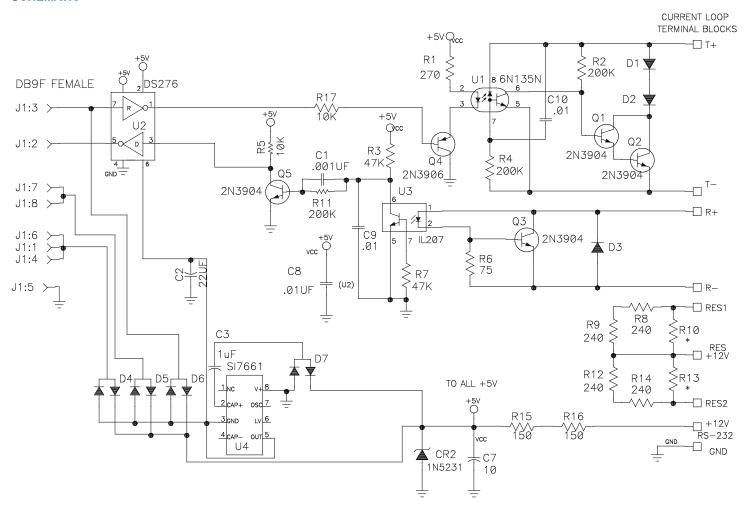


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SCHEMATIC



* INDICATES OPTIONAL THROUGH HOLE REPLACEMENT.