imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



UL Rated, Isolated Current Loop Converter

Model 232CLDR

B+B SMARTWORX

Powered by AD\ANTECH



PRODUCT FEATURES

- Converts RS-232 to 20mA current loop
- 2000V optical isolation protection from transients
- One Transmit current loop & Receive current loop
- Current loops can be set to Active or Passive
- -40 to 80°C wire operating temperature

Model 232CLDR is a DIN rail mountable RS-232 to current loop converter. It is wide temperature rated and UL Recognized for industrial applications. It has one optically isolated 20 mA transmit loop and one optically isolated receive loop. Each loop can be set to either "Active" or "Passive." When set to "Active" an isolated 20 mA current is supplied for each loop (Transmit and Receive). A 10 to 30 VDC power supply (required, not included) provides power to the converter and both current loops.

The 232CLDR communicates at baud rates up to 19.2 kbps and can extend communications up to 600 meters (2,000 ft.). 2,000V optical isolation protects equipment from damaging ground loops and surges. Two LED's indicate data flow. Connections are made on terminal blocks.

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.

Contact B+B SmartWorx for information on modifications for higher loop currents and voltages.

ORDERING INFORMATION

MODEL	SERIAL		POWER SOURCE
NUMBER	CONNECTOR	CONNECTOR	FOR SERIAL SIDE
232CLDR	Terminal Block	Terminal Block	External Power Supply

ACCESSORIES

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

DRPM25 - 35mm DIN rail to panel mount bracket, 25mm wide

All product specifications are subject to change without notice. 232CLDR_3217ds



UL Rated, Isolated Current Loop Converter

Model 232CLDR



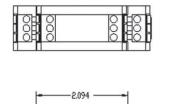
SPECIFICATIONS

RS-232 SERIAL	
Connector	Terminal Block
Signals	TD, RD, GND
CURRENT LOOP	
Signals	T+, T-, R+, R-, GND
Output Impendance	235 Ohms
Input Impendance	95 Ohms (Vdrop ± 1.86V with 20 mA applied)
Receiver	Low: <= 4.8 mA 4.8mA < invalid < 5.2 mA High: > 5.2 mA
Transmit	Vin = +10V> I out = 20.75 mA Vin = -10V> I out = 0.4 mA
Maximum Voltage Drop	2.2 Volts
ISOLATION	
Method	Optical
Rating	2000 V
POWER	
Connector	Terminal block
Voltage	10 to 30 VDC
Power Consumption	2.5 W
Source	External

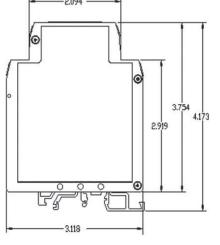
TERMINAL BLOCKS		
Wire Size	24 to 14 AWG	
Torque	4kgf-cm	
LED INDICATORS		
2 Data LEDs (Red)	RS-232 & current ;oop flash when data is transmitted	
ENCLOSURE		
Material	Plastic	
IP Rating	IP20	
Dimensions	2.5 x 7.9 x 9.5 cm (1.0 x 3.1 x 3.7 in)	
Mounting	35 mm DIN (panel mount adapter available, sold separately)	
MEANTIME BEFORE FAILURE		
MTBF	401834	
MTBF Calculation Method	MIL217F Parts Count Reliability Prediction	
ENVIRONMENTAL		
Operating Temperature	-40 to +80 °C (-40 to +176 °F)	
Storage Temperature	-40 to +85 °C (-40 to +185 °F)	
Operating Humidity	0 to 95% Non-condensing	
APPROVALS / CERTIFICATIONS		
CE, FCC		
cULus Recognized, File E222870		

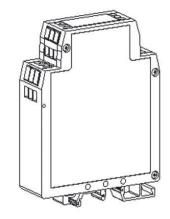
MECHANICAL

units = inches









B+B SMARTWORX
Powered by
AD\ANTECH

orders@advantech-bb.com / Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / European Office: Westlink Commercial Park, Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792444

ססם

 \square

.472