SC-232-B



RS232 to RS485 Opto-isolation Converter

Order online or call 1-800-343-1455 L-com.com

Product Overview

L-Com's SC-232-B features optical isolation to protect your valuable communications equipment from ground loops. Both RS232 and RS485 sides are powered by an external power supply (sold separately).

♦ Main functions

- Optic isolation between the RS232 and RS485 signals
- ·Plug and play support
- ·Transmits automatically, CTS flow control is not required

♦ Specifications

Power Supply	Uses 5VDC external power, sold separately			
Working Current	<15mA			
Baud rate	300∼38.4Kbps			
Maximum Distance	RS-485:<1.2Km(19.2Kbps),RS-232:15m			
Maximum Nodes	128 nodes			
Electrical	15Kv static protection, 600W/ms lightning protection and 2500V optic isolation			
Weight	36g(with terminal block)			
Dimensions	87mm×33mm×17mm(with terminal block)			
Working temperature	-40°C ∼85°C			

PIN Settings

The RS232 end is DB9 female. The pin definitions are below:

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PIN	1	4	6	7	8	2	3	5
Define	sho	short circuit		short circuit		TX	RX	GND

The RS485 end is DB9 male. The pin definitions are below:

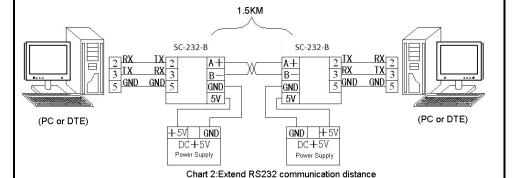
The K3403 end is DB9 male. The pin definitions are below.									
PIN	1	3	5	9	6 & 7				
Define	A+	В-	GND	5V	short circuit (120•)				
Specification	485+	485-	GND	5V	Short circuit 120• resistance				



·Connect the DC5V external power supply to the +5V and GND pins.

• The 120 jumper activates a 120 • resistor between A+ and B- when connected.

Applications 1.5KM SC-232-B 2 RX 3 TX IX 2 RX 3 5 GND GND 5 GND 120 Ω (1/4₩) 5V (PC or DTE) + - GND + - GND + - GND +5V GND RS-485 RS-485 RS-485 DC+5V equipment Power Supply To 128 Chart 1: Master-Slave and half duplex communication



Notices

·Matching the resistance in RS485:

When using the 120 • jumper, it is required to have a similar 120 • resistor on the other end. It is only required to use this feature if the data rate is above 19.2Kbps or the cable length is over 200m.

· RS485 Grounding

The GND circuits do need to be connected together, but do not link them to earth ground.