IMS™

intelligent motion systems, inc.
Excellence in Motion™

CV-3222

RS-232 to RS-422 CONVERTER

OPERATING INSTRUCTIONS

370 N. MAIN ST., PO BOX 457, MARLBOROUGH, CT 06447
PH: (860) 295-6102, FAX: (860) 295-6107
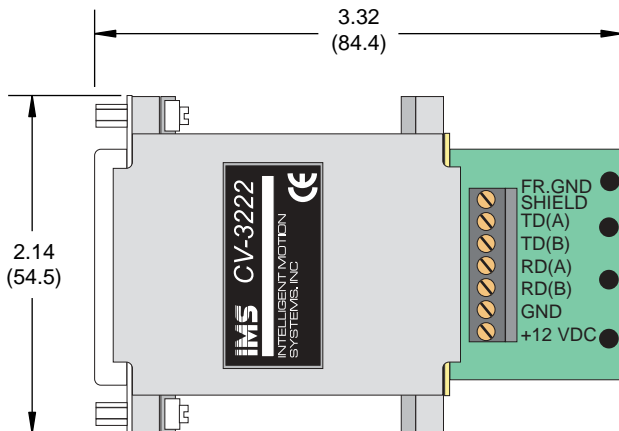Internet: www.imshome.com, E-Mail: info@imshome.com

Introduction

The CV-3222 is an in-line RS-232 to RS-422 converter. This product works well with all IMS indexer products and is useful when the indexer device is at a distance greater than 50 feet which is the RS-232 limit. The CV-3222 is recommended for use with the following IMS products:

IM483I/IE
IM1007I/IE
Panther LI/LE
Panther HI/HE
LYNX Controller Products
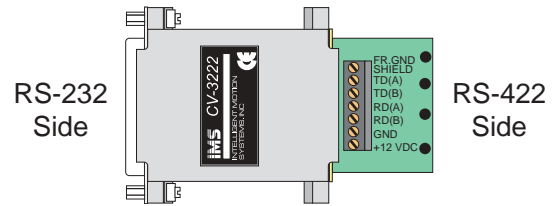
Mechanical Specification

Dimensions in Inches (mm)

3.32 (84.4)

2.14 (54.5)

FR.GND
SHIELD
TD(A)
TD(B)
RD(A)
RD(B)
GND
+12 VDC

Electrical Specifications

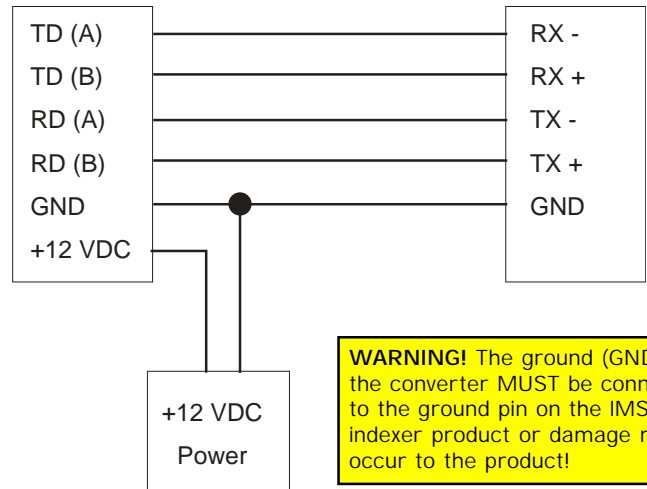| CV-3222 Specifications	
BAUD Rate	Up to 19.2 kbps
Connectors:	
RS-232 Side	DB-25F (DCE)
RS-422 Side	7 Pin Terminal
Isolation	1500 V Optical
Power Requirement	12 VDC @ 100 mA

Connecting the CV-3222

Recommended Wiring Practices

Wire .... 24 AWG Twisted Pair
Strip Length .... 0.200 in (5mm)
Torque on Terminal Strip Screws .... 3 lb-in (0.33 Nm)

RS-232 Side   RS-422 Side

FR.GND
SHIELD
TD(A)
TD(B)
RD(A)
RD(B)
GND
+12 VDC

A gender converter or DB25M to DB-9F adapter is required to plug the RS-232 side directly into a PC serial COM port.

TD (A)	RX -
TD (B)	RX +
RD (A)	TX -
RD (B)	TX +
GND	GND
+12 VDC	

+12 VDC Power

WARNING! The ground (GND) of the converter MUST be connected to the ground pin on the IMS indexer product or damage may occur to the product!

N Most PC serial ports are able to provide sufficient power to the CV-3222 provided a standard adapter is used to connect the CV-3222 to the COM port. If this is the case it is not necessary to use an external +12VDC supply.