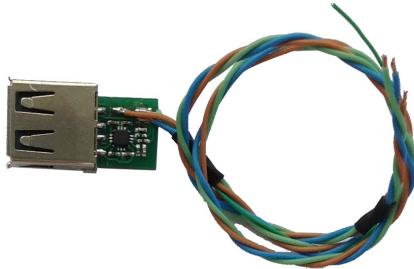# DEVICE FUNCTIONS

CS50070

CS50071

CS50072

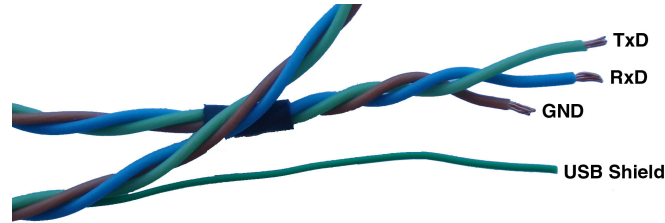## CS5007L5 Plugs

DEVICE
FUNCTIONS

Features
- IP67 sealed
- Nickel plated aluminium shell
- Thread coupling mechanism for secure USB cable connection
- Shock, vibration and traction resistant
- RS232 - USB conversion
- Virtual COM port device driver
- ESD surge protection: ±8kv contact discharge, ±15kv air gap discharge
- LC filters on RS232 RxD and TxD lines
- USB bus powered, 17.9mA
- Panel mounting
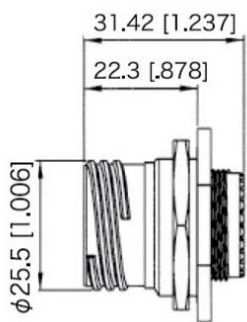- Fixed and programmable RS232 settings

Specifications

USB	USB specification 2.0 compliant
	USB type A receptacle connector
	USB full speed 12Mbps transmission
RS232	Signals: RxD, TxD, GND
	Receiver RxD input voltage range: -25v to +25v
	Transmitter TxD output voltage swing: -5.7v to +5.7v
	Connector: 3 wires of 30cm
	Baud rate: 1200bps to 115200bps
	Parity: Even, Odd, None, Mark, Space
	Data length: 5-bit, 6-bit, 7-bit, 8-bit
	Stop bits: 1-bit, 2-bit
Grounding	USB connector is floating. USB shield is extended with a green wire.
Power	USB bus powered, 17.9mA
Software	32-bit and 64-bit virtual COM port device driver for Microsoft Windows 8, Windows 7, Windows Vista, Windows XP.
Mounting	Panel mount with panel gasket included
Vibrations	10 – 500 Hz, 10 g, 3 axes: no discontinuity > 1micro s
Shocks	IK06: weight of 250 g drop from 40 cm onto connectors (mated pair)
Coupling	Thread coupling mechanism (MIL-DTL-38999 series III type) with antidecoupling device
Shells	Aluminium shell, Nickel plating, ROHS compliant
Plugs	USB A plug to IP67 sealed USB A plug, 5 meter, shielded

Part Number		
	CS50070, CS50071, CS50072	RS232 programmable, support all settings.
	CS50070-96, CS50071-96, CS50072-96	RS232 setting: 9600bps, 8-bit, No parity, 1-bit stop.
	CS50070-19, CS50071-19, CS50072-19	RS232 setting: 19200bps, 8-bit, No parity, 1-bit stop.
	CS50070-11, CS50071-11, CS50072-11	RS232 setting: 115200bps, 8-bit, No parity, 1-bit stop.

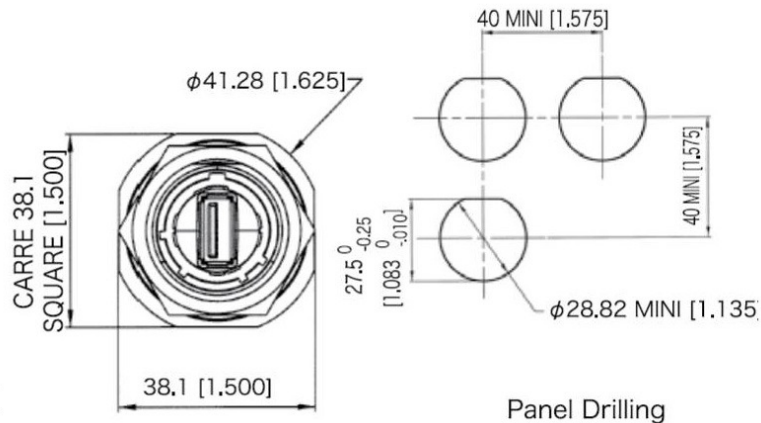| Operating temperature range:	
	CS50071 -40°C TO +85°C
	CS50072 -40°C TO +85°C
	Plugs 0°C TO 80°C

DEVICE FUNCTIONS

RS232 Connector Definition

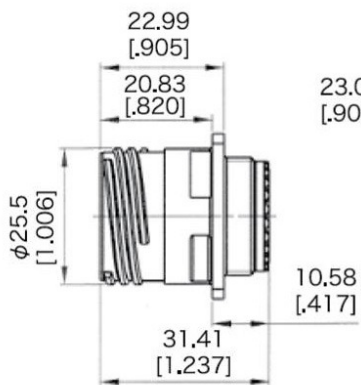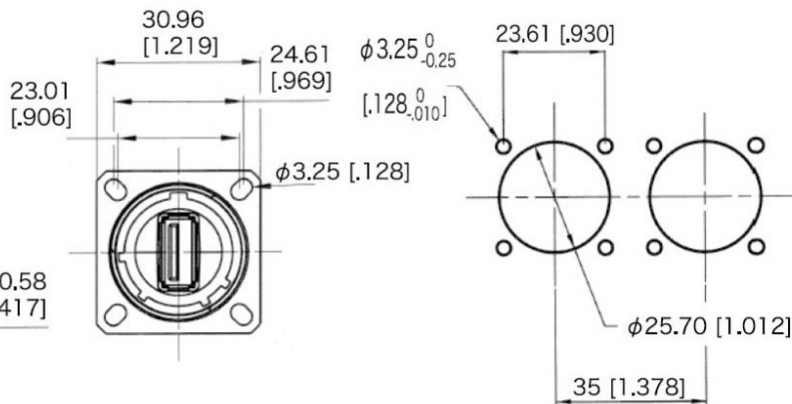

Drawings (mm)

CS50071

Panel Drilling

CS50072

Panel Drilling

Software Installation

The software package is supplied in a compressed folder file named *USB_COM_1P_Driver* or a CD. Here are the installation steps.

1. If you have file *USB_COM_1P_Driver*, rename *USB_COM_1P_Driver* to *USB_COM_1P_Driver.zip*, extract all files to a file folder on your local disk or USB drive, double click *setup.exe* to start software installation.
2. If you have the software CD, insert the software CD into your computer's disc drive, the software installation will start automatically.
3. Follow the on-screen instructions until the setup wizard finishes.
4. Connect USB module to the computer's USB port with an USB cable.
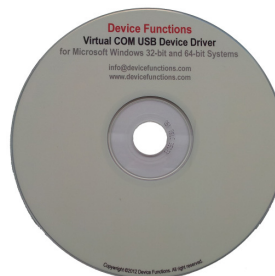

DEVICE FUNCTIONS

5.   Follow the on-screen instructions if any to complete the software installation.

Accessory

SWD001
Virtual COM USB device driver CD
The virtual COM port device driver supports 32-bit (x86)
and 64-bit (x64) Microsoft Windows 8, Windows 7,
Windows Vista, Windows XP.

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