Hardware Setup
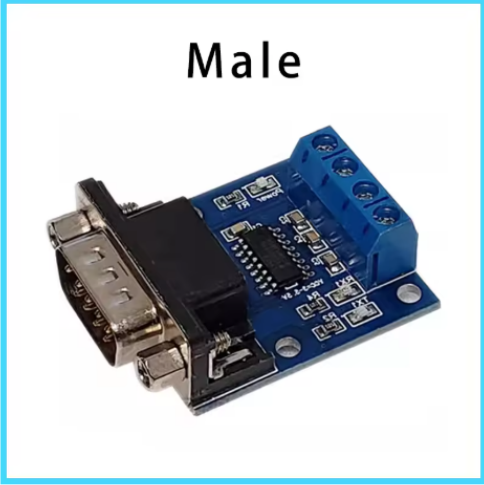
Use a DB9 connector one similar to this. I had to remove the terminal posts as AMP also has posts.

This has Vcc, Ground and RX,TX which need to be connected to esp 5v, Ground and TX,RX (RX>TX and TX>RX)

Software Setup

Update the esp code and copy the file named uart_read_line_sensor.h to \\HomeAssistant\config\esphome\source

In HA create the dashboard or add to existing, I have included the one I have used. As I have CambridgeAudio CXN100 as the amp source and this is natively supported by the HA, I have setup few automations to power the amp On/Off based on CXN powering on and then selecting the correct input, XLR input.

As EdgeA RS232 command set does not provide vol up and down, but having to specify absolute volume level from -99dB to 0dB large chuck of code is for obtaining current vol level and then adding or subtracting 3dB for each press and then passing that back as absolute level. I have also created few pre-set volume level buttons, as these can be used in automations to map a certain input to set volume level for example, similar to what EdgeA remote provide with its bottom custom buttons.