

## Contact Closure

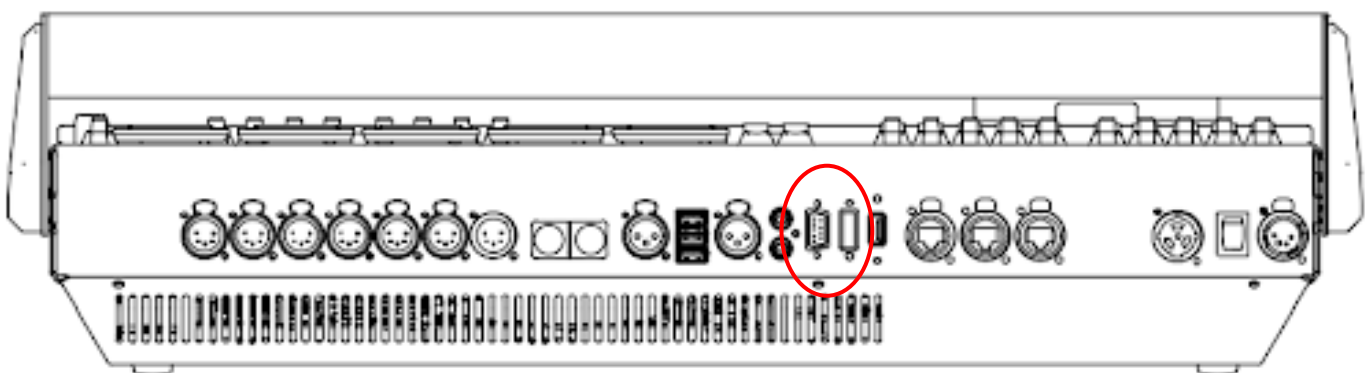
Contact closure is the system in which an external trigger can make something happen on the lighting desk. It works by sending a 5v signal out the pin and waiting for a response in the form of the circuit being complete and sending that 5v signal back to the desk. This could be done through anything that can be used to complete the circuit.

At TSL, we have a number of items for contact closure and a number of different desks that it can work on. This document will indicate the difference between the Desks and the types of contact closure that we offer.

### GrandMA3

The GrandMA family of desks that we offer all have the same contact closure systems in place. On the back of the desks, there is a 9 pin D-sub connector Labelled “DC Remote In”. This is the back of an MA compact to give an example.

The MA can take up to 7 channels of contact closure per desk via this D-Sub connector. The specific Pinout can be found on the MA website [here](#).



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## Avolites

The Avolites desks use GPIO for their contact closure and it is only available on the Tiger Touch 2 and the Sapphire Touch. They are capable of doing one channel of contact closure per desk through a quarter inch headphone socket on the back of the compatible desks.



The Guide for Avolites contact closure can be found [here](#).

## Chamsys

The Chamsys MQ70 Compact has a standard 4 Pin MiniDin connector on the rear of the unit for connecting a contact closure system. It is able to take 2 channels of contact closure through this port.



The manual for this can be found [here](#).

## Luminex

The Luminode 12 is capable of taking contact closure commands as well. It is able to take 1 channel of data through the adapter port on the rear of the unit. The manual can be found [here](#).

## What does TSL offer?

We offer the ability to use contact closure on all of the desks that support it in our range. These are the ways that we have to connect your contact closure system to the desks. Note that all of our adapters have a 5 Pin XLR cable on the end to allow you to use standard DMX cables between the desk and contact closure device. The adapters we have are:

- MA3 7-way Remote 9pin D-Sub (XLR5 M) - GrandMA3
- MA3 Single Way Remote 9pin D-Sub (XLR5 M) - GrandMA3
- Quarter Inch to DMX Adapter Cable - Avolites
- MiniDin to DMX Adapter Cable - Chamsys
- 2 pin Terminal Adapter - Luminex Luminode

We do also offer some items that can be used as triggers for these systems. Again all wired to DMX. These include:

- Big Red Button (85mm X 85mm X 45mm)
- Foot Pad switches

We are happy to make new items for your project to ensure that it is fully compatible with the system.