



# SG4 Extended Connection



## How to connect the SG4E - What's included in the package

The package includes Emitter + Receiver + Fixing Brackets.

The Light Curtain is delivered as you can see in the picture below:



## How to connect the SG4E - Pig-Tail cables

In order to connect the Light Curtain to the standard M12 connectors, is necessary to use a pig-tail cable, which isn't included in the package.

The **emitter** has only one model of pigtail cable:

**CS-G1-50-B-002** TX Pig-tail 0,2m  
(with a M12-5 poles connector at the end)

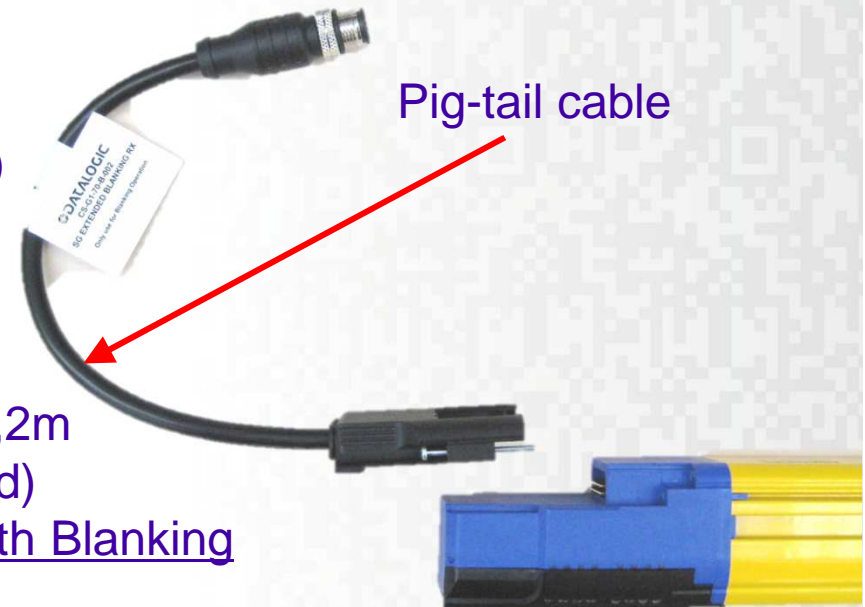
The **receiver** has two different model of pigtail cable:

**CS-G1-70-B-002** RX Blanking Pig-tail 0,2m  
(with a M12-12 poles connector at the end)

It must be used in case of applications with Blanking

**CS-R1-75-B-002** RX Muting Pig-tail 0,2m  
(with M12-12 poles + M12-4 poles connectors at the end)

It must be used in case of applications with Muting

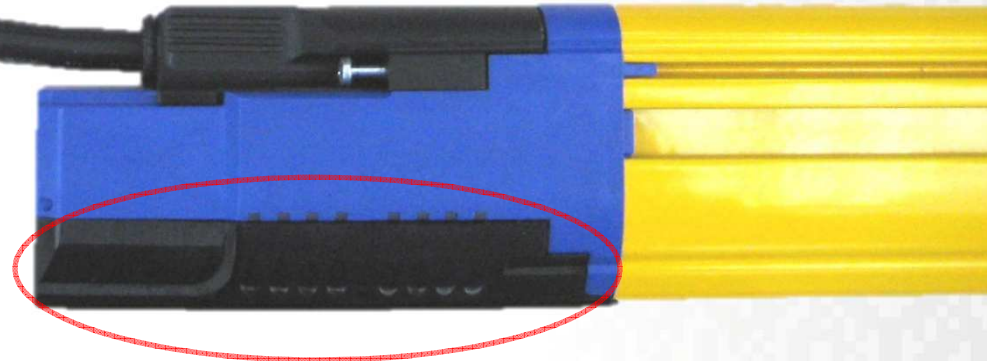




## How to connect the SG4E - Pig-Tail cables



Insert the pig-tail in the LC on **Bottom side (leds and push-buttons side)** and screw in the fixing screws.



**LEDs side**

## How to connect the SG4E - M12 cables

In order to complete the connection, it is necessary to buy also the M12 cables:

- 5 poles for the emitter
- 12 poles for the receiver

Consider that, in case of muting applications, you may need an additional 4 poles cable (necessary to connect muting sensors)



M12 cable

## How to connect the SG4E - Terminator Cap

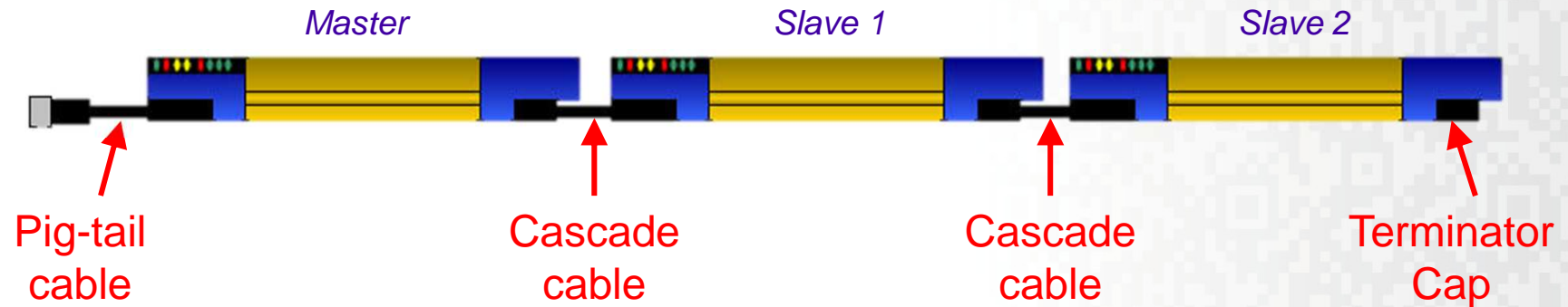
The Terminator Cap must be always present on the top side of the LC (the side without LEDs), except for the following reasons:

- Cascade applications (anyway the Terminator Cap must be installed on the last slave)
- Temporary connection of Dongle



Terminator Cap

## How to connect the SG4E - Cascade Connection



The Cascade connection can be made using 2 or 3 Light Curtain (standard model), also with different length and different resolution (please refer to the User Manual).

The connection between the light curtains needs a Cascade Cable, available with 3 length:

- **CS-F1-80-B-01** Cascade Cable 1m
- **CS-F1-80-B-005** Cascade Cable 0,5m
- **CS-F1-80-B-0005** Cascade Cable 0,05m

The cascade cable has to be connected between a Top side (without LEDs) and a Bottom Side (with LEDs) of two SG4E light curtain.



## How to connect the SG4E - Dongle Connection

The Dongle is necessary only if you want:

- Program the light curtain in ACM (Advanced Configuration Mode)
- Clone an ACM configuration
- Save error LOG files
- Monitor the status of the light curtain

Is possible to connect the Dongle to both side of light curtain (Bottom or Top), but is necessary to pay attention because there are some difference.

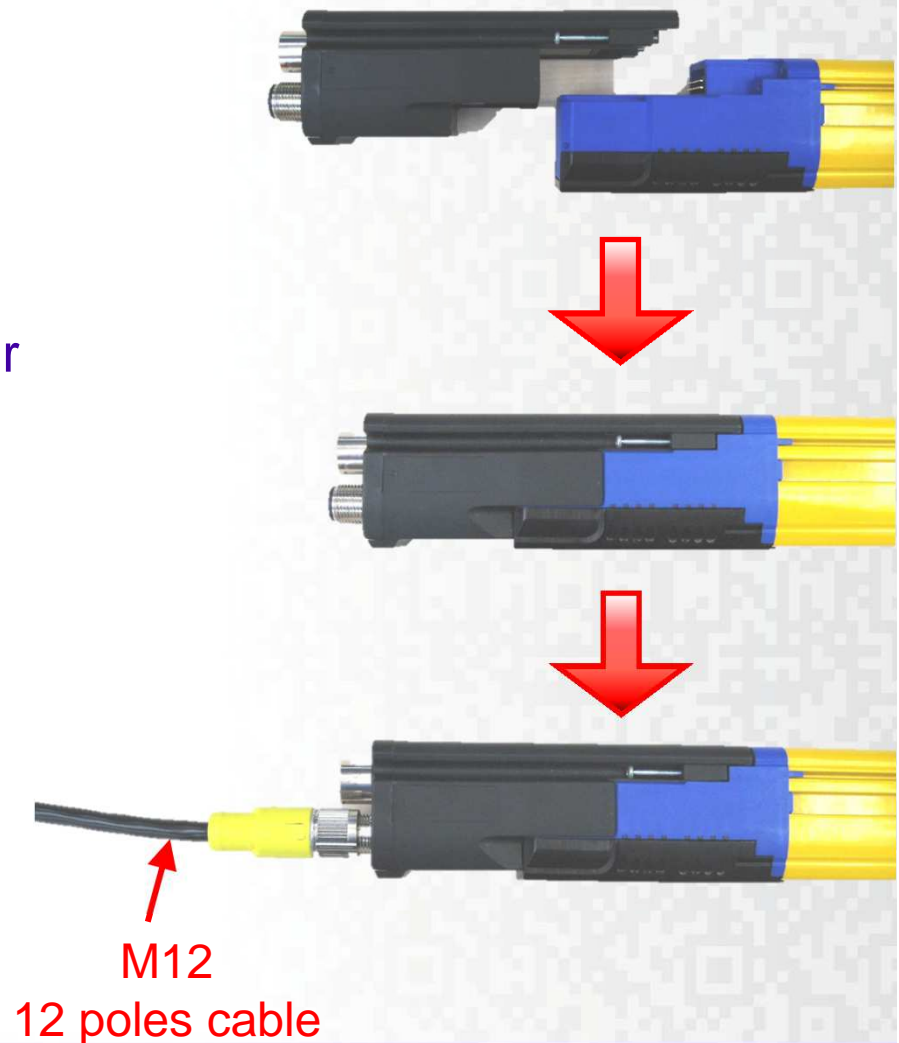




### **Bottom connection**

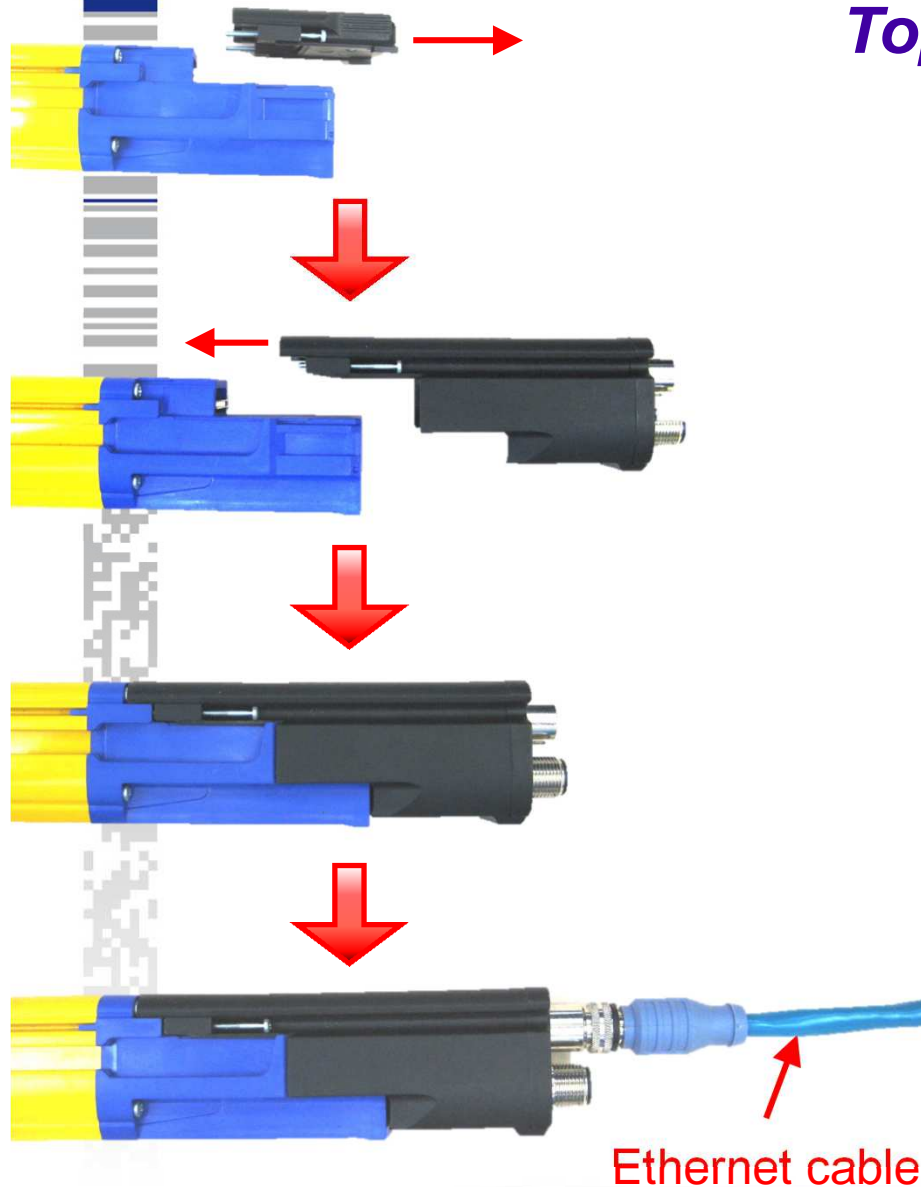
Connecting the Dongle on the Bottom side (LEDs side) of the Receiver, the Pig-Tail is no longer necessary because you must connect the M12 cables (with power supply, I/O, etc.) directly on the Dongle.

This is the preferred connection in case the Dongle should remain permanently connected to the light curtain.



## How to connect the SG4E - Dongle Connection

### Top connection



Connecting the Dongle on the Top side (the side without LEDs) of the Receiver, the Terminator Cap is no longer necessary.

However, you must continue to use the Pig-tail cable on bottom side of the receiver, because with the Top Connection is only possible to connect the Ethernet cable.

This is the preferred connection when the Dongle is connected to the light curtain only temporarily (e.g.: configuration).