5.3 Installing a GSI 124 Unit

Refer to section 5.1 - General Precautions and Considerations, page 5.1 before reading further.

5.3.1 Mounting

The GSI 124 galvanic separation unit is generally mounted in an industrial housing, a rack or a cabinet. The GSI 124 can be clipped simply to a DIN rail. See Figure 5-3.

NOTE : A GSI 124 can be fixed to a symmetrical DIN Rail (Din-35S1 or Din-35HS1) but also to a asymmetrical DIN rail.

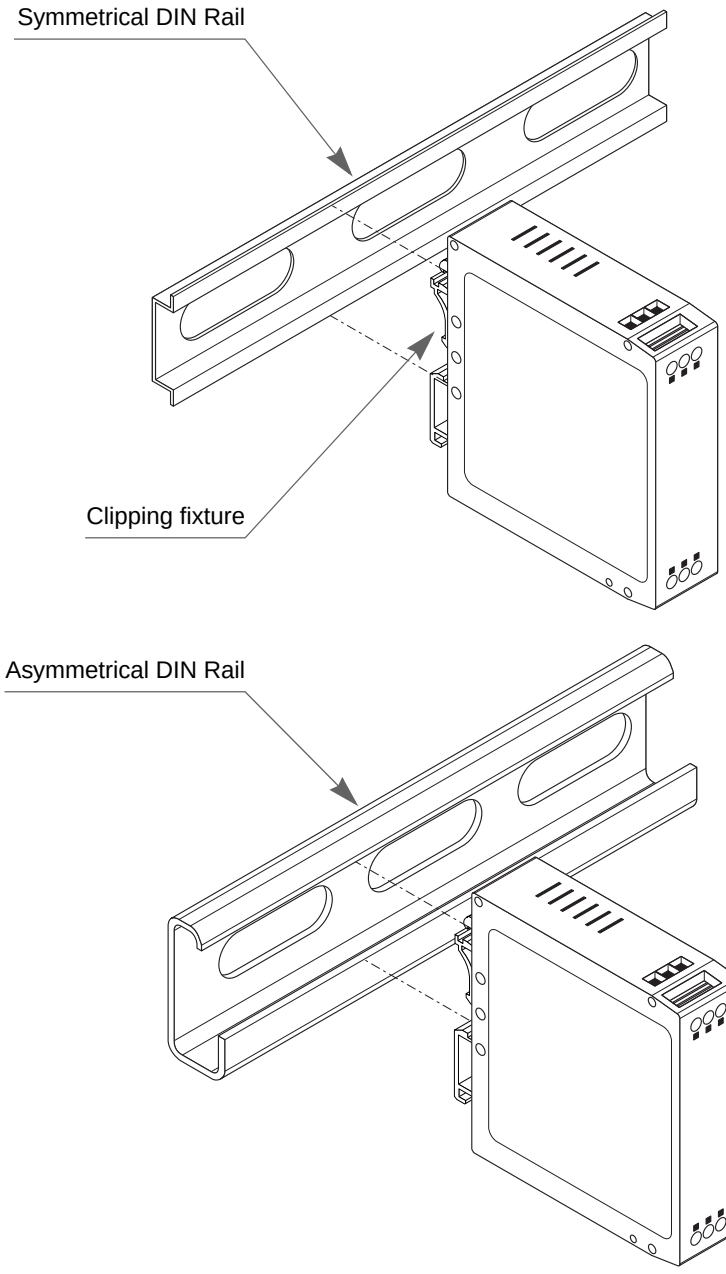

Figure 5-3 : Fixing a GSI 124 galvanic separation unit to a DIN rail

5.3.2 Connecting Cables to the GSI 124 Galvanic Separation Unit

The transmission cable (from the signal conditioner) and the connecting cable to the monitoring electronics are both connected to the GSI 124 using the screw terminals provided on the unit (see Figure 5-4). There are 3 screw terminals for the transmission cable (labelled “SHIELD”, “-” and “+”) and 3 for the connecting cable (labelled “+24V”, “0V” and “OUT”).

NOTE 1 : The shielding of the transmission cable MUST BE CONNECTED to the galvanic separation unit.

NOTE 2 : The unit MUST BE GROUNDED to the rail on which it is fixed. Refer to the illustrations Figure 5-4 below, Figure 6-1, page 6.2 and Figure 6-2, page 6.3.

See also paragraph 5.4.2 - Connecting a new GSI 124 in replacement of an old GSI 122/130, page 5.7.

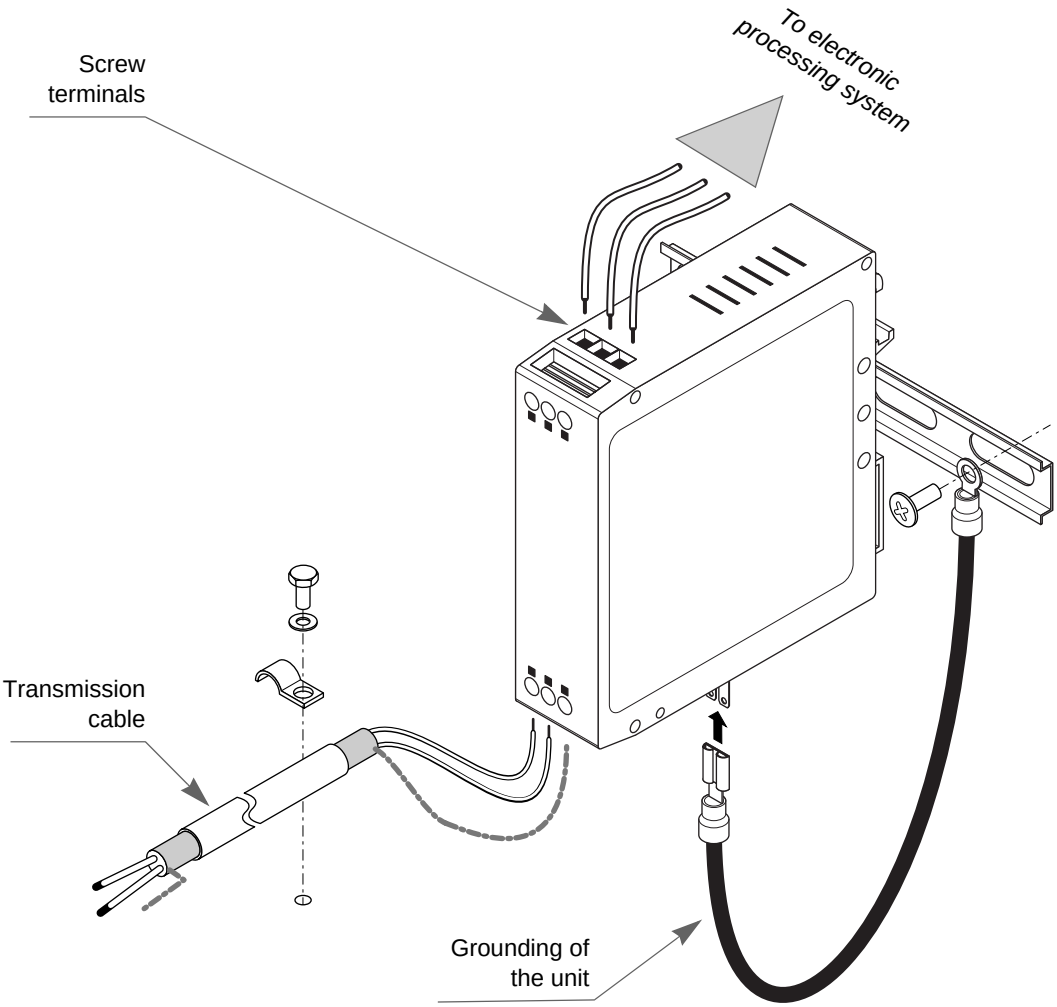

Figure 5-4 : Connecting cables to a GSI 124 galvanic separation unit

5.4 Replacing a GSI 122/130 by a GSI 124

5.4.1 Procedure for disassembling an old GSI 122/130 and fixing a new GSI 124

1- Refer to section 5.1 - General Precautions and Considerations, page 5.1 before performing further steps.

2- Switch power off.

3- Use Table 5-1 and take note of the numbers or the color used for each wire connected to the unit and the corresponding terminal designation it is connected to.

Transmission cable end				Electronic processing system end			
Terminal GSI 122 or GSI 130	**Wire Nr.**	**Wire Colour**	**Terminal GSI 124**	**Terminal GSI 122 or GSI 130**	**Wire Nr.**	**Wire Colour**	**Terminal GSI 124**
4			**+**	1			**Signal**
5			**-**	2			**OV**
			SHIELD	3			**+24 V**

Table 5-1 : Wire identification

4- Pull the 3 AMP Faston 6.3 lugs in order to disconnect the wires connecting to the electronic processing system.

5- Pull the 2 AMP Faston 6.3 lugs in order to disconnect the transmission cable connecting to the IPC 704 signal conditioner.

6- Release the M4 fixation screw until the old GSI unit is free.

7- Disassemble the mounting plate from the rail.

8- Re-use the existing rail or fix a new one.

NOTE : A GSI 124 can be fixed to a symmetrical DIN Rail (Din-35S1 or Din-35HS1) or to a asymmetrical DIN rail.

9- Clip the new GSI 124 to the rail.

5.4.2 Connecting a new GSI 124 in replacement of an old GSI 122/130

1- Switch the power off.

2- Follow the procedure given in section 5.4 - Replacing a GSI 122/130 by a GSI 124, page 5.6 in order to disassemble the old GSI 122/130 units.

3- Cut the 5 wires at the back of the AMP Faston 6.3 lugs.

4- Strip the transmission cable in order to get a sufficient length of shielding cord.

5- If necessary, adapt le length of the transmission cable. Refer to paragraph 3.1.3- Preparation of a Soft-line Low-Noise Cable Extremity.

6- Strip the end of the 5 wires on a length of 5 mm.

7- For each wire to connect :

- Check the terminal it has to be connected with respect of the note you took before the disassembly of the old unit. Refer to step 3- above.
- Connect the wire.

8- Install the grounding of the unit as illustrated on Figure 5-4.

THIS PAGE INTENTIONALLY LEFT BLANK