



SDI-12 Terminal Bus Kit

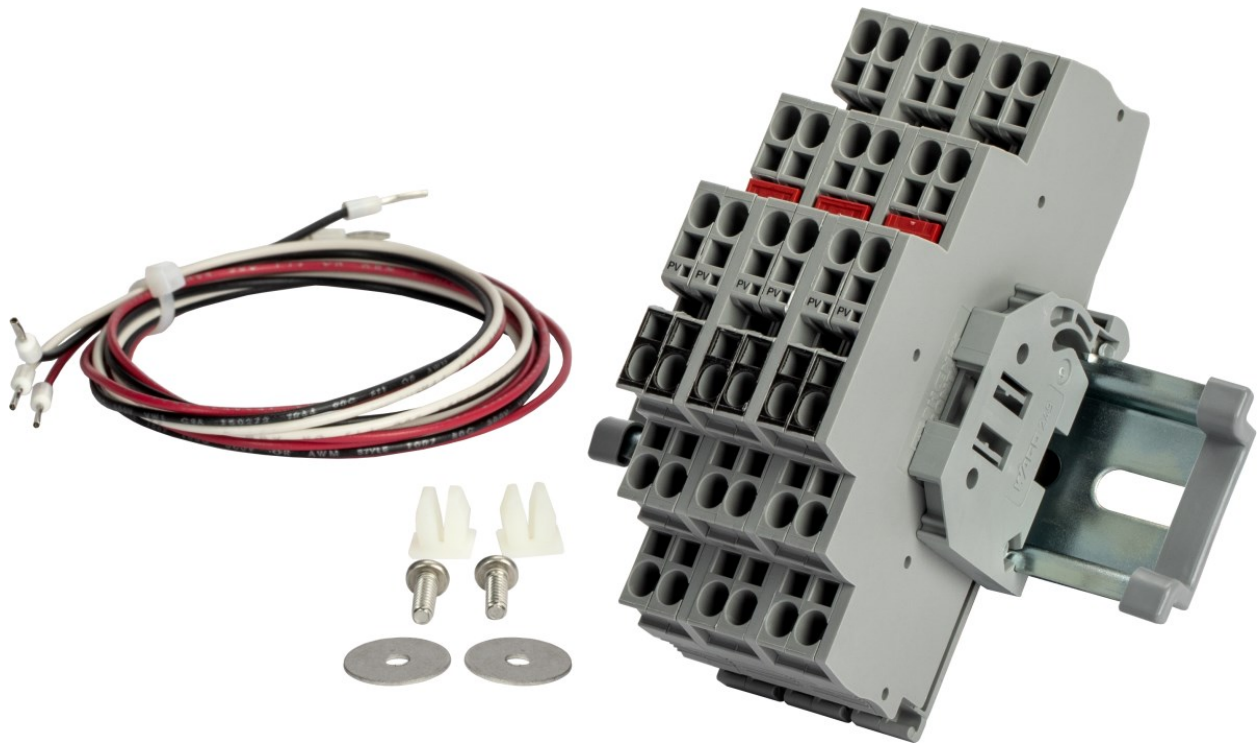


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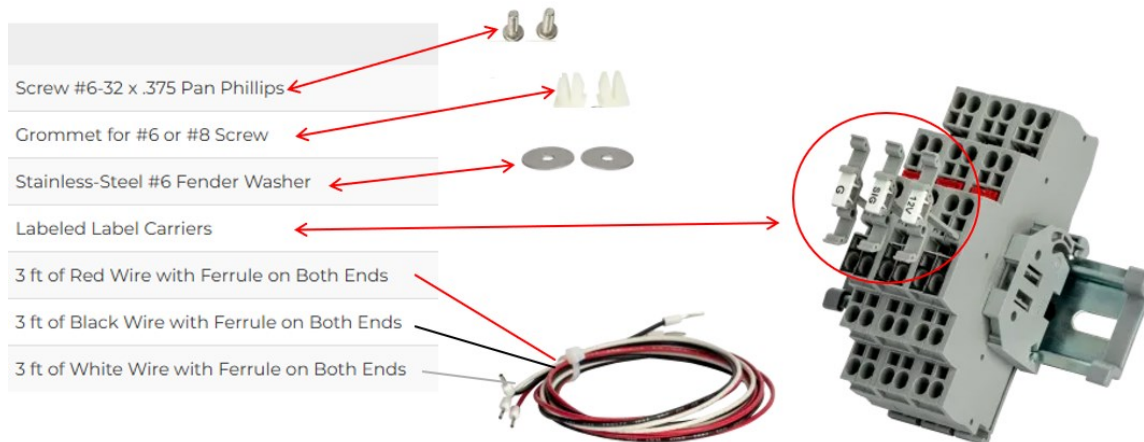
1. Overview

The SDI-12 Terminal Bus Kit simplifies the process of connecting multiple SDI-12 sensor wires to a single set of terminals on a data logger. It includes six DIN-rail mountable, 6-wire terminal blocks and is designed to jumper two connectors together at a time. This configuration enables the connection of up to 11 SDI-12 sensors to a single set of terminals on a data logger.

2. Parts

The kit ships with:

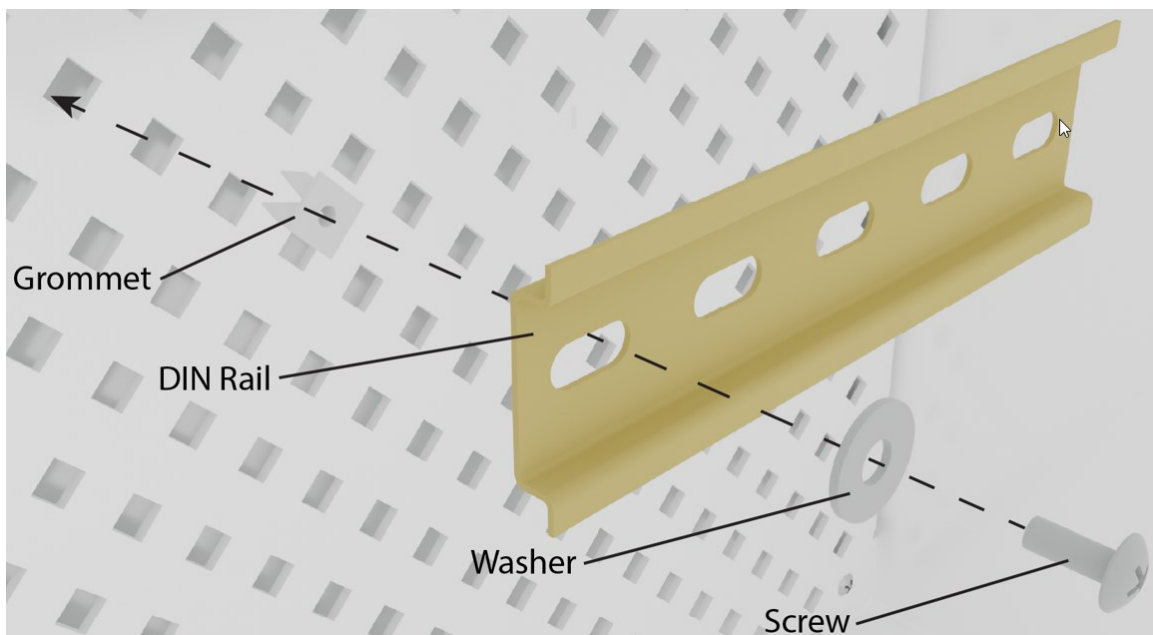
- 2 # 6 screws
- 2 grommets
- 2 stainless steel washers
- 3 labeled label carriers
- 3 ft of red wire with ferrules on both ends
- 3 ft of black wire with ferrules on both ends
- 3 ft of 3 ft of white wire with ferrules on both ends



3. Mounting in an enclosure

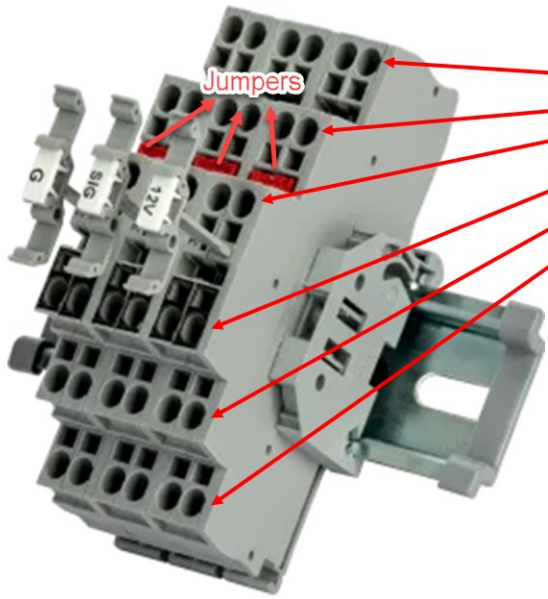
Follow these steps to mount the terminal bus to an enclosure backplate:

1. Identify the required holes on the enclosure backplate for securing the terminal bus.
2. Insert a plastic grommet into each selected hole.
3. Place a washer onto a screw, then insert the screw (with the washer) through the correct slot of the DIN rail.
4. Secure the DIN rail to the backplate by screwing the screw into the grommet.
5. Repeat the process on the other end of the DIN rail.



4. Internal bus connections

The red jumpers connect two, 6-socket modules, creating a total of 12 sockets. With the jumpers in place, all 12 sockets receive a 12 VDC supply.



With jumpers in place, all sockets in a row are connected internally

5. Connecting sensors to the data logger

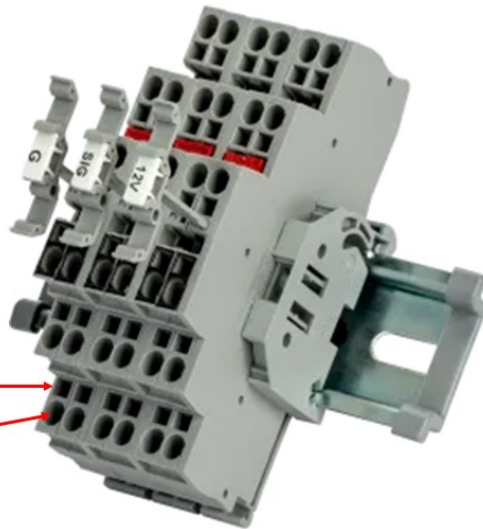
Insert a flat-blade screwdriver into the square openings on the terminal bus to release the spring tension. This allows insertion of a wire in the adjacent round port.

Small flat-blade screwdriver →



Insert screwdriver here (square opening) →

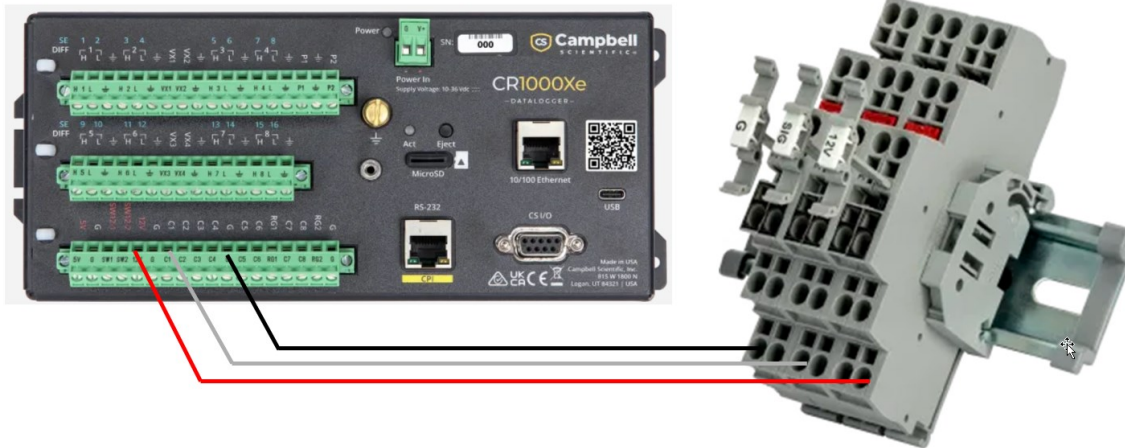
Insert wires here (round opening) →



One of the 12 sockets connects the data logger to 12V, a C terminal (sensor signal), and G (power ground). This setup allows up to 11 additional sensors to be connected to the same C terminal.

NOTE:

Each sensor connected to a single C terminal must have a unique SDI-12 address. Valid address ranges are 0 through 9, A through Z, and a through z.



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