



M 12 Plug-in Connections

Retrofit Set



EN
English

Original Installation Instructions
818900-00

Important Notes

Explanatory Notes

From 2nd January 2006 all Spector Bus measuring sensors will be supplied complete with M 12 sensor plug-in connectors, with 5 poles, A-coded. For connecting the bus devices control cable assemblies (with plug and socket) of various lengths are available as add-on equipment. With this retrofit set measuring sensors that are already installed can be retrofitted.

Safety note

The modification must only be carried out by qualified and competent staff.

Scope of supply

- 2 Reducer M20 / M16
- 1 M 12 sensor plug, 5 poles, A coded
- 1 M 12 sensor socket, 5 poles, A coded
- 1 Plug connector, 5 poles (with tension-spring clamp terminals)

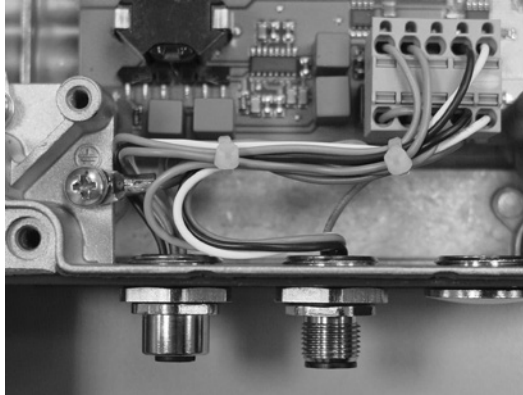
Retrofitting

Instructions

1. Undo the cover screws and take off the housing cover. The arrow on the name plate points towards the cover to be removed.
2. Detach plug connector, note down colour and assignment of the cables.
3. Disconnect bus lines and pull them through the cable glands. Unscrew cable glands.
4. Cut conductors of plug and socket to 100 mm and strip off 6 mm of the end insulation.
5. Screw in reducers, plug and socket and use an open-end spanner (US: wrench) to fasten them. (for reducer use open-end spanner (US: wrench) A. F. 22 mm, for plug / socket use open-end spanner (US: wrench) 17 mm)
6. Connect conductors to plug connector as indicated in the following table:

Plug connector terminals no.	Colour of conductors
1	blue
2	grey
3	–
4	black
5	white

7. Assemble brown conductors in a ring terminal cable lug. Screw in cable lug at the earthing point.
8. Attach cable tie – see picture.
9. Put housing cover back in place, fasten cover screws and make sure that the cover gasket is fitted correctly.



Electrical Connection

Bus cable

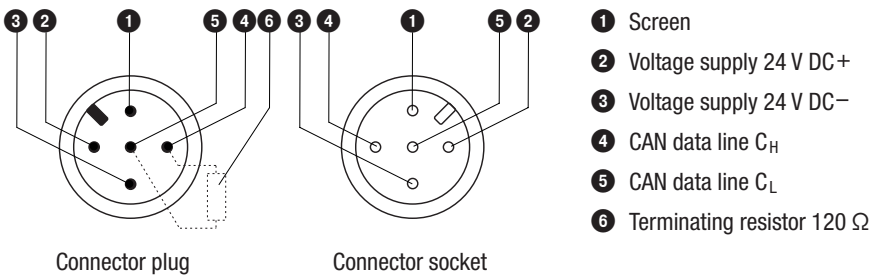
If the control cable assemblies are not used for connecting the sensor, the bus lines must be provided with a Plug and socket. Plug and sockets for bus lines are available as optional extra.

The same applies to the connection of the measuring sensor with the control unit.

Connect the plug / socket according to the wiring diagram.

Note that screened multi-core twisted-pair control cable, e. g. UNITRONIC® BUS CAN 2 x 2 x .. mm² or RE-2YCYV-fl 2 x 2 x .. mm² **must** be used for the Bus line.

Wiring diagram



Note

Please connect the screen of the Bus line also to Pin 1.

If two or more system components are connected in a CAN bus system, provide the first and the last device with a terminating resistor of 120 Ω (Pin 4: C_H, Pin 5: C_L).



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