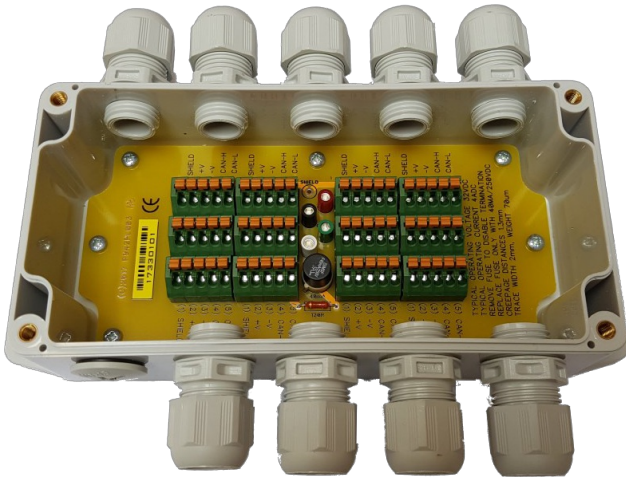


## JUNCTION BOX

### For dedicated applications

There are CAN junction boxes for special-purpose applications in maritime, wind-power systems, etc. on the market. They are designed to simplify the CAN wiring.



12-port CAN junction box (Source: Whitebeam)

Sinbon (China/Taiwan) provides a CAN junction box with M12 connectors intended for wind CAN-connectable sensors in wind turbine main control systems. The product comes in an IP67-rated housing. It features four to eight channels.

The FI-5002 junction box by Furuno (Japan) is designed without T-connectors. It has 120-Ohm terminal resistors, six terminal blocks for the connection of up to six CAN devices, and two terminal blocks for the connection of CAN backbone cables. The junction box is not waterproof, although it is specially developed for NMEA 2000 CAN networking.

There are different junction boxes available. Some are similar to generic I/O modules, but they provide multiple CAN ports. Often, they address specific applications. Others provide bridge/switch functionality. In this case, one CAN segment is used to configure it or there is an additional EIA-232 configuration interface, for example.

The CAN junction box by Whitebeam (Netherlands) comes with six or 12 cable segments accessible by means of 5-pole spring terminal connections. The connections are mounted in an IP67/NEMA4X-rated polycarbonate enclosure with M16 holes for cable glands. The integrated termination resistor and the 2-mm multi-meter probe-points allow for configuration and diagnostic of the network wiring. The product is Atex-approved. Atex is the worldwide-referenced EU regulation for electrical devices to be used in areas with an explosive atmosphere. The company also offers CANopen support and other network infrastructure components.



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CAN junction box with M12 connectors (Source: Sinbon)