


NMEA 0183 Connector

8 CONNECTIONS AND INSTALLATION

◇ Connector information

NMEA 0183				
				
Pin	Pin name	Specification	Sentence format	Description
1	GND	-	-	Connects to ground.
2	NMEA IN (-)	Input level: Less than 2 mA (at 2 V applied)	-	Connects to the NMEA input/ output connector of a transceiver to output GPS data, or to transmit an Individual DSC call. (p. 31)
3	NMEA IN (+)			
4	NMEA OUT (-)	Output level: 5 V/40 mA (maximum) (RS-422 balanced type)	GGA, GNS, GLL, GSA ^{*1} , GSV ^{*1} , RMC, VTG, GBS, DTM, DSC	The data communication speed (baud rate) can be selected between 4800 bps (IEC61162-1) and 38400 bps (IEC61162-2) for each Input/Output port. (Default: 4800 bps)
5	NMEA OUT (+)			
6	AIS OUT (-)	Output level: 5 V/40 mA (maximum) (RS-422 balanced type)	VDM, VDO, ACA, ACS, ALR, TXT, GGA ^{*3} , GNS ^{*3} , GLL ^{*3} , RMC ^{*3} , VTG ^{*3}	Connects to a plotter device or marine radar to output the received AIS messages and GPS data. The data communication speed (baud rate) is fixed at 38400 bps (IEC61162-2).
7	AIS OUT (+)			
8	EXT GPS IN (-)	Input level: Less than 2 mA (at 2 V applied)	GGA, GNS, GLL, RMC, VTG, GBS ^{*2} , DTM	Connects to an external GPS receiver to input GPS data. The data communication speed (baud rate) can be selected between 4800 bps (IEC61162-1) and 38400 bps (IEC61162-2). (Default: 4800 bps)
9	EXT GPS IN (+)			
10	TX OFF	Active: Connect to ground	-	Connects to a switch button to turn OFF the TX function. When a short occurs between pins 1 and 10, transmission is inhibited.
11	ALERT	Load rating: DC 3.3 V/1 mA (maximum)	-	An active logic is set to High level while an alarm sounds if a malfunction occurs, an AIS target is closer than your CPA and TCPA settings, or so on.
12	NC	-	-	-

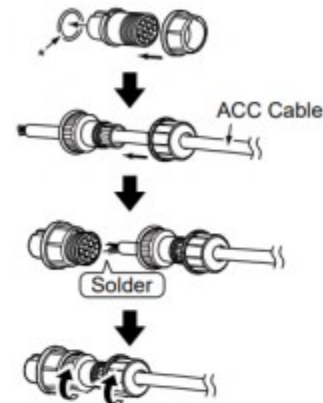
*1 Only 38400 bps.

*2 When a received GPS signal does not include a GBS sentence, the transponder will not receive the signal from the external GPS receiver.

*3 May not be sent, depending on the presetting.

◇ Accessory connector set up

The accessory connector is used on the accessory cable.

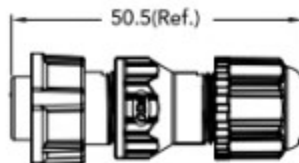


* Be sure to set this ring to keep the waterproof capability.

ODS Electronics

Circular CCB

CCB Field Installable Solder 5/8"-27UNS, Straight, IPX7 (Mated)



Features and Benefits

- Female Connector, Female Pin
- Size 5/8"-27UNS
- 3-Point Bayonet Lock
- Also available in Screw Thread type and 2-Point mating type
- Hybrid Connectors available for Power+Data in one
- Configurable & customizable

Part Number	Contact	Current	Voltage	Cable Range
CCBDF12FBB-KLS7001	12Pin	2A	50V	Φ4.5mm~Φ6.5mm