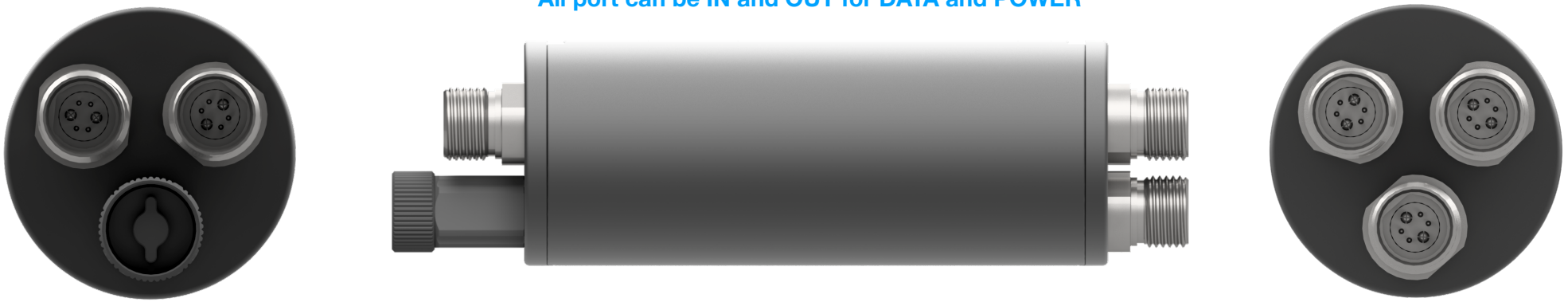
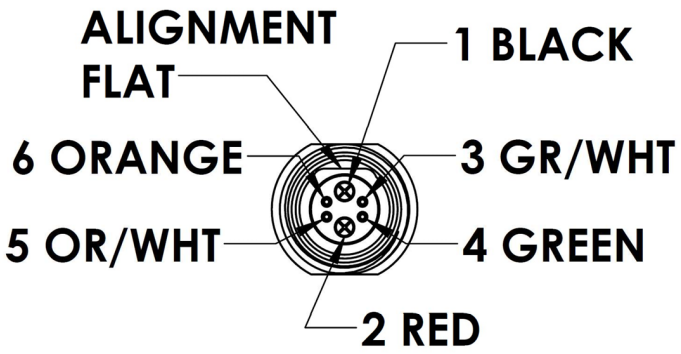
UNDERWATER JUNCTION BOX – 100Mb SWITCH USER GUIDE

This Underwater Junction Box is a subsea 100 Mb Ethernet switch that connects up to four devices through 6-pin hybrid connectors carrying both data and DC power. A single 9–36 V DC supply, applied to any one of the five ports, is passed through unchanged to the four remaining ports, so each connected device is powered from the same source as the switch itself. Only one port may serve as the power input at a time, and the input voltage must not exceed 36 V DC.

All port can be IN and OUT for DATA and POWER



6-PIN HYBRID



PIN	FUNCTION
1	GND IN / OUT
2	9-36V VCC IN / OUT
3	TX +
4	TX -
5	RX +
6	RX -

Parameter	Value
Depth rating	1000 m
Dimensions / weight	Ø50×177.5 mm - 460g in air / 180 g in seawater
Power pass-through	20A total max. shared across outputs.
Switch power	<1W (typ. ≈ 0.6 W at 100 Mb)
Connectors	5×6-pin hybrid - COB-116H0-R1
Operating temperature	0 °C to +70 °C