WL-21005
RECEIVER-D1

DESCRIPTION
The Receiver-D1 is a digital low-noise, high sensitivity hydro acoustic receiver that converts acoustic waves to a digital data stream.

The receiver is equipped with a wideband analog front-end width a large dynamic range followed by advanced digital signal processing functionality.

The electrical interface complies with the Water Linked D1 communication standard.

BENEFITS
- Extremely small footprint enabling easy integration in other equipment.
- Highly robust operation in areas with reflections (shallow water, around installations etc.)

CONTENTS
- Receiver-D1 with customer specified cable length
- Optional connector

FAMILY
The Receiver-D1 is part of the Water Linked Underwater GPS System.

WL-20118 MASTER-D1
The Master D1 is the digital position computing board. The Receiver-D1 connects to the Master-D1 using a cable. The Master-D1 connects to your PC. The Master-D1 is a requirement in a positioning system.

The Locator-A1/D1/U1 are hydro acoustic locator devices that transmits acoustic waves which the Receiver-D1s will receive. A minimum of 3 Receiver-D1s are required to get the position of a Locator-A1/D1/U1.
MECHANICAL
Depth rating : 300 m
Device length : 71,4 mm
Device diameter : 20 mm
Device weight in air : 36 g
Operating temperature : -10 to 60 °C

ELECTRICAL
Input voltage : 10-18 V
Input current : 35 mA

ACOUSTIC
Range : 100 meter
Directivity : Omnidirectional

CONNECTORS
Max cable length : 100 m
Signaling : 2x twisted pairs
Cable type : PUR 6,3 mm
Cable connector : Binder Series-770 (IP67) or none

APPROVALS
RoHS compliant
CE

BLOCK DIAGRAM

DIMENSIONS

ORDERING GUIDE

PART NUMBER
CONNECTOR TYPE
B Binder Series-770 IP67
N None

CABLE LENGTH
001 1 m
005 5 m
010 10 m
025 25 m
050 50 m
100 100 m

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