

# WIRE LENGTH MEASUREMENT **WLM 5 UW** PRODUCT SHEETS

The WLM 5 UW sensor: highly accurate distance measurement in harsh dredging and subsea environments.



# SELECTION & OPTION LIST

For every WLM sensor the following configuration items must be determined:

- **Data output format.** In its standard configuration the WLM 5 UW can be executed with either a 4 – 20 mA current output signal, or a 0-10 V voltage output signal. Other (digital) output data formats, such as CAN bus, Profibus, and SSI are available upon request.
- **Measurement range.** In order to maximize measurement accuracy, the WLM sensor will be set to a pre-specified measurement range which can be up to 5 meters.

The following features are options:

**A Precursor wire length**

Adding precursor wire length allows for increasing the distance between the sensor and the measurement starting point.

**B Cable assembly**

The sensor can be supplied with custom-made cabling in a variety of lengths, allowable loads, and connector types.

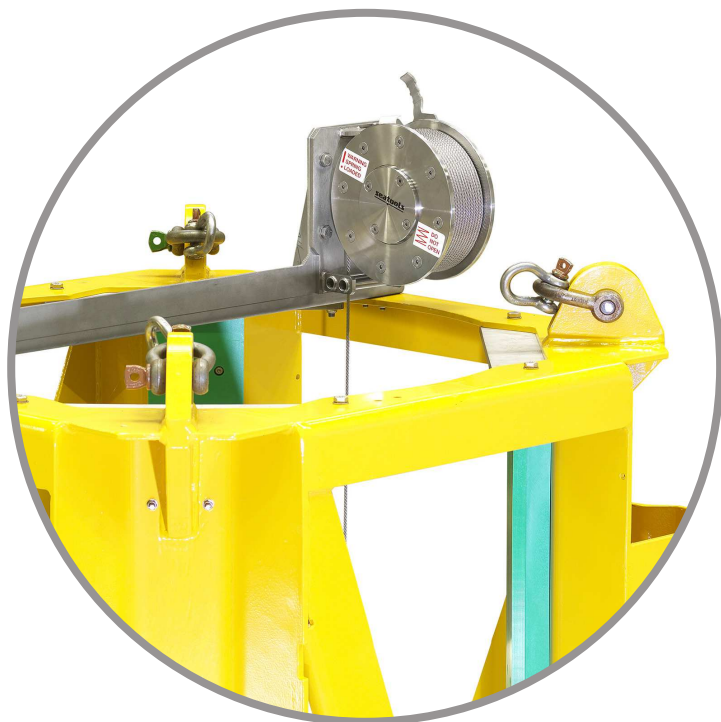
**C Connector type**

The sensor is supplied standard with a Subconn® Metal Shell connector. Other connector types are available upon request.

# TYPICAL APPLICATIONS

The WLM sensor range is specifically designed for stroke and distance measurement in offshore, dredging, and subsea applications, including:

- Spud pole position measurement
- Suction tube position measurement
- Hydraulic cylinder stroke measurement
- Subsea reservoir level measurement



WLM 5 UW sensor installed on subsea reservoir for level measurement

# WIRE LENGTH MEASUREMENT 5 UW SPECIFICATIONS

## GENERAL

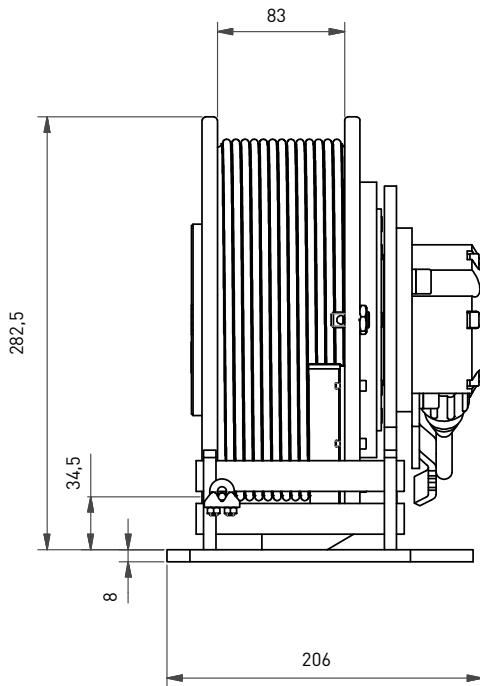
	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing / frame	Stainless steel 316L	
Weight in air	± 25 kg	± 55 lbs
Nom. pull force start of stroke	≥ 40 N	≥ 9 lbf
Nom. pull force end of stroke	≤ 120 N	≤ 27 lbf
Maximum effective measurement length	5 m	16.4 ft
Depth rating	75 m	246 ft
Operational temperature range	-10°C - +70 °C	14 °F - +158 °F
Connector	BCR2004M	

## ELECTRICAL – ANALOG DATA OUTPUT

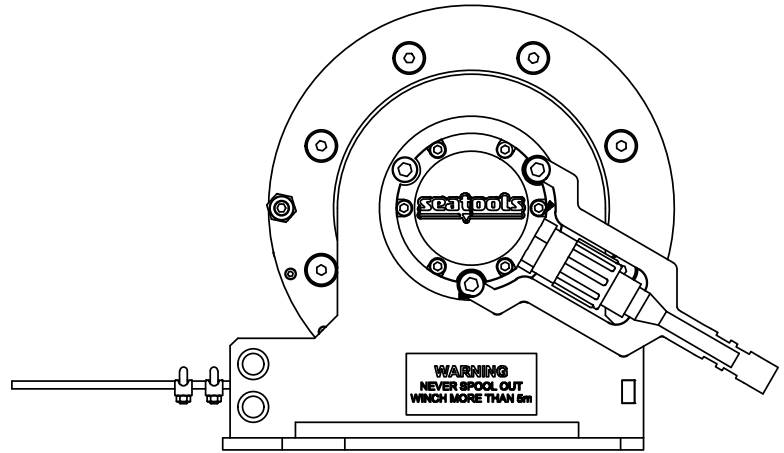
	VOLTAGE OUTPUT	CURRENT OUTPUT
Supply voltage	8 - 32 V DC	8 - 32 V DC
Current consumption	15 mA (without load)	20 mA (without load)
Output signal	0.5 – 9.5 V	4 – 20 mA
Load on output	>5 kΩ at 12 V DC	<500 Ω
Resolution	13 Bit (over entire measurement range)	
Linearity	0.15 %	
Settling time	80 ms	

# DIMENSIONS

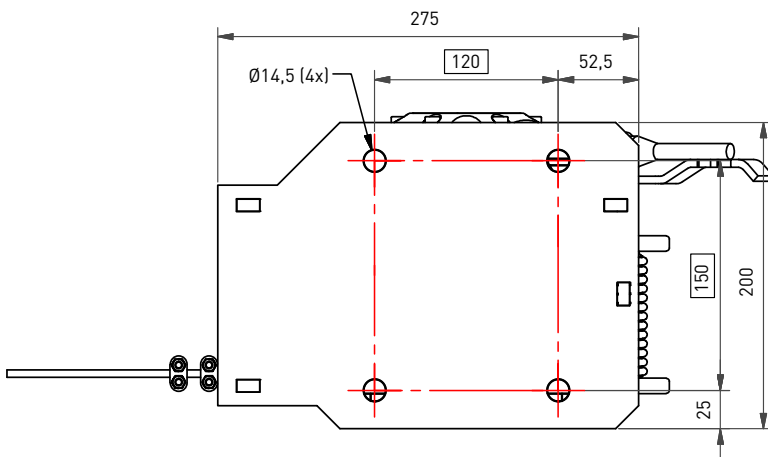
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



3D CAD files in STEP format are available on [www.seatools.com](http://www.seatools.com)

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