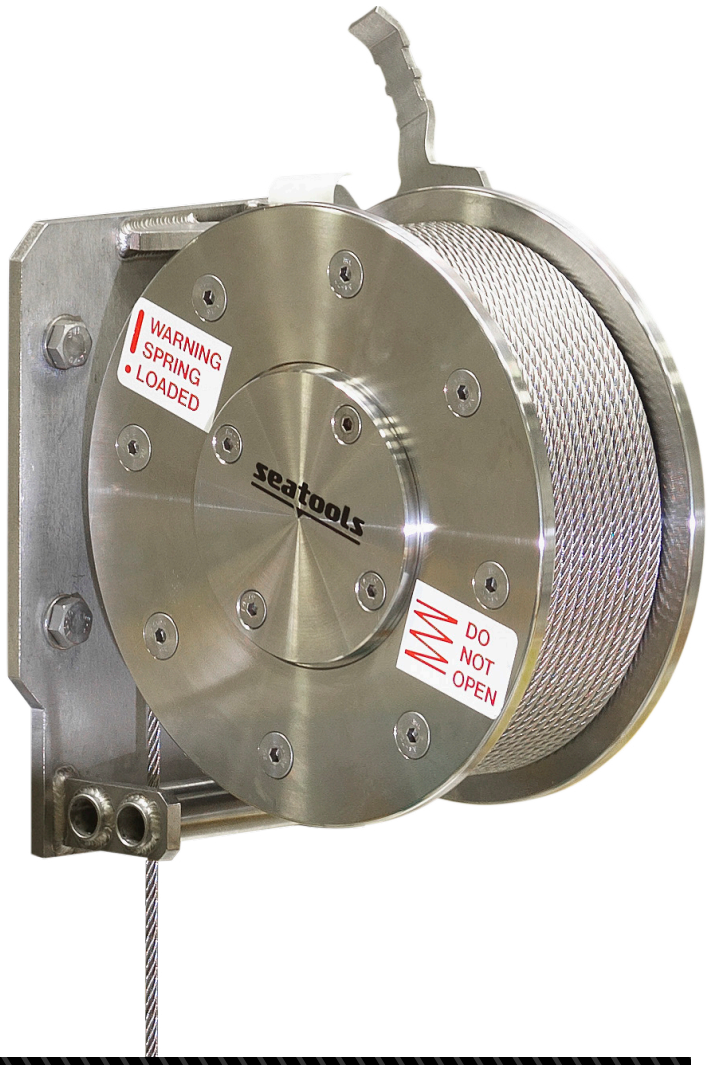
WIRE LENGTH MEASUREMENT
WLM 5 UW
PRODUCT SHEETS

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



UNDERWATER SPECIALISTS

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.

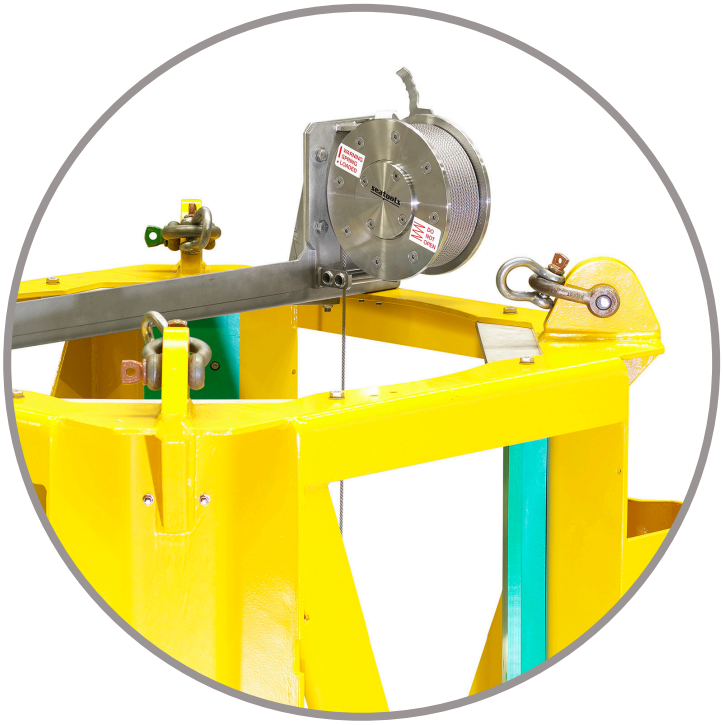
C Connector type

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

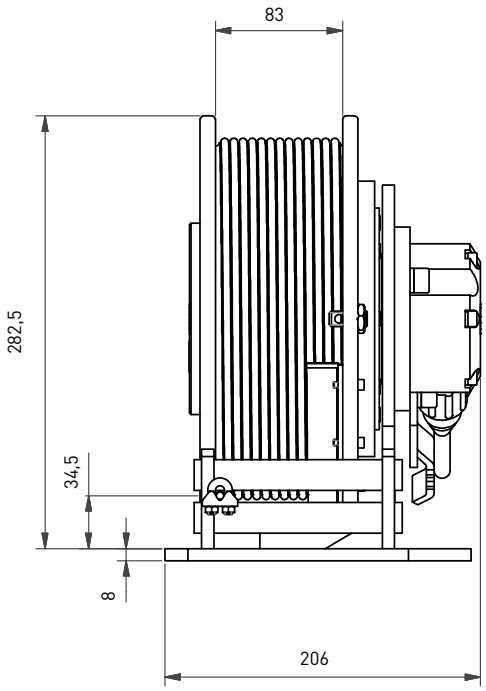
	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing / frame	Stainless steel 316L	
Weight in air	± 25 kg	± 55 lbs
Nom. pull force start of stroke	≥ 40 N	≥ 9 lbf
Nom. pull force end of stroke	≤ 120 N	≤ 27 lbf
Maximum effective measurement length	5 m	16.4 ft
Depth rating	75 m	246 ft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

ELECTRICAL – ANALOG DATA OUTPUT

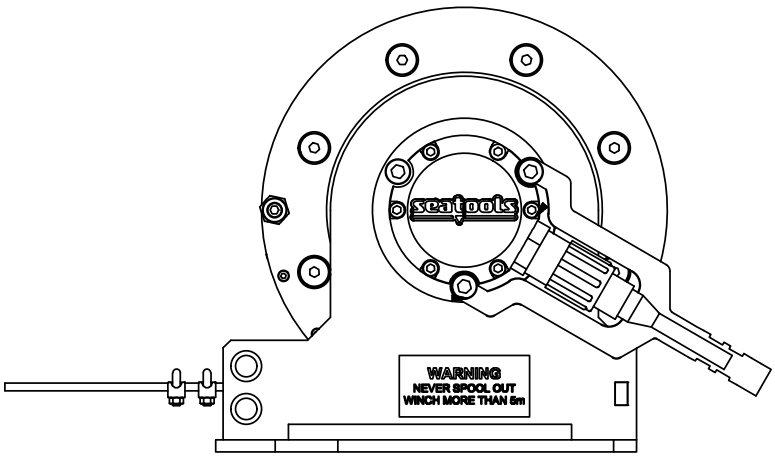
	VOLTAGE OUTPUT	CURRENT OUTPUT
Supply voltage	8 - 32 V DC	8 - 32 V DC
Current consumption	15 mA (without load)	20 mA (without load)
Output signal	0.5 – 9.5 V	4 – 20 mA
Load on output	>5 kΩ at 12 V DC	<500 Ω
Resolution	13 Bit (over entire measurement range)	
Linearity	0.15 %	
Settling time	80 ms	

DIMENSIONS

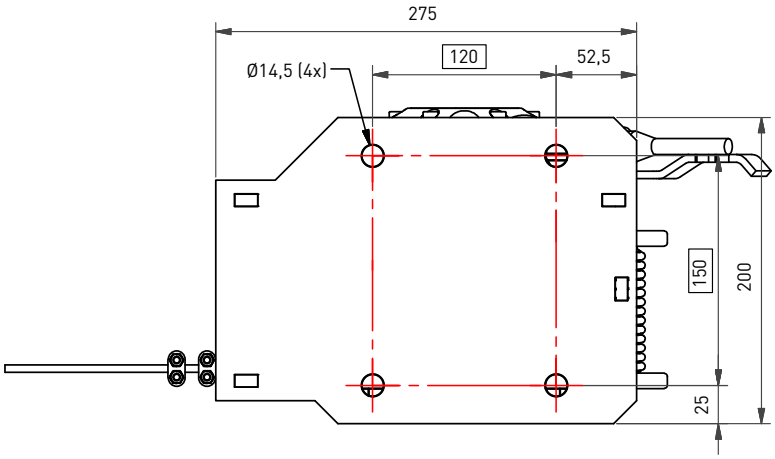
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



3D CAD files in STEP format are available on www.seatools.com

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