PROXIS® 22
SUBSEA PROXIMITY SWITCH
PRODUCT SHEETS

Proxis® 22: Subsea proximity switch
designed to withstand harsh operating
conditions

seatools

SELECTION & OPTION LIST

For every Proxis® 22 the following configuration items must be determined:

- **Switching output.** The Proxis® 22 can be delivered with three different switching outputs: NO, NC, or NO & NC.

The sensor is standard delivered with a stainless steel 316L welding plate (please refer to the dimensions section for more information). Furthermore, the following features are optional:

Ⓐ Connector type

The sensor is standard supplied with a Subconn® Circular Male connector. Alternatively the sensor can be delivered with other connector types or with a stainless steel cable gland. In that case the sensor is delivered including 3 meters cabling

Ⓑ Cable assembly

In case a Subconn® Circular connector is selected, the sensor can be supplied with custom-made cabling in a variety of lengths, allowable loads, and connector types.
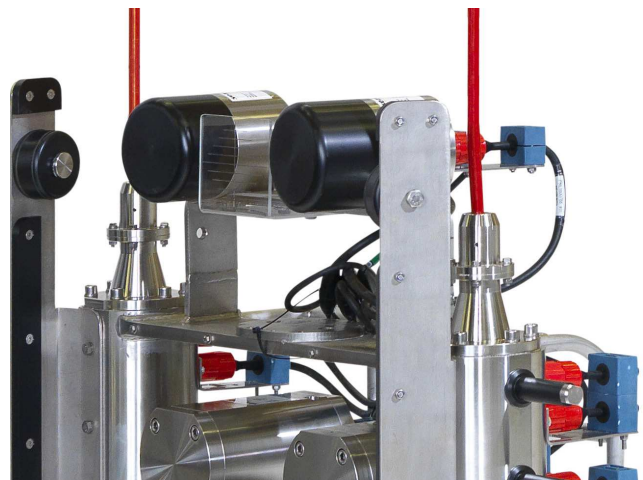
Subconn® Circular connector

TYPICAL APPLICATIONS

The Proxis® 22 is specifically designed for accurate metal object detection in subsea environments. Typical applications include:

- Moonpool hatch position detection
- Subsea actuator end-position detection
- Survey frame position detection
- Lock gates position detection
- Monitoring and control systems

Custom design Proxis® sensor installed on subsea monitoring system

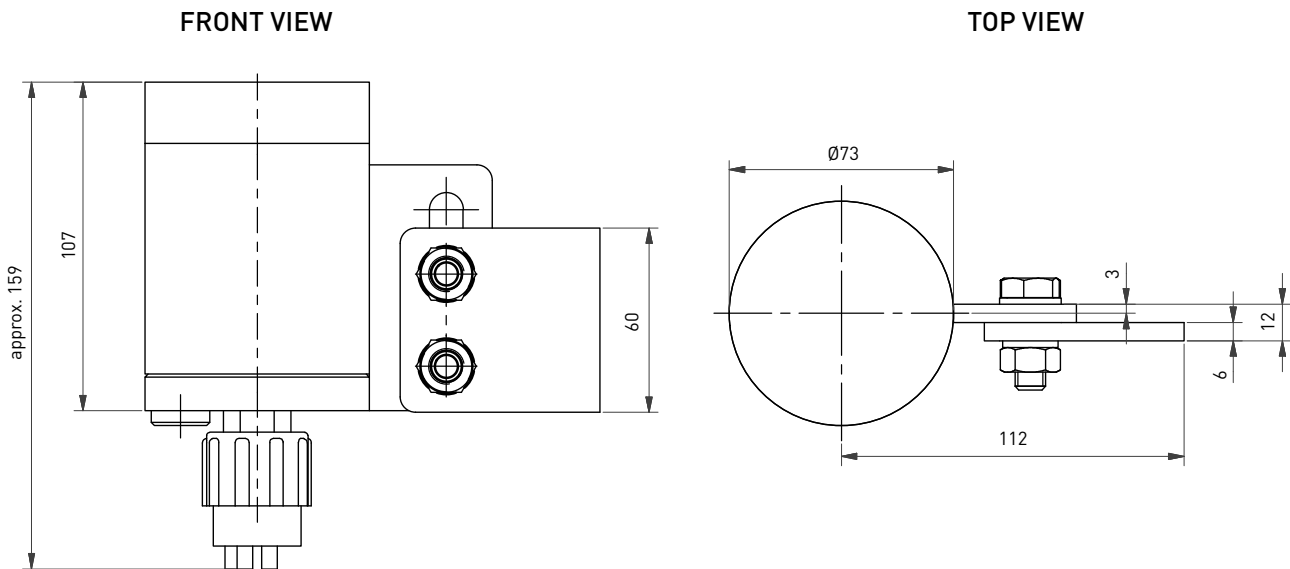# PROXIS® 22 SUBSEA PROXIMITY SWITCH SPECIFICATIONS

GENERAL

	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing	Stainless steel AISI 316L, nylon, and cast resin	
Weight in air	± 1.53 kg	± 3.37 lbs
Maximum working depth (with cable gland)	50 msw	164 ft
Maximum working depth (with connector)	1000 msw	3281 ft
Operational temperature range	-20°C - +50 °C	-4 °F - +122 °F
Type of sensor	Inductive sensor	
Sensing distance (to steel FE 360)	22 mm	0.87 inch
Flush / non-flush mounting	Flush	

ELECTRICAL

Power supply	12 – 48 VDC	
Current consumption	< 10 mA (at no load)	
Maximum switch current	400 mA	
Voltage drop	2 VDC	
Maximum switch frequency	100 Hz	
Output signal	NC (standard setting), NO, NO & NC	

DIMENSIONS

FRONT VIEW

TOP VIEW

Dimensional drawings are based on a Proxis® 22 executed with a Subconn® Circular Male connector. In case the sensor is executed with a different connector, dimensions will deviate.

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

RELATED SERVICES

Client advisory

During the selection process, we consult clients to ensure they opt for the right proximity sensor. In our recommendation we take into consideration measurement range, required accuracy, system setup, data communication, mounting possibilities, vibrations, and other factors that are relevant to your case.

Custom-made versions

Next to our standardized series, Seatools offers custom-made subsea proximity sensors that are tailored to your specifications. Please contact our sales department to request a customized proximity sensor.

Subsea monitoring & control systems

Next to the delivery of stand-alone sensors, we can deliver full-fledged subsea monitoring systems, including all related systems such as mechanics, software, electronics, and controls.

UNDERWATER SPECIALISTS