Proxis® Mini: Highly compact subsea proximity switch designed for water depths up to 5000 msw
SELECTION & OPTION LIST

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

- **Switching output.** The Proxis® Mini can be delivered with two different switching outputs: PNP - Normally open (NO), NPN - Normally open (NO).
- **Sensing range.** The sensing range is dependent on the applied magnet. Sensing ranges of up to 20 mm are possible.

The following features are optional:

A **Connector type**

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

B **Cable assembly**

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

TYPICAL APPLICATIONS

The Proxis® Mini is specifically designed for accurate 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
# PROXIS® MINI SUBSEA PROXIMITY SWITCH SPECIFICATIONS

## GENERAL
- **Main dimensions**: See detailed drawings
- **Material housing**: Hemiax 3
- **Weight in air**: ± 0.5 kg (± 1.1 lbs)
- **Maximum working depth**: 5000 m (16404 ft)
- **Operational temperature range**: -20°C - +70 °C (-4 °F - +158 °F)
- **Sensor type**: Magnetic field sensor
- **Sensing distance**: Depends on the magnet used. Switching distances of up to 20 mm (0.79 inch) are possible
- **Flush / non-flush**: Non-flush

## ELECTRICAL
- **Power supply**: 10 – 30 VDC
- **No-load current**: 30 mA
- **Maximum switch current**: 200 mA
- **Voltage drop**: < 3.1 VDC
- **Maximum switch frequency**: 10000 Hz
- **Output signal**: PNP - NO or NPN - NO
- **Standard connector**: MCBH04MSS
**DIMENSIONS**

**FRONT VIEW**

**SIDE VIEW**

Dimensional drawings are based on a Proxis® Mini executed with a Subconn® Micro Male connector. In case the sensor is executed with a different connector, dimensions might 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.