PROXIS® MINI
SUBSEA PROXIMITY SWITCH
PRODUCT SHEETS

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

seatools

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.

Subconn® Micro connector

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 sensor installed on subsea compensator for empty detection.

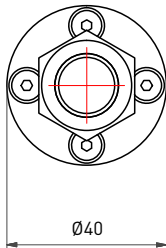# PROXIS® MINI SUBSEA PROXIMITY SWITCH SPECIFICATIONS

GENERAL

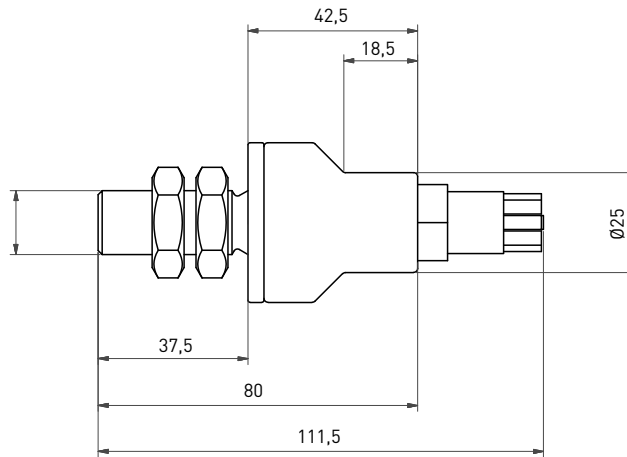|	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing	Hemiax 3	
Weight in air	± 0.5 kg	± 1.1 lbs
Maximum working depth	5000 m	16404 ft
Operational temperature range	-20°C - +70 °C	-4 °F - +158 °F
Sensor type	Magnetic field sensor	
Sensing distance	Depends on the magnet used. Switching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

ELECTRICAL

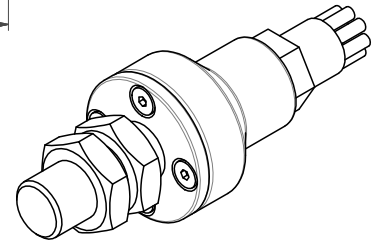|	
Power supply	10 – 30 VDC
No-load current	30 mA
Maximum switch current	200 mA
Voltage drop	< 3.1 VDC
Maximum switch frequency	10000 Hz
Output signal	PNP - NO or NPN - NO
Standard connector	MCBH04MSS

DIMENSIONS

FRONT VIEW

SIDE VIEW

42,5

18,5

Ø25

Ø40

37,5

80

111,5

3D 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 recommen-dation 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