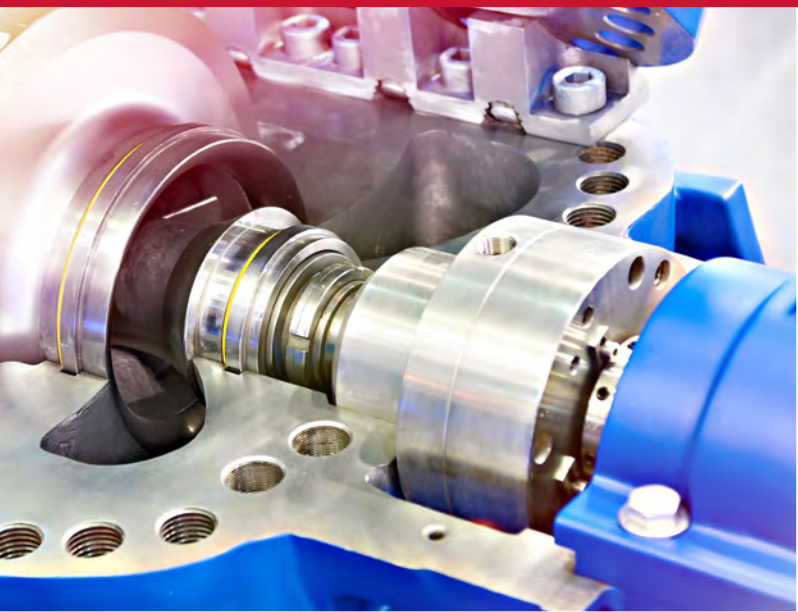


Smooth Sailing

Monitoring and Control in
Marine Applications



see the difference.

Partnership in Focus

Barksdale is your flexible and dynamic partner, integrating reliably into customer processes with innovative products, efficient process management, and comprehensive service. For over 75 years, we have offered a unique product portfolio for pressure, level, flow, and temperature monitoring. The high quality standard and operational reliability provide ideal conditions for demanding measurement tasks, even under extreme conditions such as in the maritime industry.

Full speed ahead

It requires a lot of experience and power to navigate successfully on a global scale. We offer the right advantages:

- ▶ Country-specific approvals
- ▶ Worldwide availability through global presence
- ▶ Application specific, customized solutions
- ▶ Extensive market experience
- ▶ Durable products



With no limits

Our portfolio offers diverse solutions for a multitude of applications:

▶ **Tank gauging**

Level monitoring on fuel tanks, ballast tanks, cargo hold, bilges systems, fresh and wastewater systems

▶ **Propulsion systems**

Pressure and temperature monitoring on engine, gear boxes, steering and cooling systems

▶ **Hydraulic systems**

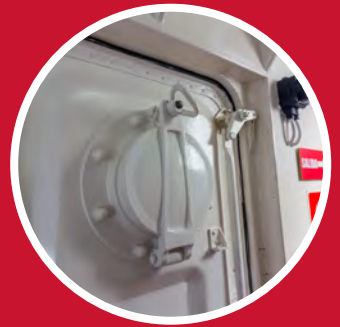
Hydraulic oil pressure and level monitoring on cranes, winches, davits and deck machinery

▶ **Exhaust gas scrubber systems**

Pressure and level monitoring on scrubber tanks, filtration systems

▶ **Auxiliary systems**

Pressure and temperature monitoring on pumps, compressors, firefighting systems









Wherever you are

Engineered for precision and resilience, our solutions help you sail smoothly – even in stormy times.









Marine approvals at a glance



	Bureau Veritas 	DNV 	RINA 	Lloyd's register 	EX 	MED 
Mechanical Pressure Switches	B1T / B2T		●		●	
	D1T / D2T		●		●	
	DPD1T / DPD2T		●		●	
	E1H		●		●	
	KLK / KLM*	●	●		●	●
	Series 8000*	●	●	●	●	●
	Series 9000*	●	●	●	●	
Mechanical Temperature Switches	MT1H		●		●	
	ML1H		●		●	
	T2H		●		●	
	L2H		●		●	
Electronics	BPS3000	●				
	BDS3000	●				
	BiT		●			
	BoT		●			

* EU RO MR Type Approval Certificate

MOVED

		 Bureau Veritas	 DNV	 RINA	 Lloyd's register	 EX	 MED
Level Control	BNA-S21/S22	●	●	●	BNA-S22-S only	●	
	BNA-S31/S32	●	●	●	BNA-S32-S only	●	
	BNA-S35/S36	●	●	●	BNAS36-S only	●	
	BNA-S41/S42	●	●	●		●	
	BNA-S45/S46			●		●	
	BNA-S51/S52			●			
	UNS-S-VA	●	●	●	●	●	
	UNS-VA/SB-VA52	●	●	●		●	●
	UNS-VA/SB1-VA52	●	●	●			●
	UNS-VA/SB4	●	●	●		●	●
	UNS-VA/SB5	●	●	●		●	●
	UNS1000-S	●	●		●	●	
	UNS2000-S	●	●	●	●	●	
	USE3000	●	●	●		USE3200, 6200	
	BLP1		●			●	
Flow	BFS-10-N	●	●			●	
	BFS-30	●	●				
	BFS-40	●	●				
BNA Accessories	XM/Xmi	●	●		●	●	
	XT/Xti				●	●	
	GK03	●	●	●	●	●	

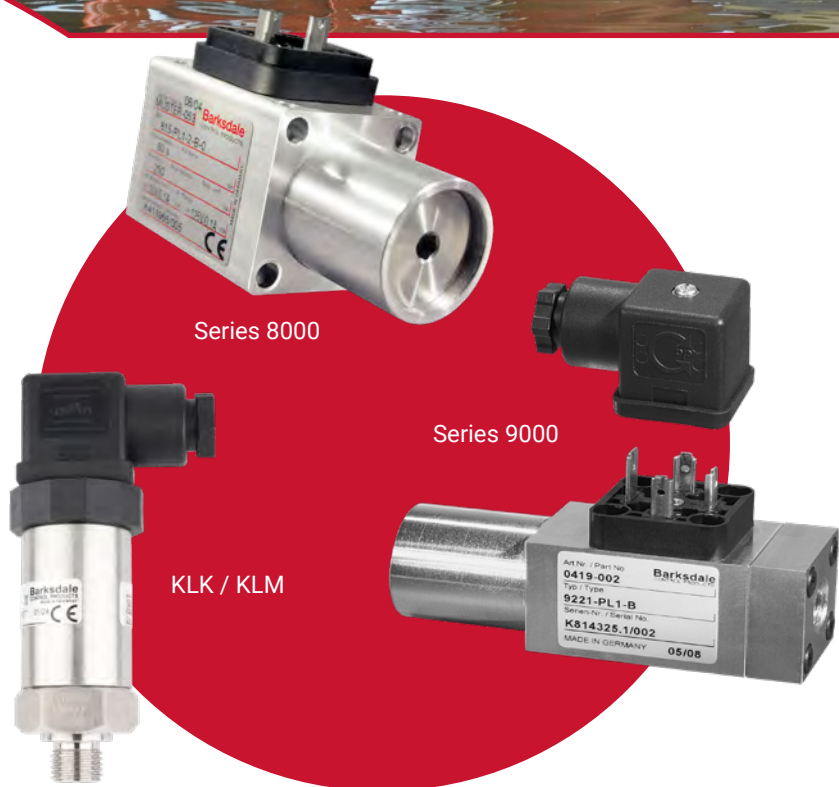
Pressure



Compact-Pressure Switches

Features

- ▶ Adjustable ranges: 1 – 600 bar
- ▶ Adjustable or fixed set points
- ▶ Nema 1, 4, 4X, 7, 9
- ▶ Compact, rugged, economical
- ▶ Approved models available:



Series 8000

Series 9000

KLK / KLM



B1T

High Pressure

Features

- ▶ Adjustable ranges: up to 950 bar
- ▶ High proof pressure
- ▶ Rugged, economical

- ▶ Approved models available:



Pressure / Temperature



Low Pressure

Features

- ▶ Adjustable ranges: up to 34 bar
- ▶ Accurate and reliable switch
- ▶ Adjustable during operation with corresponding reference device
- ▶ Approved models available:



DT Series



DPDT Series



E1H



MT1H/T2H

ML1H/L2H



Mechanical Temperature Switches

Features

- ▶ Adjustable ranges: -45°C ... 316°C
- ▶ Capillary or local sensor
- ▶ 1 or 2 set points
- ▶ Rugged construction
- ▶ Approved models available:



Electronics



Pressure Transducers

Features

- ▶ Measuring ranges: Vacuum and 0 to 1400 bar
- ▶ Operating temperature: -40 °C to 100 °C
- ▶ Rugged 316L and 17-4 stainless steel construction
- ▶ Modular design platform enables a wide range of options

- ▶ Approved models available:



BoT Series



BoT Series



Pressure Switch, electronic

Features

- ▶ Measuring ranges: Vacuum, 0...200 mbar up to 0...600 bar
- ▶ 1 or 2 switch points, adjustable
- ▶ Records and stores peak pressure
- ▶ Digital multifunction display
- ▶ State-of-the-art micro processor control
- ▶ Easy-to-use menu control
- ▶ Easy programmable
- ▶ Self diagnostics
- ▶ Option: Analog output 4 – 20 mA/0 – 10 VDC
- ▶ IP65/67
- ▶ Approved models available:



BPS3000



BDS3000

Differential Pressure Switch

Features

- ▶ Measuring ranges: Differential pressure: 0 – 350 mbar to 0 – 35 bar
- ▶ System of protection: Type 4X (IP65) / Type 6 (IP67)
- ▶ 2 switch points
- ▶ Analog output 4 – 20 mA or 0 – 10 V
- ▶ Superior EMI protection
- ▶ Rotatable 320° display & electronical connection
- ▶ Approved models available:



Level Control



Single Level Switches

Features

- ▶ One switchpoint (SPST or SPDT reed contacts)
- ▶ Vertical or horizontal mounting
- ▶ Protection class IP54 / IP68
- ▶ Approved models available:



UNS-VA/SB
Bilge Guard

Tank Level Gauging

Features

- ▶ Continuous level measurement
- ▶ Accuracy: 4 – 16 mm version (grid)
- ▶ Mounting: vertical or custom made
- ▶ Integrated transmitter
- ▶ Optional: Interface level measurement
- ▶ Output: 4 – 20 mA, 0 – 10 V or ohmic
- ▶ Max length from mating surface:
max. 6000 mm
- ▶ Approved models available:



USE3000



UNS1000-S



UNS2000-S

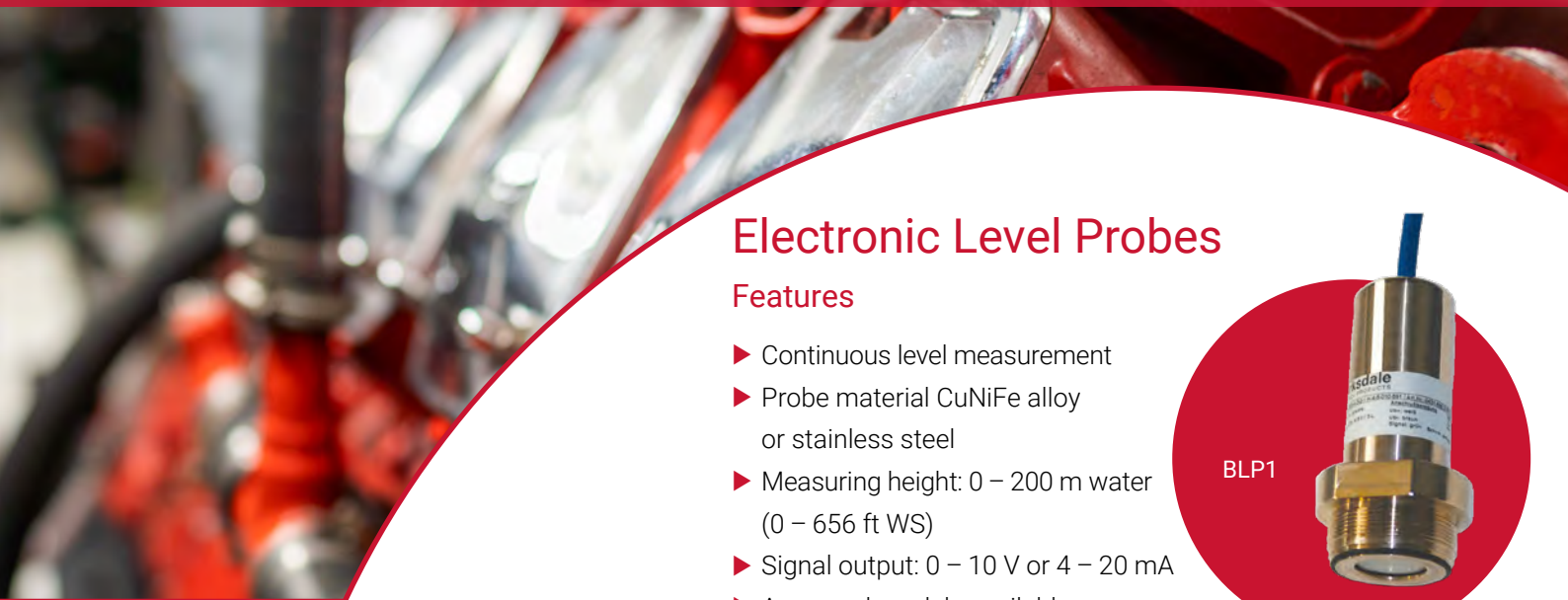
Multi Level Switches

Features

- ▶ Up to 6 levels SPST or SPDT reed contacts
- ▶ Metal and non-metal versions
- ▶ Protection class IP54 / IP68
- ▶ Max. length from mating surface: 3000 mm
- ▶ Optional with temperature sensor (Pt100) or temperature switch
- ▶ Approved models available:



Level/Flow



Electronic Level Probes

Features

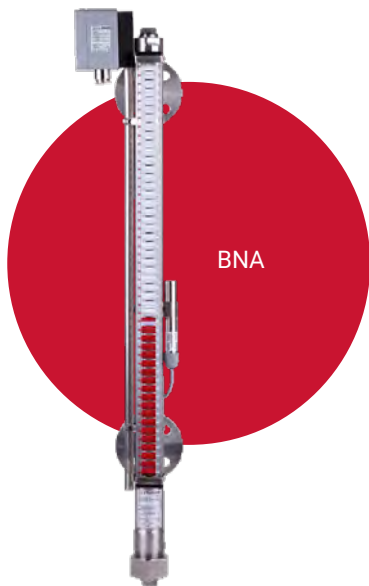
- ▶ Continuous level measurement
- ▶ Probe material CuNiFe alloy or stainless steel
- ▶ Measuring height: 0 – 200 m water (0 – 656 ft WS)
- ▶ Signal output: 0 – 10 V or 4 – 20 mA
- ▶ Approved models available:



Bypass Level Indicators

Features

- ▶ Continuous level indication, purely mechanical, no power needed
 - ▶ Temperature up to 320 °C
 - ▶ Operating pressure up to 250 bar
 - ▶ Stainless steel versions
 - ▶ Mounting tankside or from top to down
 - ▶ Max. measuring length: 5700 mm
- (one piece)
- ▶ Optional:
 - Transmitter 4 – 20 mA
 - Interface
 - Bi-stable reed switch usable as limit switch
 - ▶ Approved models available:



Flow Switches

Features

- ▶ Pipe size: G1/4" ... G1 1/2"
- ▶ Stainless steel or nickel plated brass
- ▶ Variable area flow meter
- ▶ Calibrated scale with viscosity compensation up to 600 cSt available
- ▶ Optional visual indication
- ▶ SPST or SPDT output
- ▶ Approved models available:



Design with Us



Leverage our Engineering Expertise to Make Exactly What You Need

Modify Standard Products for Your Project

Barksdale offers more than 50 product families and millions of configured options to measure, monitor and control processes essential to the industrial, power and transportation markets. We can make basic modifications to these standard products and options to ensure they are exactly matched to the project requirements.

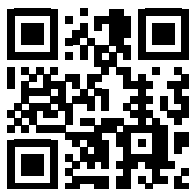
Market-focused. Technology-driven. Customer-intimate.

These elements at the heart of the company philosophy have made Barksdale a synonym for advanced measurement and control solutions since 1949.

We continuously adapt our innovations to market requirements and offer customized solutions thanks to our global presence. With facilities in North America, Europe and Asia, we are a leading provider that combines close customer relationships with the highest level of technological expertise.

Barksdale is part of the global Crane Co. Group. By utilizing synergy effects, growth and customer orientation are always the focus of all business units.

See the difference.



Visit Barksdale.de to view our complete product portfolio.

Subject to technical change. Art-No.: 923-1416 Index:E

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