




**INDUCTIVE
POSITION SENSORS**

MARITIME

FOR SHIPS, PORTS AND OFFSHORE



- ✓ Extremely rugged sensors, fit for Industry 4.0
- ✓ Resistant to corrosion and salt water
- ✓ Impervious, enclosure rating IP68 or IP69K
- ✓ GL approved, class DNV-GL-CG-0339
- ✓ Pressure-resistance available up to 500 bar (7251 psi), peak 800 bar (11,603 psi)
- ✓  IO-Link interface allows IoT connectivity for remote calibration and predictive maintenance
- ✓ Sensor customization options

**A
Swiss
Company**

CONTRINEX
SENSORS SAFETY RFID



INDUCTIVE POSITION SENSORS

M12 / M18 / M30

- ✓ Factor 1 on steel and aluminum
- ✓ Totally impervious IP68/IP69K, seawater resistant
- ✓ Stainless steel V4A (1.4404/AISI 316L)
- ✓ Special EMC protection
- ✓ Temperature range -25 ... +85°C (-13 ... +185°F)

**LONGEST
OPERATING
DISTANCES**



P12G

- ✓ Factor 1 on steel and aluminum
- ✓ Totally impervious IP68/IP69K, extremely robust
- ✓ Stainless steel V4A (1.4404/AISI 316L)
- ✓ Operating up to 500 bar (7255 psi), peak 800 bar (11,603 psi)
- ✓ Temperature range -25 ... +85°C (-13 ... +185°F)

**PEAK UP TO
800 BAR
(11,603 PSI)**



C23

**FLAT
CUBIC
SHAPE**



- ✓ Factor 1 on steel and aluminum
- ✓ Small, flat housing: 20 x 32 x 8 mm
- ✓ Totally impervious IP68/IP69K, seawater resistant
- ✓ Stainless steel V4A (1.4404/AISI 316L)
- ✓ Temperature range -25 ... +85°C (-13 ... +185°F)

M10E

**OPERATING
PRESSURE UP
TO 200 BAR
(2900 PSI)**



- ✓ Ceramic front face
- ✓ Seawater resistant, IP68
- ✓ Stainless steel V2A
- ✓ IO-Link interface
- ✓ Temperature range -25 ... +70°C (-13 ... +158°F)

	PART REFERENCE	SIZE	SN	MOUNTING	CONNECTION	OUTPUT
M12 / M18 / M30	DW-MS-703-M12	M12	6 mm	Embeddable	M12 4-pin	PNP NO
	DW-MD-703-M12	M12	6 mm	Embeddable	PUR cable	PNP NO
	DW-MS-703-M18-002	M18	10 mm	Embeddable	M12 4-pin	PNP NO
	DW-MD-703-M18	M18	10 mm	Embeddable	PUR cable	PNP NO
	DW-MS-703-M30-002	M30	20 mm	Embeddable	M12 4-pin	PNP NO
	DW-MD-703-M30	M30	20 mm	Embeddable	PUR cable	PNP NO
P12G	DW-MS-703-P12G	M12 (P12)	1.5 mm	Embeddable	M12 4-pin	PNP NO
	DW-MD-703-P12G	M12 (P12)	1.5 mm	Embeddable	PUR cable	PNP NO
C23	DW-MD-703-C23	C23	7 mm	Embeddable	PVC cable	PNP NO
	DW-MV-703-C23-276	C23	7 mm	Embeddable	PVC cable + M8 3-pin	PNP NO
M10E	DW-AD-603-M10E-620	M10	0.6 mm	Embeddable	PUR cable	PNP NO
	DW-AD-603-M10E-637	M10	0.6 mm	Embeddable	PUR cable	PNP NO

MARITIME

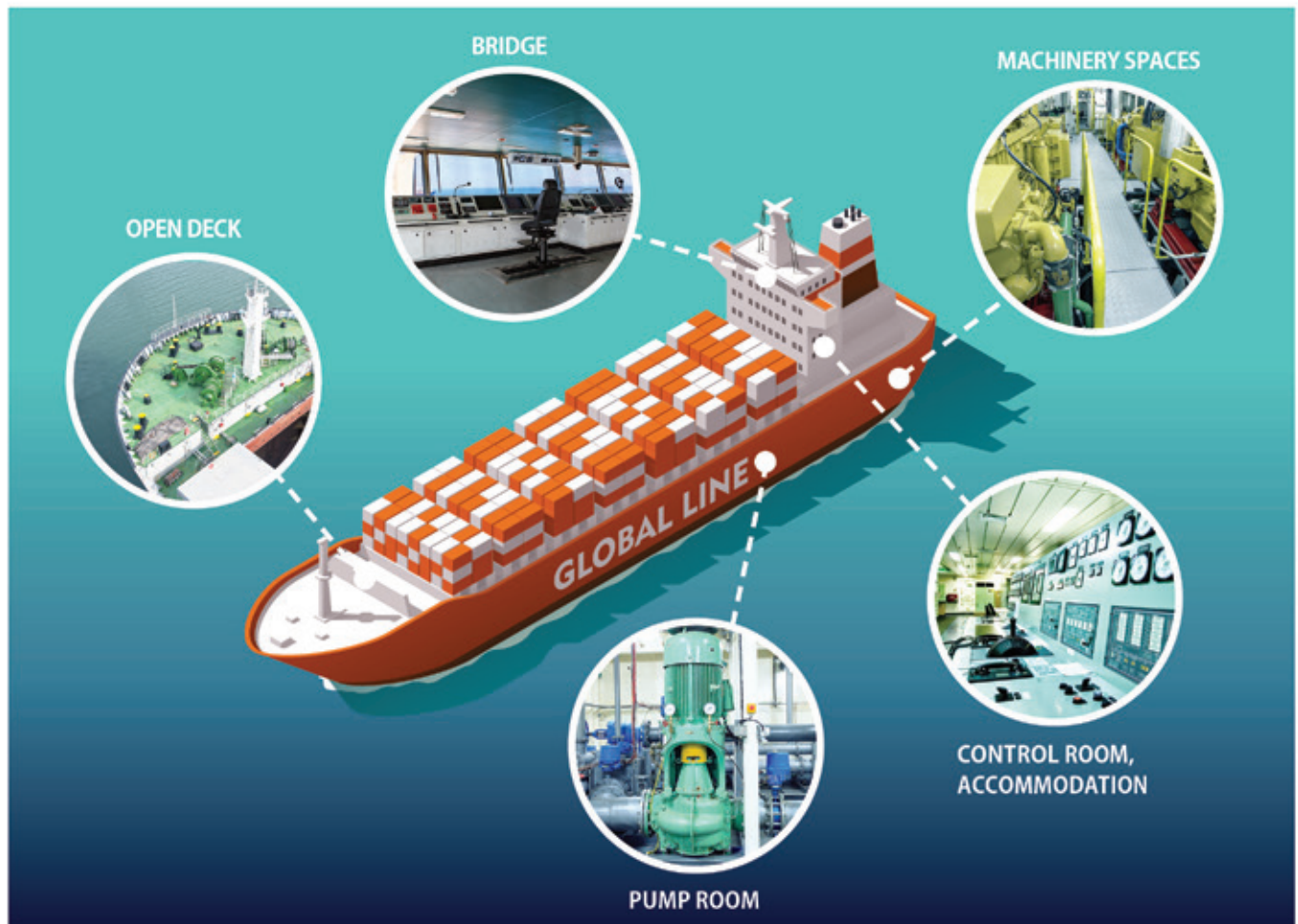
ABOUT DNV-GL CERTIFICATION

DNV-GL was created in 2013 with the merger of Det Norske Veritas (Norway) and Germanischer Lloyd (Germany). It is an internationally accredited certification body that establishes and maintains technical standards for the construction and operation of ships and other offshore mobile structures in international waters. DNV-GL is authorized by 130 maritime administrations to perform certification or verification on their behalf.

The classification standards of DNV-GL comprise safety, reliability and environmental requirements. Contrinex Maritime inductive sensors meet these requirements regarding temperature, humidity, vibration, enclosure rating and electromagnetic compatibility. They have therefore been approved for use in the locations indicated below.



GL-APPROVED LOCATION CLASSES



PARAMETER	MACHINERY SPACES	CONTROL ROOM, ACCOM.	BRIDGE	PUMP ROOM, HOLDS, UNHEATED	OPEN DECK
TEMPERATURE	✓	✓	✓	✓	✓
HUMIDITY	✓	✓	✓	✓	✓
VIBRATION	✓	✓	✓	✓	✓
EMC	✓	✓	M10E only	✓	M10E only
ENCLOSURE	✓	✓	✓	✓	✓

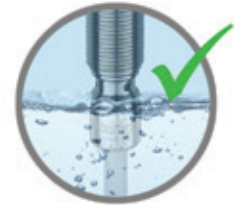
DNV-GL MARITIME APPROVED

LONG SERVICE LIFE AND IOT CONNECTIVITY

The Maritime range of inductive sensors, certified by DNV-GL, offers unrivalled performance features. Service life is the longest of any inductive sensor on the market, even in harsh environments, while EMC protection meets maritime requirements, particularly with regard to power supply variations and low frequency immunity.

Housings are impervious and rated IP68/IP69K. Sizes M12 to M30 and C23 offer outstanding resistance to salt water and corrosion, thanks to one-piece, stainless-steel construction in grade V4A/AISI 316L.

The maximum operating pressure is 80 bar (1160 psi) or, for P12G high-pressure types, 500 bar (7251 psi), peak 800 bar (11,603 psi). In the PNP version, sensors include an IO-Link interface for point-to-point communication.



100%
SALTWATER-
PROOF

IO-LINK

CLOUD ANALYTICS

MAINTENANCE PLANNING

IO-Link SENSORS

IO-Link
SMART COMMUNICATION WITH CONTRINEX SENSORS

- Continuous monitoring of process data
- Continuous diagnosis of sensor status
- Advanced parameter settings
- Easy check of sensor ID, to ensure the right sensor is at the right place



DATA MONITORING



DIAGNOSIS



NO NC SELECTION



TEMPERATURE



DETECTION COUNTER



DELAY



STRETCH

RELATED PRODUCTS

Find out more about special products suitable for maritime-related industry sectors on our website www.contrinex.com



Special purpose machines



Green energy

	PART REFERENCE	SIZE	SN	MOUNTING	CONNECTION	OUTPUT
INDUCTIVE	DW-AS-62A-C44	40 x 40 (C44)	20 mm	Embeddable	M12 4-pin	PNP NO + NC
	DW-AS-63A-C44	40 x 40 (C44)	40 mm	Non-embeddable	M12 4-pin	PNP NO + NC
	DW-AS-703-M12-671	M12	6 mm	Embeddable	M12 4-pin	PNP NO
	DW-AS-703-M30-773	M30	20 mm	Embeddable	M12 4-pin	PNP NO
RFID	RLS-1302-030*	M30	Max. 28 mm	Non-embeddable	M12 4-pin	RS 485
	RTL-0102-001**	∅ 10 mm	Max. 11 mm	Embeddable	-	-

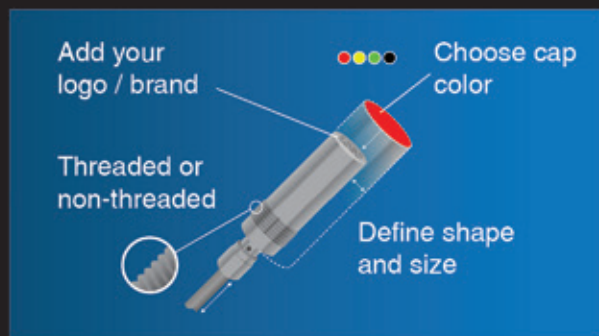
* Read/write module ** Tag

PUR CABLE SELECTION

CONNECTING CABLES	PART REFERENCE	SIZE	PINS	CONFIG.	MATERIAL	LENGTH
	S08-3FUW-020	M8	3	Right angle	PUR	2 m
	S08-3FUG-020	M8	3	Straight	PUR	2 m
	S12-3FUW-020	M12	3	Right angle	PUR	2 m
	S12-3FUG-020	M12	3	Straight	PUR	2 m

SENSOR CUSTOMIZATION OPTIONS

- ✓ Housing shape and size
- ✓ Cable length
- ✓ Embeddable / non-embeddable
- ✓ Threaded / non-threaded
- ✓ Selected technical characteristics





WHY CHOOSE US

- ✓ Leader for sensors and systems in the most challenging operating conditions
- ✓ Partner of the Maritime industry for over 20 years
- ✓ Building industrial experience since 1972
- ✓ Widest IO-Link portfolio – ready for Industry 4.0 for over 5 years
- ✓ Most reliable sensors on the market with best temperature compensation and high quality materials
- ✓ Technical mastery of key elements - own ASIC development
- ✓ Global sales network with solution-oriented application support
- ✓ Impeccable Swiss quality for our products and systems
- ✓ Responsive, open company culture

WHAT WE OFFER

- ✓ 5 production sites for fast, worldwide availability; 3 sites approved for DNV-GL certified products
- ✓ 3 logistic hubs for fast delivery even for special products
- ✓ International Customer Services
- ✓ Long-standing experience in product customization and brand labelling
- ✓ Vigorous lab testing, pre-shipment inspections and compliance with market standards

KEY DATES

- 1999** Inductive sensors with world's most robust full-metal housing, thanks to patented Condet® technology
- 2005** Hermetically sealed inductive sensors with full-metal housing in 100 % saltwater-proof stainless steel (V4A/316L)
- 2008** Contrinex ASIC with IO-Link interface

Terms of delivery and right to change design reserved.

HEADQUARTERS

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