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**	Ø 10 mm	Max. 11 mm	Embeddable	•	•

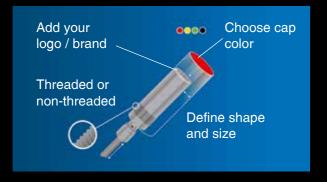
^{*} Read/write module ** Tag

PUR CABLE SELECTION

U Z	PART REFERENCE	SIZE	PINS	CONFIG.	MATERIAL	LENGTH
	●── \$08-3FUW-020	M8	3	Right angle	PUR	2 m
	●── \$08-3FUG-020	M8	3	Straight	PUR	2 m
CONN	●─── \$12-3FUW-020	M12	3	Right angle	PUR	2 m
Ŭ	●─── \$12-3FUG-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
- ✓ Global sales network with solution-oriented application support
- ✓ Impeccable Swiss quality for our products and
- ✓ 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

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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www.contrinex.com







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)
- ✓ **② IO**-Link interface allows IoT connectivity for remote calibration and predictive maintenance
- √ Sensor customization options







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



GL-APPROVED LOCATION CLASSES



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

INDUCTIVE POSITION SENSORS

M12/M18/M30

- √ Factor 1 on steel and aluminum
- √ Totally impervious IP68/IP69K, seawater
- ✓ Stainless steel V4A (1.4404/AISI 316L)
- ✓ Special EMC protection

LONGEST

OPERATING

DISTANCES

FLAT

CUBIC

SHAPE

✓ Temperature range -25 ... +85°C (-13 ... +185°F)

C23

√ Factor 1 on steel and aluminum

✓ Small, flat housing: 20 x 32 x 8 mm

✓ Stainless steel V4A (1.4404/AISI 316L)

✓ Totally impervious IP68/IP69K, seawater resistant

✓ Temperature range -25 ... +85°C (-13 ... +185°F)

型質





PEAK UP TO 800 BAR (11,603 PSI)

M10E

P12G

✓ Totally impervious IP68/IP69K, extremely robust

✓ Operating up to 500 bar (7255 psi), peak 800 bar

✓ Temperature range -25 ... +85°C (-13 ... +185°F)

√ Factor 1 on steel and aluminum

(11,603 psi)

✓ Stainless steel V4A (1.4404/AISI 316L)



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 MOUNTING CONNECTION **OUTPUT** SIZE **Embeddable** M12 4-pin PNP NO M12 PNP NO **PUR** cable Embeddable PNP NO M12 4-pin DW-MD-703-M18 **Embeddable PUR** cable PNP NO Embeddable M12 4-pin PNP NO DW-MD-703-M30 PNP NO **Emheddable PUR** cable DW-MS-703-P12G M12 4-pin PNP NO M12 (P12) DW-MD-703-P12G PNP NO **PUR** cable PNP NO **PVC** cable DW-MV-703-C23-276 PVC cable + M8 3-pin PNP NO DW-AD-603-M10E-620 PNP NO **PUR** cable PNP NO **PUR** cable

DNV-GL

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.



SALTWATER-PROOF

IO-LINK

