

TYPE APPROVAL CERTIFICATE No. ELE070720XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	Capacitive level switch with capacitive probe
Туре	
	CLS 50; CLS 55
Applicant	BEDIA MOTORENTECHNIK GMBH & CO. KG
	Gewerbepark An Der A6 - Im Erlet 1
	D-90518 Altdorf bei Nurnberg
	GERMANY
Manufacturer	BEDIA MOTORENTECHNIK GMBH & CO. KG
Place of manufacture	Gewerbepark An Der A6 - Im Erlet 1
	D-90518 Altdorf bei Nurnberg
	GERMANY
Reference standards	Rules for the Classification of Ships- Part C - Machinery,
	Systems and fire protection - Ch.3 ; Sect. 6, Tab.1

Issued in HAMBURG on April 17, 2020. This Certificate is valid until April 16, 2025

RINA Services S.p.A. Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE No. ELE070720XG Enclosure - Page 1 of 1 CLS 50 CLS 55

CLS 50 / 55 sensor operate according to the capacitive principle. It detects the change in capacitance that develops when an electrode surrounded by air is immersed in a liquid medium. The change in capacitance is than processed by electronics

Features:

Two different kind of mediums are detected:

1) Electrically conductive liquid mediums with a dielectric constant value of: $\varepsilon_r = 35$ to 85

2) Electrically non-conductive liquid mediums with a dielectric constant value of: $\varepsilon_r = 1.8$ to 6

Power supply

Version HV for 12V / 24V (CLS 50) Version LV for 5V / 12V (CLS 55)

Signal Output

Switching signal output to positive (HSS) Switching signal output to negative (LSS)

Voltage output : 30% of the power supply voltage (not switched) 70% of the power supply voltage (switched) Outputs are short circuit protected

Technical description CLS 50/55 Capacitive Level Switch (17/08/2009)

Test report: ECL- EMC test report n. 08-192 (22/10/2008) LGA QualiTest GmbH n. E 4.964- I (25/08/2009)

This Certificate supersede Type Approval Certificate ELE096314XG.

HAMBURG April 17, 2020

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