

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	86 392 - 09 HH
Company	BEDIA Motorentchnik GmbH & Co. KG Gewerbepark an der A6, Im Erlet 1 90518 Altdorf, GERMANY
Product Description	Level Sensor
Type	CLS 50/55 (Capacitive Level Switch)
Environmental Category	D, H, EMC1
Technical Data / Range of Application	Supply Voltage CLS Sensors are available for two different supply voltages ranges: CLS 50... : version HV for 12V or 24V DC (9V DC 36V DC) CLS 55... : version LV for 5V or 12V DC (4.5V DC ... 18V DC) Media The level probes are designed for two different types of medium: Water sensor: for electrical conductive fluids Oil sensor: for non electrical conductive fluids Signal Outputs Available signal outputs: HSS: High Side Switch, 1A at version HV LSS: Low Side Switch, 1A at version HV, 0.5A at version LV AOU: Analog output voltage, available as HV or LV version AOP: Analog output proportional, available as LV version
Test Standard	Guidelines for the Performance of Type Approvals, Chapter 2- Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2003
Documents	Test reports: LGA no. E 4.964-I (25.08.09), ECL-EMC no. 08-192 (15.12.09), Bedia Pressure test (21.04.09), Bedia Performance test (29.09.09); Description of CLS50/55; Data sheets, drawings and part lists according to submitted files
Remarks	This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.

Valid until **2019-12-21**

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Hamburg, 2014-12-30

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Further Technical Data / Range of Application

Current consumption: <8mA

Pressure resistance: 25bar

Degree of protection: IP 65, IP69K (depending on terminals)

Material Housing: Stainless steel

Electrical Connectors: Bayonet, Thread, DIN43650, Cable, EMC Cable Gland

CLS H: Hardware version 2.x, Firmware version: CLS40V0_x_xx.HEX

CLS L: Hardware version 3.x, Firmware version: CLSV1_x_x.HEX

Interface board CLS IF: Hardware version 4.x

CLS A: Hardware version 2.x, Firmware version CLS40V0_x_xx.HEX

**Environmental Category "H": Test Dry Heat with +125°C / 16h
Test Cold with -40°C / 16h
Test Salt mist**

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