

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Bedia Motortechnik GmbH & Co. KG
Address	Gewerbepark an der A6, Im Erlet 1, Altdorf, 90518, Germany
Type	Switches - Level
Description	Capacitive Level Switches refer to the Appendix for details
Trade Name	CLS50/55
Application	Marine, offshore and industrial applications for use in environmental categories ENV 1, ENV 2, ENV 3 and ENV 4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.
Specified Standard	Manufacturer's specification
Additional Tests	Low temperature test (-40°C / 16hrs) Dry heat test (125°C / 16hrs) Enclosure test IP 65 IPX8 (1.,45m / 90min) IPX9K according DIN 40050, part 9 (depending on connector/cable)

71 Fenchurch Street, London, EC3M 4BS,
United Kingdom

Thorsten Wolff

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ETS 39819-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

CLS50/55 (1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)

(1) Media:	0: Oil 1: Water 2: Oil Special with Oil Shield 2
(2) Process Connection:	xx - Depending on type
(3) Housing:	2: Stainless Steel
(4) Electrical Connection:	xxxx - Depending on type
(5) Type of Cable:	xx - Depending on type
(6) Length of Cable:	00000 - without cable xxxxx - Length in mm
(7) Sensor Output:	1: HSS: High Side Switch - 1A (HV type only) 2: LSS: Low Side Switch - 1A (HV type only) 3: LSS: Low Side Switch - 0.5A (LV type only) 4: AOU - Analogue Output Voltage 5: AOP - Analogue Output Proportional
(8) Operation Mode:	1: Minimum OC (Operation Current) 2: Minimum QC (Rest Current) 3: Maximum OC (Operation Current) 4: Maximum QC (Rest Current)
(9) Switch Point:	1xxx - mm From Seal Edge (long feeler) 2xxx - mm From Seal Edge (short feeler) 1028 - Default value
(10) Response Delay:	xxxx in Seconds
(11) Self Test Function:	xxxx in Seconds
(12) Analogue Values:	xxx/xxx