



Marine & Offshore

Certificate number: 19659/C0 BV

File number: AP 3828

Product code: 3741H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.
ISTANBUL - TURKEY

for the type of product

LEVEL TRANSMITTERS

Magnetic Level Switches

F1 Model (Side Mounting) and LS Model (Top Mounting)

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

EC Code: 31S

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 27 Apr 2023

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 27 Apr 2018,

Gurcan Yilmaz



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=szynpdprzm>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Magnetic Level Switches intended to be used for point level detection of liquids.

Main Characteristics:

	F1 Model	LS Model
Type:	Side Mounting	Top Mounting
Mounting Flange:	Square Flange - PN10/16	DN50, DN100, G1/2", G3/4", G1", G2" - PN10
Electrical Connection:	Cable Gland - M16x1.5	Cable Gland - M16x1.5
Switching Capacity:	250 VAC - 15A Max.	350/400 VAC Max. - 1A Max. - 60W Max.
Materials:	AISI 316 - Float & Square Flange Etial 150 - Switch Box	AISI 316 - Float AISI 304 - Level Tube (AISI 316 Optional) St 37.2 - Flange (AISI 304 or 316 Optional) Etial 150 - Switch Box

2. DOCUMENTS AND DRAWINGS:

KAYSE:

Data Sheets of F1 type and LS type Level Switches.

Drawings: F1 Level Switch No. 505.901.000.001 Edition 1 ; LS 20 DN50 Level Switch No. 512.941.000.300 Edition 1.

3. TEST REPORTS:

Curtis-Straus LLC (Littleton - Massachusetts - USA):

Environmental Tests on F1 Model, Report No: NH0225-2 dated 05/29/2007

Environmental Tests on LS Model, Report No: NH0225-1 dated 05/29/2007

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31S.**

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **F1 & LS** Level Switches are to be supplied by **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** has declared to Bureau Veritas the following production site:

**KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.
TEPEOREN ISTANBUL
TUZLA ORGANIZE SAN. BOLGESI
7. CADDE NO:4 TUZLA
ISTANBUL
TURKEY**

6. MARKING OF PRODUCT:

- Trade name,
- Date of manufacture and serial number,
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

7.1 - It is **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate n° 19659/B0 BV issued on 20/03/2013 by the Society.

*** END OF CERTIFICATE ***



[1]

EC-Type Examination Certificate

[2] **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 94/9/EC

[3] EC – Type Examination Certificate Number : **IEP 12 ATEX 114**

[4] Equipment : **LS Ex X Type Magnetic Level Control Gauge**

[5] Manufacturer : **KAYSE Endustriyel Mamuller San. ve Tic. A.Ş.**

[6] Address : **Orhanlı Orta Mah. Aktepe Sanayi Sitesi No:12/B Tuzla / Istanbul - TURKEY**

[7] This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] The IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti. , notified body number 2284 in accordance with of the Council Directive 94/9/EC of 23 March 1994 certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential Report N : IEP - RP.Ex - 10. 442 date 22.08.2012

[9] Compliance with Essential Health and safety requirements has been assured by compliance with ;
EN 13463-1/2009 , EN 13463-5/2003 , EN 60079-1/2007

[10] If the sign “ X “ is placed after the certificate number , it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type Examination Certificate relates only to the design examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following :

 II 2G Ex d IIA T6 Gb  II ½ G c IIA

Responsible person :

Nurettin Terzioglu
Head of certification body



Date of issue : **23.August.2012**

