



Polski Rejestr Statków

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product type

LEVEL SWITCHES

ERH-01-06(-K)	ERH-01-07(-K)	ERH-01-16(-K)	ERH-01-16.1(-K)
ERH-02-06(-K)	ERH-02-07(-K)	ERH-02-16(-K)	ERH-02-16.1(-K)
ERH-03-06(-K)	ERH-03-07(-K)	ERH-03-16(-K)	ERH-03-16.1(-K)
ERH-04-06(-K)	ERH-04-07(-K)	ERH-04-16(-K)	ERH-04-16.1(-K)

issued to

APLISENS S.A.
Ul. Morelowa 7
03-192 Warszawa
Poland

is approved as complying with the requirements of the

PRS Rules and is suitable for use on board of ships classified by PRS or in appliances with PRS certificates.

Certificate No. **TE/2171/883400/18**

Expiry date **2023-03-22**

Issued at

Gdańsk, 2018-03-23



Signature

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Continued overleaf

Technical data

Product description:

Two-term level switches for indication or control of liquid level. Switches are provided with float mechanism indicating presence of liquids. They can be installed in open or closed tanks (including tanks where explosion atmosphere exist – see Ex type notation below).

Type designation details: **ERH – xx – yy -K**

ERH – main type;

xx: 01/02/03/04 different switching hysteresis, maximum liquid temperature and application (liquid type);

yy: 06/07/16/16.1 different enclosure protection degree (06 and 16 – IP66, 07 and 16.1 – IP68), 16 and 16.1 explosion-proof design;

K: – stainless steel grade 1.4401 (316) design.

Ambient temperature range (permissible): from -25 up to +70 °C.

Rated switching voltage: 400 V 50/60 Hz or 220 V d.c. or 230 V d.c. or 24 V d.c.

Enclosure protection degree: IP66 (IP68 only for ERH-xx-07 ERH-xx-16.1).

Explosion-proof designation (only for ERH-xx-16 and -16.1): Ex II 1/2G c Ex de IIB T4 Ga/Gb.

Operational nominal pressure: up to 4 MPa.

Mounting type: side or top.

Basis of approval

1. The technical documentation approved by PRS on 2018-03-09.
2. The Quality Management System Certificates (ISO9001) No. 186120-2015-AQ-POL-RvA issued by DNV/GL.
3. The inspection of the production process and quality control system carried out on 2018-02-14.
4. PRS Survey Report No. SZC/PW/7/18 issued on 2018-02-14.
5. Reports from Environmental and EMC tests carried out acc. to PRS Publication 11/P (Edition January 2016).
6. The previous PRS Type Approval Certificate No. TE/1957/883400/13.

Additional conditions and remarks:

1. Each product is to be marked with: manufacturer name, type, serial number, ambient temperature range (permissible), enclosure protection degree (IP), explosion-proof designation (only for 16 and 16.1 type).
2. The condition for maintain validity of this Certificate is to maintain validity of a.m. ISO9001 Certificate.

Notes

- 1 The approval is valid only when the product is used in accordance with the manufacturer's conditions.
- 2 Changes of product design and materials which influence product quality are to be agreed with PRS.
- 3 Type Approval Certificate will be cancelled in the case of dissatisfactory service results, modifications made in the product structure or materials without PRS' consent, not advising PRS of the manufacturer's name change.

In carrying out survey activities Polski Rejestr Statków S.A. (PRS) makes efforts to ensure that they are conducted with conscientiousness and the principles of good practice, with due regard paid to the state-of-the-art technology. However, neither PRS nor its Surveyors shall bear any civil liability for damage, loss or expense which may arise in consequence or as the outcome of conducting these activities, or the result of information or advice given to the customer by PRS, irrespective of whether or not such were the result of neglect, error or lack of proper information. Nevertheless, should the customer prove that such damage, loss or expense was due to negligence on the part of the Society or its Surveyors, PRS will pay compensation to the customer for his loss up to but not exceeding the amount due for services provided, forming the basis of the customer's claim. In no cases will PRS be responsible for indirect losses (loss of prospective profits, loss of contract, inability to undertake activities, etc.) sustained by the customer and associated with the executing of a commission by PRS.