eurofins

(1) # EU-Type Examination Certificate

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3)	Certificate number:	**SEV 18 ATEX 0133 X**
(4)	Product:	Float level switches and float level transmitter Type: JUMO NESOS 4083XX
(5)	Manufacturer:	JUMO GmbH & Co. KG
(6)	Address:	Moritz-Juchheim-Strasse 1, 36039 Fulda, GERMANY

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no 18-Ex-0056.X01

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:18	**EN 60079-1:14**	**EN 60079-26:15**
EN 60079-31:14	**EN ISO 80079-36:16**	**EN ISO 80079-37:16**

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

See page 3 (20)

Eurofins Electrosuisse Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification

(13) # Appendix

(14) **EU-Type Examination Certificate no. SEV 18 ATEX 0133 X**

(15) **Description of product**

The limit and level measurement takes place according to the Archimedean principle for liquids. The float moves along the guide tube as the level rises or falls.
The magnet in the float actuates the reed contact(s) installed in the guide tube with its magnetic field. The switching status of the reed contact can be evaluated and processed through downstream electronics.
The electrical connection, process connection, guide tube length, float, as well as the number, position, and function of the contacts may vary depending on the ordered variant.
The float switch is used to switch smaller loads such as lamps, horns, PLC inputs, motor controls, pumps or valves.
The float level transmitter measures quasi-continuously the level of a liquid and transmits an standardized output signal.

Details of Rating(s):

Ratings for float level switches

Switch voltage:	max. 250 V AC/DC
Switch current:	max. 1.5 A
Switch power:	max. 100 VA / W

Ratings for float level transmitters

Power supply:	8 V DC to 30 V DC , SELV-circuit

Options:

Ratings for temperature switches

Switch voltage:	max. 250 V AC/DC
Switch current:	max. 1.5 A
Switch power:	max. 100 VA / W

Ratings for temperature sensors

Voltage:	max. 30 V DC
Current:	max. 55 mA
Power:	max. 413 mW

Protection:	IP66 / IP68
Classification of installation:	stationary
Rated ambient temperature:	Depends on the device configuration and is defined in the type drawings or datasheet.

(16) **Report number** 18-Ex-0056.X01

(17) **Specific conditions of use**

1. The rated ambient temperature depends on the device configuration and is defined in the drawings or data sheet.
2. In case the flange, stopper and floats are made from titanium alloy ignition sparks needs to be prevented by the end user.
3. Glands for use with conduit, unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	**Subject**
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

(20) **The marking of the product shall include the following:**

II 1/2 G Ex db h IIC T6...T3 Ga/Gb
II 2 D Ex h tb IIIC T80 °C...200 °C Db

Deviations of the gas group for different configurations :

II 1/2 G Ex db h IIB T6...T3 Ga/Gb or
II 1/2 G Ex db h IIA T6...T3 Ga/Gb
e.g. coated wetted parts or plastic float