

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electrical Equipment**

with type designation(s)

Explosion Protected Switch 14105/*//(**)/(*****)**

Issued to

WISKA Hoppmann GmbH
Kaltenkirchen, Germany

is found to comply with

DNV GL rules for classification – Ships**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Temperature** -40°C=Ta=+40°C (T6/T80°C) / -40°C=Ta=+55°C (T5/T80°C)**Humidity** up to 95%**Vibration** -This Certificate is valid until **2022-02-14**.Issued at **Hamburg** on **2017-02-15**DNV GL local station: **Hamburg**for **DNV GL**Approval Engineer: **Andrea Grün**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Explosion protected switch, 2 poles

Rated voltage :	up to 690V ¹⁾
Rated current :	up to 16 A ¹⁾
Rated connecting on :	1.5 up to 8A / 2.5mm ² up to 16A (fine wire) 1.5 up to 8A / 2.5mm ² ...4mm ² up to 16A (solid core)
Degree of protection :	IP 66
Degree of explosion protection :	Ex II 2 G Ex de IIC T6...T5 Gb Ex II 2 D Ex tb IIIC T80°C Db
Temperature range:	-40°C≤Ta≤+40°C T6 -40°C≤Ta≤+55°C T5 -40°C≤Ta≤+55°C T80°C

¹⁾ = dependent on the utilization category

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-Certificate issued by a notified/recognized Certification Body.
Operating instructions of the manufacturer to be observed.

Type Approval documentation

EC Type -Examination Certificate No. TÜV 14 ATEX 7568 X	dated 24-08-2015
Test report No. 557 / Ex 568.00 / 14	dated 24-08-2015
IECEX Certificate of Conformity No. TUR 15.0017X	dated 24-08-2015
Operating instructions 50081511	Rev. 04/2016
Drawing No. 30080428	

Tests carried out

Applicable tests according to Class guideline DNVGL-CG-0339, November 2016.
Applicable tests according to IEC 60529, IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31.

Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE