



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx TUR 15.0017X Issue No: 0 Certificate history:
Issue No. 0 (2015-08-24)

Status: Current Page 1 of 3

Date of Issue: 2015-08-24

Applicant: WSKA Hoppmann & Mulsow GmbH
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

Electrical Apparatus: Explosion protected Switch 14105/**/(**)/(*****) (for ** see general
product information)

Optional accessory:

Type of Protection: flameproof enclosure, increased safety, dust protected

Marking:
Ex de IIC Gb,
Ex tb IIIC Db
-40°C ≤ Ta ≤ +45°C T6
-40°C ≤ Ta ≤ +55°C T5
-40°C ≤ Ta ≤ +55°C T80°C


Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Klauspeter Graffi

Position:

Head of Certification Body

Signature:
(for printed version)


2015-08-24

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: WISKA Hoppmann & Mulsow GmbH
Kisdorfer Weg 28
24568 Kalltenkirchen
Germany

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/TUR/ExTR15.0017/00](#)

Quality Assessment Report:

[DE/PTB/QAR11.0006/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Explosion protected Switch type 14105/**/(**)/(*****)

CONDITIONS OF CERTIFICATION: YES as shown below:

- The ambient temperature differs from the standard ambient temperature range, details see clause General product description / parameters and manufacturer's instructions.
- For temperature class and max. surface temperature see details clause General product description / parameters.
- The used cable glands and blind plugs must have a minimum operating temperature range of -40 °C up to +80 °C.
- For type of protection Equipment dust ignition protection by enclosure "t" separately certified blanking elements and cable glands with affiliated gaskets/o-rings for tightening between enclosure and cable gland should be used. The gaskets / o-rings must be tested and certified together with the cable glands and must be suitable for this purpose (min. IP6X).

Annex:

[DE-IECEx_TUR_15 0017X_00_Attachment.pdf](#)



Attachment to Certificate
IECEX TUR 15.0017X
Revision 0

Attachment to to Certificate IECEX TUR 15.0017X

Device: Explosion protected Switch 14105/**/**/(**)/(*****)

Manufacturer: WISKA Hoppmann & Mulsow GmbH

Address: Kisdorfer Weg 28
24568 Kaltenkirchen

General product information:

The Explosion protected Switch 14105/**/**/(**)/(*****) (2poles) is designed in Equipment protection by increased safety „e“ or Equipment dust ignition protection by enclosure "t".

The switch serves for connecting or disconnecting electrical circuits.
The switch consists essentially of a bottom part a cover and an inner mounted separately certified switch. The inner mounted switch is designed in type of protection Equipment protection by flameproof enclosures "d" with connecting facilities in Equipment protection by increased safety „e“.

For tightening an O-ring is located between the bottom part and the switch cover.

The bottom enclosure part can be equipped with up to four cable entries dependent which type is needed (M18x1,5 or M20x1,5 or M24x1,5 or M25x1,5), for up to four separately certified cable glands or blind plugs in Equipment protection by increased safety „e“ or Equipment dust ignition protection by enclosure "t".

Used Component:

Control Switch / Switch-Disconnecter type 8008/2-....-...
(IECEX PTB 06.0010U issue No. 2, dated 2015-1-9)



Attachment to Certificate
IECEX TUR 15.0017X
Revision 0

Explosion protected Switch 14105/*/**/(**)/(*****)

14105/	*/	**/	(**)/	(*****)
1	2	3	4	5

- 1 = Type designation:
14105 = Type designation for the switch
- 2 = Specification of number and position of the cable gland
1 = one cable gland
2 = two cable glands side by side
3 = three cable glands
4 = four cable glands
D = two cable glands oppositely
- 3 = Specification of the inner mounted switch type, f. e.:
WE = alteration switch
SE = series switch
etc.
- 4 = Specification color of switch knob:
No specification = switch knob black
RD = switch knob red
etc.
- 4 = Specification of size and sort of cable gland (only if delivered with cable glands), f.e.
2x24-Z14 = two cable glands with rated size M24 with earth link 14 mm
1x20-W10/1x20-Z10 = one cable gland rated size M20 without earth links
For cable diameter 10mm and cable gland size M20 with
earth links for cable diameter 10mm
etc.



Parameter

Rated voltage: up to 690 VAC / 230 VDC
 Rated current: up to 16 A
 Connection cross-section:
 fine wired: 1,5mm² up to 8A / 2,5mm² up to 16A
 Solid core: 1,5mm² up to 8A / 2,5mm² ... 4mm² up to 16A
 Tightening torque terminals 1,8Nm

Rated Limits

AC Rating			
Utilization category	690 V	500 V	415 V
AC-1	16 A	-/-	-/-
AC-3	4 A	8 A	-/-
AC-15	-		16 A
AC-3	16 A	-/-	-/-

DC Rating				
Utilization category	230 V	110 V	60 V	24 V
DC-1	-	6 A	6 A	6 A
DC-3	0,4 A	-	-	-
notes	L/R = 300 ms			

Ambient temperature range: Ta -40 °C up to +45 °C for Temperature class T6
 Ambient temperature range: Ta -40 °C up to +55 °C for Temperature class T5
 and
 for dust protection max surface temperature T80 °C