



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 KIWA 16.0013X

Issue No: 0

Certificate history:

Issue No. 0 (2017-10-23)

Status: Current

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Date of Issue: 2017-10-23

Applicant: **Smitsvonk Holland B.V.**
Goudstraat 6
2718 RC Zoetermeer
The Netherlands

Equipment: **Plugs and Ignition Lances models M22D and M30D and Sockets models M30D**

Optional accessory:

Type of Protection: db

Marking:

Ex db IIC T6...T4 Gb (plugs and sockets)
Ex db IIC T6...T4 Gb/- (ignition lances)

Approved for issue on behalf of the IECEx
Certification Body:

Pieter van Breugel

Position:

Certification Officer

Signature:
(for printed version)

Date:

23 October 2017

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:

Kiwa Nederland B.V. (Unit Kiwa ExVision)
Wilmersdorf 50
7327 AC Apeldoorn
P.O. Box 137
The Netherlands

kiwa 
Partner for progress



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Manufacturer: Smitsvonk Holland B.V.
Goudstraat 6
2718 RC Zoetermeer
The Netherlands

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 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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:

[NL/KIWA/ExTR16.0009/00](#)

Quality Assessment Report:

[NL/DEK/QAR13.0008/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Plugs, Sockets and Ignition Lances models M22D and M30D are used to transfer ignition, thermocouple and ionisation signals between pilot/ignition burners, ignition lances and spark plugs to and from ignition and control units. The plug or socket parts can be closed with a protection cap, models M22D or M30D.

The model code is as follows:

Plug, model PLUG-a-b-c-d

a: electrical circuit: IGN, ION, TC or DTC

b: thread size: M30DS, M30DA, M22DS, M22DA

c: cable gland: NPRNC, BCG, NPCG, SSTCG, SSTRNC, M20M

d: options: LP, Z

Socket, model SOCKET-a-b-c-d

a electrical circuit: IGN, ION, TC or DTC

b: thread size: M30DS, M30DA

c: cable gland: NPRNC, BCG, NPCG, SSTCG, SSTRNC, M20M

d: options: LP, Z

Ignition lance, model a-b-c-d-e

a: lance diameter (mm): 17.2, 22, 26.7

b: connection: M22D, M30D

c: length (mm): max. 6500

d: spark plug: TP1412N, TP17, TK1818, TP181435

e: connection: ½"NPT, ½"BSP, ½"ANSI 150, ¾" ANSI 150, ½"ANSI 300, ¾" ANSI 300, DN20PN16, DN25PN16, AH, Z

Protection cap, model CAP-a-b

a: shape: PLUG, SOCKET

b: connection M20D, M30D

The plugs, sockets and ignition lances provide a degree of protection of IP66 in accordance with IEC 60529.

Electrical data

Ignition energy: 2-18 J per spark; Continuously for max. 9 Joule and up to 2 sparks per second; 3 minutes on/3 minutes off for 9 – 18 Joule and more than 2 sparks per second

Ignition voltage: 1500, 2000 or 3000 V

Ignition frequency: max. 20 sparks per second for 1500 and 2000 V; max. 2 sparks per second for 3000 V

Ignition signal max. peak current: 1000 A for less than 15 µs

Ignition signal average current: < 1 A

Ionisation signal: U < 1500 Vac; I < 0.1 A



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Thermocouple signal: $U < 5 \text{ Vdc}$; $I < 0.1 \text{ A}$

Thermal data

T6: $-40 \text{ }^\circ\text{C}$ to $+65 \text{ }^\circ\text{C}$

T5: $-40 \text{ }^\circ\text{C}$ to $+80 \text{ }^\circ\text{C}$

T4: $-40 \text{ }^\circ\text{C}$ to $+115 \text{ }^\circ\text{C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

The flameproof joints are not intended to be repaired.