



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX SIQ 11.0003X** Page 1 of 5 [Certificate history:](#)
Issue 0 (2011-04-22)

Status: **Current** Issue No: 1

Date of Issue: 2014-06-23

Applicant: **Jakša d.o.o.**
Šlandrova ulica 8
SI-1231 Ljubljana
Slovenia

Equipment: **Solenoid, types TMEEx35/* and TMEEx40/***

Optional accessory:

Type of Protection: **Encapsulation "m", Increased safety "e"**

Marking: Ex e mb IIC T4/T5 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Alja Pregl

Position:

Certification Manager

Signature:
(for printed version)

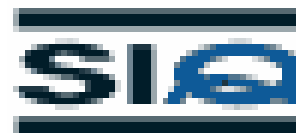
Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Slovenian Institute of Quality and Metrology (SIQ)
Trzaska cesta 2
SI-1000 Ljubljana
Slovenia





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Manufacturer: **Jakša d.o.o.**
Šlandrova ulica 8
SI-1231 Ljubljana
Slovenia

Additional
manufacturing
locations:

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 equipment 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 60079-18:2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition:3

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

This Certificate **does not** indicate compliance with 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:

[SI/SIQ/ExTR11.0001/01](#)

Quality Assessment Report:

[SI/SIQ/QAR11.0002/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The solenoid, types TME_x35 / * and TME_x40 / * , is designed in the type of protection encapsulation "mb" with a terminal box in the type of protection increased safety "e". The solenoid is protected against overheating by means of thermal fuse on the winding.

For supply, ratings and temperature related data see additional page.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The electrical protection of solenoid shall prevent the prospective short circuit current to exceed 1500 A.

- The solenoid shall not be exposed to mechanical damage. If its installation presents risk of mechanical damage, it shall be additionally mechanically protected.

- The maximum ambient temperature is defined by the maximum allowed temperature of the cable gland and the thermal stability of the cable. The selection of the cable and the cable gland shall be based on the notion that the temperature of the cable gland and the cable may exceed the ambient temperature by up to 25 K.

- For allowed temperature range of ambient or medium see Equipment section.

- If the solenoid is installed in explosive gas atmospheres of group IIC, it is necessary to prevent electrostatic charges of the enclosure. The enclosure may be rubbed only with a damp cloth.



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Equipment (continued):

Supply:

Type	U _n
TME _x 35	AC/DC 12 V ± 10%
TME _x 35/A, TME _x 40/A	AC/DC 24 V ± 10%
TME _x 35/B, TME _x 40/B	AC/DC 48 V ± 10%
TME _x 35/C, TME _x 40/C	AC/DC 110 V ± 10%
TME _x 35/D, TME _x 40/D	AC 230 V / DC 200 V ± 10%

Rating: TME_x35 / *10 W except TME_x.....8 W, TME_x40 / *15 W

Minimum temperature of ambient or medium is -40°C.

The following maximum ambient or medium temperatures T_{max} shall be considered for temperature class T5:

Type	T _{max}
TME _x 40/D	+40°C
TME _x 35/A, TME _x 35/C, TME _x 35/D, TME _x 40/C	+45°C
TME _x 35	+49°C
TME _x 40/A, TME _x 40/B	+50°C
TME _x 35/B	+55°C

The following maximum ambient or medium temperatures T_{max} shall be considered for temperature class T4:

Type	T _{max}
TME _x 35/A, TME _x 35/C, TME _x 40/D	+65°C
TME _x 35	+69°C
TME _x 35/D, TME _x 40/A, TME _x 40/C	+70°C
TME _x 35/B, TME _x 40/B	+75°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Ambient temperature range for all versions is extended to -40°C and new version of solenoid with type designation TMEx35 with nominal voltage 12 V is added. For all types conformity with new edition of standard IEC 60079-0:2011, 6th Edition, was assessed.