



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:
Status: **Current** Issue No: 2 [Issue 1 \(2014-06-23\)](#)
[Issue 0 \(2011-04-22\)](#)
Date of Issue: 2020-04-23
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 eb mb IIC T4/T5 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Zoran Svetik

Director of PMT Department

Position:

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)
Masera-Spasicева ulica 10
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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR11.0001/02](#)

Quality Assessment Report:

[SI/SIQ/QAR11.0002/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The solenoid, types TMEx35 / * and TMEx40 / * , is designed in the type of protection encapsulation "mb" with a terminal box in the type of protection increased safety "eb". 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:

- Solenoid must be electrically protected so that prospective short circuit current cannot exceed 1500 A.
- Solenoid shall not be exposed to mechanical damage. If the solenoid is installed in a location exposed to mechanical damage, it shall be additionally mechanically protected.
- For cable and cable gland selection shall be considered that the cable and cable gland can heat up to 25°C above the ambient temperature.
- For allowed temperature range of ambient or medium see Equipment section.
- If solenoid is installed in an environment with gases of group IIC, electrostatic charges on the enclosure shall be prevented. Enclosure rubbing is allowed only with wet cloth.



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Equipment (continued):

Supply:

Type:	Supply voltage:
TMEEx35	AC/DC 12 V \pm 10%
TMEEx35/A, TMEEx40/A	AC/DC 24 V \pm 10%
TMEEx35/B, TMEEx40/B	AC/DC 48 V \pm 10%
TMEEx35/C, TMEEx40/C	AC/DC 110 V \pm 10%
TMEEx35/D, TMEEx40/D	AC 230 V / DC 200 V \pm 10%

Rating: TMEEx35 / *10 W except TMEEx.....8 W, TMEEx40 / *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}
TMEEx40/D	+40°C
TMEEx35/A, TMEEx35/C, TMEEx35/D, TMEEx40/C	+45°C
TMEEx35	+49°C
TMEEx40/A, TMEEx40/B	+50°C
TMEEx35/B	+55°C

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

Type	T_{max}
TMEEx35/A, TMEEx35/C, TMEEx40/D	+65°C
TMEEx35	+69°C
TMEEx35/D, TMEEx40/A, TMEEx40/C	+70°C
TMEEx35/B, TMEEx40/B	+75°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Gasket material and supplier was changed.
- For all types of the solenoid conformity with new editions of standards was assessed.