

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 11 ATEX 7152 X

Issue: 02


- (4) Equipment: **Junction Box LJB1, LJB1 – S *, LJB2, LJB2D, LJB2W**
- (5) Manufacturer: **MASHIN SAZI SHOMAL PIROOZ**
- (6) Address: **C2 AVE., Salmanshahr Industrial Park, Salmanshahr, Mazandaran, Iran**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The certification body for explosion protection of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report 557 / Ex 152.02/ 11.
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

 **II 2G Ex db IIC T6/T5/T4 Gb**
II 2D Ex tb IIIC T85°C/T100°C/T135°C Db

TÜV Rheinland certification body for explosion protection

Cologne, 2020-11-05


Dipl.-Ing. Andreas Maschke


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This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Cologne.
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(13)

Annex

(14)

EU-Type Examination Certificate

TÜV 11 ATEX 7152 X Issue: 02

(15)

Description of equipment

15.1 Equipment and type

Junction Box type LJB1, LJB1 – S *, LJB2, LJB2D, LJB2W.

The * is a placeholder for type of switch. Refer to general product information or manual

15.2 General product information

The LJB Junction Boxes are manufactured in two sizes, designated as Type LJB1 and LJB2 enclosures.

Both Types use an aluminium screw cover enclosure that is provided with internal and external earthing facilities and its walls have threaded entries that allow external cables to be connected. This enclosure is certified under IECEx TUR 11.0020U.

Internally, the LJB1 may be fitted with baseboard mounted terminals, the LJB2 may be fitted with baseboard mounted terminals, transformers, relays, contactors, electronic devices and fuses, as detailed on the scheduled drawings.

In addition following variants of LJB* series are available:

LJB1S- contains of a cover with a rotary switch (*=type of switch).

LJB2D consist of a dome shaped cover.


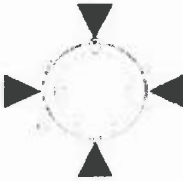


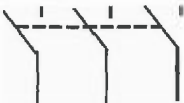
LJB2W consist of a cover with window.

The maximum permitted internal power dissipations (in Watts) for various temperature classes, are as follows:

Designation	T _a =-30°C to +55°C			T _a = -20°C to +40°C		
	T6	T5	T4	T6	T5	T4
LJB 1	10	18	39	18	26	47
LJB 2	15	28	57	28	41	70

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The LJB1S-*, are available as follows:

Type	Contacts / poles		I _e / V _e	Entry arrangement	Entry size(s)
LJB1S-A	0 - 1		20A / 690v		Entries shall be threaded with any combination of following thread forms/sizes: A. Standard: ISO M16 to M25 to BS 3643 pt2 1.5mm pitch (medium fit 6H) B. Alternative: 1/2 NPT to 3/4 NPT to ANSI/ASME B1.20.1, gauging flush to 2turns large, with L1 plug gauge. Unused entries shall be plugged with a suitable "Ex d" certified stopping plugs. Max. number of entries = 4 Max.
LJB1S-B	1 - 2		20A / 690v		
LJB1S-C	1 - 0 - 2		20A / 690v		
LJB1S-D	0 - 1		20A / 690v		

Condition of Manufacture

The internally mounted components shall not exceed the bounds of the baseboard and shall not exceed more than 60% of any internal cross-section.

15.3 Details of Change:

The LJB Series is extended with:

1. LJB1S-*. They contain one of 4 different rotary switches.
2. LJB2 Body design changed.
3. LJB2D with a dome shaped cover.
4. LJB2W consist of a cover with window.
5. Removed overpressure tests for all enclosures but LJB2W, due to 4 times overpressure re testing

Added special condition No. 2 according to IEC/EN 60079-1:2014. Standards were updated.

Any other data stays the same like in the former certificates.

(16) Test report no. 557 / Ex 152.02 / 11

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(17) Special conditions for safe use

1. The cable entry holes shall be fitted with suitably certified cable glands or suitably certified stopping plugs, which are capable of maintaining the IP66 rating of the equipment.
2. The flame proof joints are not intended to be repaired.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standards.

TÜV Rheinland certification body for explosion protection

Cologne, 2020-11-05


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