Disclaimer

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Any warranty claims are limited to the right to demand amendments. Liability for any damage that might result from the content of this description or all other documentation is limited to clear cases of premeditation.

We reserve the right to change our products and their specifications at any time, provided it is in the interest of technical progress. The information in the current manual (in the internet and on CD / DVD / USB stick) or in the operating instructions included with the device applies.

Trademarks
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Specific markings

The markings in these operating instructions refer to specific features that must be noted.

In detail, these are:

- **DANGER**: This sign alerts users to hazards that **will** result in death or serious injury if ignored!

- **WARNING**: This sign alerts users to hazards that **may** result in death or serious injury if ignored!

- **CAUTION**: This sign alerts users to hazards that may damage machinery or equipment or result in injury if ignored!

- **ATTENTION**: Information highlighted by this symbol indicates measures for the prevention of damage to machinery or equipment!

- **NOTICE**: Information highlighted by this symbol indicates important information of which particular note should be taken!

- **DOCUMENTATION**: Information highlighted by this symbol refers to a different chapter or section in this manual or other documentation or a web-page!

**Warnings**

- **Caution!**
  - The HMI device surface may heat up at ambient temperatures higher than 45 °C!
  - Caution at contact!
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<td>14</td>
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<td>17</td>
</tr>
</tbody>
</table>
1 Preface

These Operating Instructions contain all aspects relevant to explosion protection for the MSi-JM0100-USB*. They also contain information on the connection and installation (etc.) of these devices.

All data relevant to explosion protection from the EC-type examination certificate were copied into these operating instructions.

For the correct operation of all associated components please note, in addition to these operating instructions, all other operating instructions enclosed in this delivery as well as the operating instructions of the additional equipment to be connected!

2 Device function

The type MSi-JM0100-USB* mouse is used to enter data, commands etc. on PCs and similar devices in hazardous areas.

The type MSi-JM0100-USB* mouse is explosion-protected equipment for installation in hazardous areas, in zone 1 and 2. The devices may be connected to intrinsically safe USB interfaces. Power supply and data communication takes place via the Interface. The mouse is connected with a fixed cable.

3 Technical data

<table>
<thead>
<tr>
<th>Function / Equipment</th>
<th>MSI-JM0100-USB*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>via USB interface</td>
</tr>
<tr>
<td>Connections</td>
<td>via a fixed connected cable, max. length 1.8 m</td>
</tr>
<tr>
<td>Cable type</td>
<td>0.08 mm² / AWG28</td>
</tr>
<tr>
<td>Cable wire (numbers)</td>
<td>4</td>
</tr>
<tr>
<td>Mouse wheel design</td>
<td>Tilt-Wheel</td>
</tr>
<tr>
<td>Design</td>
<td>Right hand design</td>
</tr>
<tr>
<td>Number of keys</td>
<td>5</td>
</tr>
<tr>
<td>Scanning</td>
<td>optical</td>
</tr>
<tr>
<td>Resolution</td>
<td>500 / 1000 dpi (adjustable)</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>0°C ≤ Ta ≤ +40°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>−15°C ≤ Ta ≤ +60°C</td>
</tr>
<tr>
<td>Housing color</td>
<td>black</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Dimensions [mm] [LxWxH]</td>
<td>107 x 66 x 41</td>
</tr>
<tr>
<td>Weight [g]</td>
<td>200</td>
</tr>
</tbody>
</table>
4 Conformity to standards

The MSi-JM0100-USB* mouse complies with the following standards and directives:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX Directive 2014/34/EU</td>
<td></td>
</tr>
<tr>
<td>IEN 60079-0 : 2012</td>
<td>General requirements</td>
</tr>
<tr>
<td>IEC 60079-11 : 2012</td>
<td>Protection by intrinsic safety &quot;i&quot;</td>
</tr>
<tr>
<td>Electromagnetic Compatibility</td>
<td></td>
</tr>
<tr>
<td>EMV Directive</td>
<td></td>
</tr>
<tr>
<td>2014/30/EU</td>
<td></td>
</tr>
<tr>
<td>EN 61000-6-2 : 2005</td>
<td>Immunity</td>
</tr>
<tr>
<td>EN 61000-6-4 : 2011</td>
<td>Emission</td>
</tr>
</tbody>
</table>

5 Certificates

The MSi-JM0100-USB* mouse is certified for installation in the following areas:

Europe:
- according to ATEX Directive
  for installation in zones 1 and 2

International:
- IECEx (International Electrotechnical Commision System for Certification to Standards for Electrical Equipment for Explosive Atmospheres)

5.1 ATEX

The ATEX certificate is listed under the following certification number:

Certificate number: BVS 13 ATEX E 028

5.2 IECEx

The IECEx certificate is listed under the following certification number:

Certificate number: IECEx BVS 13.0038

You can access all IECEx certificates on the official website of the IEC under their certificate number. http://iecex.iec.ch/iecex/iecexweb.nsf/welcome?openform.
6 Marking

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>R. STAHL HMI Systems GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type code</td>
<td>MSi-JM0100-USB*</td>
</tr>
<tr>
<td>CE classification:</td>
<td>CE 0158</td>
</tr>
<tr>
<td>Testing authority and certificate number:</td>
<td>BVS 13 ATEX E 028</td>
</tr>
<tr>
<td></td>
<td>IECEx BVS 13.0038</td>
</tr>
<tr>
<td>Ex classification:</td>
<td></td>
</tr>
<tr>
<td>ATEX Directive</td>
<td>Ex II 2 G Ex ia IIC T4 Gb</td>
</tr>
<tr>
<td>IECEx</td>
<td>Ex ia IIC T4 Gb</td>
</tr>
</tbody>
</table>

7 Permitted maximum values

7.1 Intrinsically safe values MSi-JM0100-USB*

<table>
<thead>
<tr>
<th>Output parameters:</th>
<th>Input parameters:</th>
</tr>
</thead>
<tbody>
<tr>
<td>( U_{\text{Omax}} ) = ( U_{\text{Imax}} )</td>
<td>( U_{\text{Imax}} ) = 5.9 V AC/DC</td>
</tr>
<tr>
<td>( I_{\text{Omax}} ) = ( I_{\text{Imax}} )</td>
<td>( I_{\text{Imax}} ) = 2.7 A</td>
</tr>
<tr>
<td>( P_{\text{Omax}} ) = ( P_{\text{Imax}} )</td>
<td>( P_{\text{Imax}} ) = not limited</td>
</tr>
<tr>
<td>( C_{\text{Imax}} )</td>
<td>38 ( \mu )F</td>
</tr>
<tr>
<td>( L_{\text{Imax}} )</td>
<td>0.9 ( \mu )H</td>
</tr>
</tbody>
</table>

\( U_{\text{Omax}} \) is identical with \( U_{\text{Imax}} \),
\( I_{\text{Omax}} \) is identical with \( I_{\text{Imax}} \)

8 Type code

MSi-JM0100-USB*

* any alphanumeric or symbolic characters, without relevance for explosion protection
9 Safety Advice

This chapter is a summary of the key safety measures. The summary is supplementary to existing rules which staff also have to study.

The safety of persons and equipment in hazardous areas depends on compliance with all relevant safety regulations. Thus, the installation and maintenance staff carry a particular responsibility, requiring precise knowledge of the applicable regulations and conditions.

9.1 Installation and operation

Please note the following when installing and operating the device:

- The national regulations for installation and assembly apply (e.g. IEC/EN 60079-14).
- The mouse may be installed in zones 1 or 2.
- The intrinsically safe circuits must be installed according to applicable regulations.
- Cables for intrinsically safe wiring have to pass a test voltage of AC 500 V / DC 750 V. Use the values 200 pF/m and 1 μH/m at unknown cable properties. Do not use premounted interface cable of MSi-JM0100-USB* in Zones 0 or 20.
- When the interface of intrinsically safe devices/partial intrinsically safe devices was or is connected to not intrinsically safe interfaces, the license will become void and it must be operated as a not intrinsically safe device. If the device was operated on an intrinsically safe interface with a lower level of international protection (e.g. a Ex ia device on a Ex ib interface), it must not be operated afterwards in applications for a higher level of international protection (e.g. Ex ia).
- Interconnecting several active devices in an intrinsically safe circuit may result in different safe maximum values. This could compromise intrinsic safety!
- The safe maximum values of the connected field device(s) must correspond to the values listed on the data sheet or the EC type examination certificate.
- During assembly and operation of the mouse electrostatic surface charging must not exceed that caused by manual rubbing.
- National safety and accident prevention rules.
- Generally accepted technical rules.
- Safety instructions contained in these operating instructions.
- Any damage may compromise the explosion protection!

Use the device for its intended purpose only (see "Device Function"). Incorrect or unauthorized use and non-compliance with the instructions in this manual will void any warranty on our part.

No changes to the device that compromise its explosion protection are permitted!

The device may only be installed and operated in an undamaged, dry and clean condition!
9.2 Cautionary note

ATTENTION

This is an EN 55022 Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

10 Mechanical dimensions

View:

Dimensions in mm
107 x 66 x 41 (L x W x H)

11 Connections Mouse

The mouse is fitted with a fixed cable which is 1.8 metres long.

<table>
<thead>
<tr>
<th>Cable</th>
<th>Colour</th>
<th>Signal name</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red</td>
<td>U</td>
<td>Power supply input</td>
</tr>
<tr>
<td>2</td>
<td>White</td>
<td>D-</td>
<td>Data D-</td>
</tr>
<tr>
<td>3</td>
<td>Green</td>
<td>D+</td>
<td>Data D+</td>
</tr>
<tr>
<td>4</td>
<td>Black</td>
<td>GND</td>
<td>GND</td>
</tr>
</tbody>
</table>
12 Maintenance, service

Associated equipment is subject to maintenance, service and testing according to guidelines 1999/92/EC, IEC/EN 60079-14, -17, -19 and BetrSichVer (Betriebssicherheitsverordnung - Occupational Safety and Health)!

Because the transmission of the devices remains reliable and stable over long periods of time, regular adjustments are not required.

12.1 Servicing

In accordance with IEC 60079-19 and EN 60079-17, operators of electric plants in hazardous areas are obliged to have them serviced by qualified electricians.

13 Troubleshooting

Devices operated in hazardous areas must not be modified. Repairs may only be carried out by qualified, authorized staff specially trained for this purpose.

Repairs may only be carried out by specially trained staff who are familiar with all basic conditions of the applicable user regulations and – if requested – have been authorized by the manufacturer.

14 Disposal

Disposal of old electric and electronic devices, packaging and used parts is subject to regulations valid in whichever country the device has been installed.

For countries under the jurisdiction of the EU the corresponding WEEE directive applies.

The mouse devices are classified according to the table below:

<table>
<thead>
<tr>
<th>Category</th>
<th>old</th>
<th>new</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valid</td>
<td>until 14.08.2018</td>
<td>from 15.08.2018</td>
</tr>
<tr>
<td>Category</td>
<td>Monitoring and control devices</td>
<td>SG6 Small IT and telecommunication equipment &lt;50 cm</td>
</tr>
</tbody>
</table>

We shall take back our devices according to our General Terms and Conditions.

14.1 RoHS directive 2011/65/EC

The revised version of the RoHS (restriction of hazardous substances) 2002/95/EC directive, directive 2011/65/EC, extends its area of application to all electric and electronic products.

The mouse conforms with the requirements from RoHS directive 2011/65/EU, dated 03.01.2013.

14.1.1 China RoHS labelling

According to new Chinese legislation in force since 01.03.2007, all devices containing hazardous substances must be labeled accordingly.

The part of all toxic or hazardous substance contained in the homogeneous materials of the mouse is below the limit stipulated in SJ/T11363-2006.
# 15 Certificates

## 15.1 Declaration of EC conformity

**EU-Konformitätserklärung**  
EU Declaration of Conformity  
Déclaration de Conformité UE

R. STAHL HMI Systems GmbH • Adolf-Grimme-Allee 8 • 50829 Köln, Germany  
 erklärt in alleiner Verantwortung, declares in its sole responsibility, déclare sous sa seule responsabilité,

- Maus  
  Mouse  
  Souris

Typ(en), type(s), type(s):  
MSI-JM0100-USB

*any alphanumeric or symbolic characters, without relevance for explosion protection

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt. is in conformity with the requirements of the following directives and standards. est conforme aux exigences des directives et des normes suivantes.

<table>
<thead>
<tr>
<th>Richtlinie(n) / Directive(s) / Directive(s)</th>
<th>Norm(en) / Standard(s) / Norme(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX-Richtlinie</td>
<td>EN 60079-0: 2012</td>
</tr>
<tr>
<td>Directive ATEX</td>
<td></td>
</tr>
<tr>
<td>2014/34/EU</td>
<td></td>
</tr>
</tbody>
</table>

Kennzeichnung, marking, marquages:  
II 2 G  
Ex ia IIC T4 Gb

EG/EU-Baumusterprüfbescheinigung:  
ECEEU Type Examination Certificate.  
Attestation d'examen CE/UE de type:

- BVS 13 ATEX E 028
- DEKRA EXAM GmbH (ID0158)
  - Dinnendahlstraße 9  
  - 44809 Bochum  
  - Germany

EMV-Richtlinie  
EMC Directive  
Directive CEM

| 2014/30/EU                                | EN 61000-6-2: 2005                 |
| Directives CEM                            | EN 61000-6-4: 2011                 |

Produktnormen nach RoHS-Richtlinie (2011/65/EU):  
Product standards according to RoHS Directive:  
Normes des produit pour la Directive RoHS:

- EN 50178: 1997  
- EN 61010-1: 2001+ Corrigendum / Errata

Köln, 2016-04-22

Ort und Datum  
Place and date  
Lieu et date

J. Düren  
Technical Director

W. Bertges  
Quality Manager

20161770040 Konformitätserklärung MSI-JM0100.docx

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15.2  ATEX certification

Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: BVS 13 ATEX E 028

(4) Equipment: Mouse type MSI-JM0100-USB

(5) Manufacturer: R. STAHL HMI Systems GmbH

(6) Address: Im Gewerbegebiet Pesch 14, 50767 Köln, Germany

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment 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 atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 13.2000 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 General requirements
EN 60079-11:2012 Intrinsic safety "i"

(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 appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of the equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

Ex II 2G Ex ia IIC T4 Gb

DEKRA EXAM GmbH
Bochum, dated 18th March 2013

Signed: Hans Christian Spanner
Signed: Dr. Franz El Koch

Certification body
Special services unit

Page 1 of 2b, BVS 13 ATEX E 028
This certificate may only be reproduced in stamp form and without change.
DEKRA EXAM GmbH, Dr. von Dänikenstrasse 5, 44200 Bochum, Phone: +49 234 3568101 Fax: +49 234 3568111 sales-dekrainfo.com
(13) Appendix to

(14) EC-Type Examination Certificate
BVS 13 ATEX E 028

(15) 15.1 Subject and type
Mouse type MSi-JM0100-USB*

In the complete denomination, the asterisk is replaced by alphanumeric or symbolic characters without relevance for explosion protection.

15.2 Description
The Mouse type MSi-JM0100-USB* is an intrinsically safe apparatus for connection to intrinsically safe interfaces. It is supplied via a permanently connected 4-wire cable with max. 1.8 m length.

15.3 Parameters
15.3.1 Intrinsically safe power supply and data input in level of protection „Ex ia IIC“.
Wires (1,2,3)-4
Max. input voltage
Ui DC
5.9 V
Max. input current
II
2.7 A
Max. internal capacitance
Ci
38 µF
Max. internal inductance
LI
0.8 mH

The maximum internal capacitance and inductance respect a length of 1.8 m for the permanently connected cable.

Max. output voltage
Uo
5.9 V
Max. output current
Io
2.7 A

1’) Uo identical with Ui
2’) Io identical with II

15.3.2 Ambient temperature range
Ta
-20 °C ... +50 °C

(16) Test and assessment report
BVS PP 13,2060 EG as of 10th March 2013

(17) Special conditions for safe use
None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44800 Bochum, 18th March 2013
BVS-Le/Ma A 20121287

Certification body
Special services unit

Page 2 of 2 to BVS 13 ATEX E 028
This certificate may only be reproduced in its entirety and without change.
DEKRA EXAM GmbH, DISSENDORF 40474 DISSENDORF, PHONE +49 294-2096-100, FAX +49 294-2096-110, de Exam@deka.com
15.3 IECEx certification

![IECEx Certificate of Conformity](image)
IECEx Certificate of Conformity

Certificate No.: IECEx BVS 10.0039
Date of Issue: 2013-03-29
Issue No.: 0

Manufacturer:
R. Stahl HMI Systems GmbH
Im Gewerbepark Pech 14
5776 Töging
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 Explosive atmospheres – Part 0: General requirements
Edition: 6.0

Edition: 6.0

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:
DE/BVS/ExTR15.0039/00

Quality Assessment Report:
DE/BVS/QA0100.0037/00
IECEx Certificate of Conformity

Certificate No.: IECEx BVG 13.0039
Date of Issue: 2013-03-25
Issue No.: 0
Page 3 of 3

Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

Subject and type
Mouse type MSi-JM0100-USB

In the complete denomination, the asterisk is replaced by alphanumeric or symbolic characters without relevance for explosion protection.

Description
The Mouse type MSi-JM0100-USB is an intrinsically safe apparatus for connection to intrinsically safe interfaces. It is supplied via a permanently connected cable with max. 1.5 m length.

Parameters
1 Intrinsically safe power supply and data input in level of protection "Ex ia IIC"

Wires (1,2,3,4)

Max. input voltage
\( U_i \) 5.9 V

Max. input current
\( I_i \) 2.7 A

Max. internal capacitance
\( C_i \) 35 \( \mu \)F

Max. internal inductance
\( L_i \) 0.9 \( \mu \)H

The maximum internal capacitance and inductance respect a length of 1.8 m for the permanently connected cable.

Max. output voltage
\( U_o \) 5.9 V

Max. output current
\( I_o \) 2.7 V

1) \( U_o \) identical with \( U_i \)
2) \( I_o \) identical with \( I_i \)

Ambient temperature range
\( T_a \) 20 °C ... +50 °C

CONDITIONS OF CERTIFICATION: NO
16 Release notes
The chapter entitled "Release Notes" contains all the changes made in every version of the Operating Instructions.

Version 01.00.00
- First edition, for approval

Version 01.00.01
- Including all relevant information from approval
- Including mechanical drawings
- Including declaration of EC conformity
- Including certificates
- Addition of technical data
- Text and layout corrections

Version 01.00.02
- Change of address
- Changes to section "Disclaimer"
- Addition of Warning "High Temperature" in section "Warnings"
- Changing Conformity to standards
- Adaption section "RoHS directive" with device conformity
- Renew declaration of EC conformity
- Text and layout corrections

Version 01.00.03
- Addition of section "Specific markings"
- Changing of all markings according to the new definition
- Correction IECEx marking
- Correction ATEX certificat number
- Correction WEEE directive
- Text and layout corrections

Version 01.00.04
- Adaption of section "Disposal" according to the current WEEE directive
- Formal changes