

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS**
- Certificate No:** FM16US0159U
- Component:**
(Type Reference and Name) Series 8008/2-0.. Explosion-Protected Control Switch.
Series 8008/2-1.. Explosion-Protected Control Switch.
Series 8008/2-6.. Explosion-Protected Load Switch.
- Name of Listing Company:** R STAHL Schaltgeräte GmbH
- Address of Listing Company:** am Bahnhof 30
74638 Waldenburg
GERMANY
- The examination and test results are recorded in confidential report number:

3058331 dated 14th November 2016
- FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:

FM Approvals Class 3600:2022, ANSI/UL 60079-0:2020, ANSI/UL 60079-1:2020;
ANSI/UL 60079-7:2017; ANSI/UL 508:2008, ANSI/UL 60947-1:2013,
- The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.
- This certificate relates to the design, examination and testing of the components specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the component as examined, tested and Approved.

Certificate issued by:

J.E. Marquedant
VP – Manager - Electrical Systems

8 February 2023
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



US Certificate of Conformity No: FM16US0159U

10. Component Ratings:

Series 8008/2-0.. Control Switch:

Series 8008/2-1.. Control Switch:

Class I, Zone 1, AEx db eb IIC T6 Gb Ta = -50 °C to +60 °C

Class I, Division 2, Groups A, B, C, D, T6 Ta = -50 °C to +60 °C

Series 8008/2-6.. Load Switch:

Class I, Zone 1, AEx db eb IIC T6...T5 Gb Ta = -50 °C to +50 °C...+60 °C

Class I, Division 2, Groups A, B, C, D, T6...T5 Ta = -50 °C to +50 °C...+60 °C

11. The marking of the component shall include:

for Series 8008/2-0.. Control Switch:

for Series 8008/2-1.. Control Switch:

CI I, Zn 1, AEx db eb IIC T6 Gb

CI I, Div 2, Gps ABC&D (US)

Ambient temperature rating

Electrical ratings

Certificate numbers

FM Approval mark (US)

for Series 8008/2-6.. Load Switch:

CI I, Zn 1, AEx db eb IIC T6...T5 Gb

CI I, Div 2, Gps ABC&D (US)

Ambient temperature ratings

Electrical ratings

Certificate numbers

FM Approval mark (US)

12. **Description of Equipment:**

The Series 8008 control switch and load switch is an assembly of flameproof switches with increased safety terminals, intended to be mounted in a suitable increased safety “eb” enclosure for Class I / Zone 1 applications, or a suitable general purpose enclosure for Class I / Division 2 applications.

8008/2-a. Control Switch.

FM16US0159U

I / 1 / AEx db eb IIC / T6 / Gb Ta = -50 °C to +60 °C

S / I / 2 / ABCD / T6 Ta = -50 °C to +60 °C

a = Contact Configuration 002, 005, 016, 025, 027, 033, 034, 035, 038, 040, 045, 047, 048, 051, 053, 1261, 1260, 102, 106, 107, 108, 110, 113, 119, 124, 127, 130, 139, 145, 148, 162, 163, 170, 196, 197, 1232, 1114, 1136, 1140, 1168, 1178, or 1207.

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



Member of the FM Global Group

US Certificate of Conformity No: FM16US0159U

Schedule of Limitations:

1. For Class I, Zone 1 applications, the Control Switch shall be installed in an Increased Safety “eb” enclosure.
2. For Class I, Zone 1 applications, the Control Switch shall be installed in the enclosure such that the creepage and clearance complies with the Increased Safety spacing requirements ANSI/UL 60079-7.
3. For Class I, Division 2 applications, the Control Switch shall be installed in an enclosure that complies with the requirements for the specific application.
4. For Class I, Division 2 applications, the Control Switch shall be installed in the enclosure such that the creepage and clearance comply with the requirements of specific application.
5. The flameproof joints cannot be repaired.

8008/2-a. Load Switch.

FM16US0159U

I / 1 / AEx db eb IIC / T6...T5 / Gb Ta = -50 °C to +50 °C...+60 °C

S / I / 2 / ABCD / T6...T5 Ta = -50 °C to +50 °C...+60 °C

a = Contact Configuration 602, 603, or 613.

Schedule of Limitations:

1. For Class I, Zone 1 applications, the Load Switch shall be installed in an Increased Safety “eb” enclosure.
2. For Class I, Zone 1 applications, the Load Switch shall be installed in the enclosure such that the creepage and clearance complies with the Increased Safety spacing requirements ANSI/UL 60079-7.
3. For Class I, Division 2 applications, the Load Switch shall be installed in an enclosure that complies with the requirements for the specific application.
4. For Class I, Division 2 applications, the Load Switch shall be installed in the enclosure such that the creepage and clearance comply with the requirements of specific application.
5. The flameproof joints cannot be repaired.

13. Schedule of Limitations:

See Description of the equipment

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 th November 2016	Original Issue

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



Member of the FM Global Group

US Certificate of Conformity No: FM16US0159U

8 th February 2023	<u>Supplement 01:</u> 3058331_RR235831 dated 8 th February 2023. Description of the Change: Update to latest standards.
-------------------------------	--

FM Approvals

FM Approvals

FM Approvals

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com