

CERTIFICATE OF CONFORMITY

1. HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS

2. **Certificate No:** FM16US0159U
3. **Component:** Series 8008. Explosion-Protected Switches
(Type Reference and Name)
4. **Name of Listing Company:** R. STAHL Schaltgeräte GmbH
5. **Address of Listing Company:** Am Bahnhof 30, D-74638 Waldenburg (Württ.), Germany
6. The examination and test results are recorded in confidential report number:
3058331 dated 14th November 2016

7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, ANSI/UL 508:2021, ANSI/UL 60079-0:2020, ANSI/UL 60079-1:2020, ANSI/UL 60079-7:2021

8. 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.
9. This certificate relates to the design, examination and testing of the component 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.

10. Component Ratings:

See Description of the equipment in Annex

11. The marking of the component shall include:

See Description of the equipment in Annex

12. Description of Component:

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

19 June 2024

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. One Technology Way, Norwood, MA 02062 USA
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F 330 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM16US0159U



Member of the FM Global Group

The Series 8008 control switches and load disconnect switches are 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.

13. Schedule of Limitations:

See Description of the equipment in Annex

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 November 2016	Original Issue
8 February 2023	<u>Supplement 01:</u> 3058331_RR235831 dated 8 th February 2023. Description of the Change: Update to latest standards.
19 June 2024	<u>Supplement 2:</u> Report Reference: RR241797 dated 19 June 2024. Description of the Change(s): Update to latest Approval Guide format Update to latest standards Addition of 8008/4 series switches

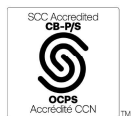
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ANNEX

8008/2 Control Switch

Component Ratings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C

Markings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C
FM16US0159U
Electrical ratings

Description of Component:

8008/2-c-d. Control Switch.

c-d = Design / Contact configuration. 0-02, 0-05, 0-16, 0-25, 0-27, 0-33, 0-34, 0-35, 0-38, 0-40, 0-45, 0-47, 0-48, 0-51, 0-53, 1-261, 1-260, 1-02, 1-06, 1-07, 1-08, 1-10, 1-13, 1-19, 1-24, 1-27, 1-30, 1-39, 1-45, 1-48, 1-62, 1-63, 1-70, 1-96, 1-97, 1-232, 1-114, 1-136, 1-140, 11-68, 1-178, or 1-207.

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 Load Disconnect Switch

Component Ratings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C

Markings:

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CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C
FM16US0159U
Electrical ratings

Description of Component:

8008/2-c-d. Load Disconnect Switch.

c-d = Design - Contact Configuration 6-02, 6-03, or 6-13.

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.

8008/4 Control Switch

Component Ratings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C

Markings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C
FM16US0159U
Electrical ratings

Description of Component:

8008/4-1d-e. Control Switch.

d-e = Design / Contact configuration. 0-02, 0-05, 0-16, 0-25, 0-27, 0-33, 0-34, 0-35, 0-38, 0-40, 0-45, 0-47, 0-48, 0-51, 0-53, 1-261, 1-260, 1-02, 1-06, 1-07, 1-08, 1-10, 1-13, 1-19, 1-24, 1-27, 1-30, 1-39, 1-45, 1-48, 1-62, 1-63, 1-70, 1-96, 1-97, 1-232, 1-114, 1-136, 1-140, 11-68, 1-178, or 1-207.

Schedule of Limitations:

1. For Class I, Zone 1 applications, the Control Switch shall be installed in an Increased Safety "eb" enclosure.

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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.

8008/4 Load Disconnect Switch

Component Ratings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C

Markings:

CI I, Zn 1, AEx db eb IIC Gb
CI I, Div 2, Gps ABC&D
Ta = -50 °C to +60 °C
FM16US0159U
Electrical ratings

Description of Component:

8008/4-1d-e. Load Disconnect Switch.

d-e = Contact Configuration 6-02, 6-03, or 6-13.

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.

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