

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS**
2. **Certificate No:** FM20US0013U
3. **Component:** Built-in Mini and Miniature Limit Switch Types
(Type Reference and Name) 07-1501-****/**** and 07-2501-****/****
4. **Name of Listing Company:** BARTEC GmbH
5. **Address of Listing Company:** Max Eyth Strasse 16
D97980 Bad Mergentheim
Germany
6. The examination and test results are recorded in confidential report number:

1Z2A3.AE dated 25th September 1995
7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:

FM Class 3600:1989, FM Class 3615:1989, FM Class 3810:1989, ANSI/UL 508:1994,
ANSI/ISA 60079-0:2013, ANSI/UL 60079-1:2015
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:**

Explosionproof for Class I, Division 2, Groups A, B, C, D and Flameproof for Class I, Zone 1, AEx db IIC Gb hazardous (classified) locations with a service temperature rating of -60°C to +100°C.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

19 May 2020

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
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11. The marking of the component shall include:

Class I, Division 2, Groups A, B, C, D

Class I, Zone 1, AEx db IIC Gb

12. **Description of Equipment:**

General - The Built-in Mini and Miniature Limit Switch Types 07-1501-****/**** and 07-2501-****/**** are miniature switches for electrical and control signaling. The switch contacts are enclosed in an explosionproof/flameproof polyester housing with three potted leads (07-1501-****/****) or a potted cable pigtail (07-2501-****/****) for electrical connections to the switch. Normally open, normally closed or single-pole/double-throw switches can be provided.

Ratings - The Built-in Mini and Miniature Limit Switch Types 07-1501-****/**** and 07-2501-****/**** are rated 30 Vdc, 0.4A; 250 Vac, 1A/5A; 0-15 Vdc, 5A; 15-30 Vdc, 3A. Values separated by a slash are for ohmic load/inductive load. The switches have a service temperature rating of -60°C to +100°C.

07-1501-abcx/xxxx. Limit Switch.

07-2501-abcx/xxxx. Limit Switch.

a = Switch type 5, 6 or 7.

b = Length of connection cable 0, 1, 2, 3, 4, 5, 6, 7, 8 or 9.

c = Type of contact 1, 2 or 3.

x = Options not affecting the product safety.

13. **Schedule of Limitations:**

1. The switch shall be used within its operating range and ratings according to the manufacturer's documents and markings.
2. The switch must be installed inside a housing meeting the requirements for an approved type of protection which is suitable for the intended end use application. The housing must also permit installation with the applicable Division 2 or Zone 1 wiring methods in accordance with the National Electrical Code, NFPA 70.
3. The switch conductors or cable must be protected against tensile load and torsion.
4. The switch is rated for a service temperature range of -60°C to +100°C (depending on conductors used).

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.

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
26 th October 1995	Original Issue.
19 th May 2020	<u>Supplement 1:</u> Report Reference: PR455878 dated 19 th May 2020. Description of the Change: Model code, product name and drawing changes to match the existing product specification. Zones ratings added. Certificate updated to the new format.

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