

1 EU-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 2014/34/EU

3 EU-Type Examination Certificate No: FM17ATEX0046X

4 Equipment or protective system: WHA-BLT Series BULLET® WirelessHART® Adapter
(Type Reference and Name)

5 Name of Applicant: Pepperl+Fuchs AG

6 Address of Applicant: Lilienthalstrasse 200,
68307 Mannheim,
Germany

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3062160 dated 11th August 2017

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-11:2012 and EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



WHA-BLT-F9D0-N-A0-Z0-Ex1. BULLET® WirelessHART® Adaptor.

II 1 G Ex ia IIC T6...T5 Ga T5 for Ta = -40°C to +85°C; T6 for Ta = -40°C to +75°C

II 1 D Ex ia IIIC T95°C Da Ta = -40°C to +85°C

Damien Mc Ardle

Damien Mc Ardle
Certification Manager, FM Approvals Europe Ltd.

Issue date: 25th June 2020

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

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SCHEDULE

to EU-Type Examination Certificate No. FM17ATEX0046X

12 The marking of the equipment or protective system shall include (continued):

WHA-BLT-F9D0-N-A0-Z1-1. BULLET® WirelessHART® Adaptor.

II 2 G Ex db IIC T6...T5 Gb
T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C
II 2 D Ex tb IIIC T95°C Da Ta = -40°C to +85°C

13 **Description of Equipment or Protective System:**

The Model WHA-BLT-F9D0 Series BULLET® WirelessHART® Adaptor is intended to be installed into a 4-20 mA current loop with electrical equipment using HART communications. The HART electrical signals are converted and delivered as wireless transmission. The electronics, except for the antenna board, are completely encapsulated and located inside of a painted metallic cylindrical housing with a polymeric dome cover. The antenna board protrudes through the encapsulation and is located under the polymeric dome cover. The bottom side of the housing is sealed with potting material where pig-tail wires protrude through the potting for installation. The housing also contains threads for installing into a cable gland or terminal / junction facility.

Operation Temperature Ranges:

The ambient operating temperature range of the BULLET® WirelessHART® Adaptor is -40°C to 85°C. A lower ambient temperature range of -40°C to +75°C is specified for Temperature Class T6.

Electrical data:

The BULLET® WirelessHART® Adaptor has the following electrical ratings:

In type of protection intrinsic safety, Energy limitation parameters:

Ui = 30V, Ii = 120mA, Pi = 0.9W, Ci = 0, Li = 595.96µH.

All other protection techniques, the electronic connection has the following values:

7-32 V and 4-25 mA

WHA-BLT-F9D0-N-A0-Z0-Ex1. BULLET® WirelessHART® Adaptor.

WHA-BLT-F9D0-N-A0-Z1-1. BULLET® WirelessHART® Adaptor.

14 **Specific Conditions of Use:**

For WHA-BLT-F9D0-N-A0-Z0-Ex1. BULLET® WirelessHART® Adaptor.

1. For Zone 0 installation only, the equipment contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact and friction.

For WHA-BLT-F9D0-N-A0-Z1-1. BULLET® WirelessHART® Adaptor.

1. The flying leads of the apparatus shall be suitably protected against mechanical damage and terminated within a suitable ATEX Certified Ex d or Ex e terminal or junction facility.
2. The Ex db IIC configuration requires the use of an ATEX Certified cable seal, suitable for the location and conditions of use, installed at the apparatus and prior to the terminal or junction facility.

15 **Essential Health and Safety Requirements:**

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SCHEDULE

to EU-Type Examination Certificate No. FM17ATEX0046X

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
16 th August 2017	Original Issue.
06 th March 2019	<u>Supplement 1:</u> Description of the Change: Certificate transferred from FM Approvals Ltd., notified body No. 1725, to FM Approvals Europe Ltd., notified body No.2809.
25 th June 2020	<u>Supplement 2:</u> Reference Report: RR223382 Dated 24 th June 2020. Description of the Change: Company name changed from Pepperl+Fuchs GmbH. Alternate hardner examined in Project 3048909 and accepted. Minor editorial changes made to documentation that do not effect safety.

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