



Translation

EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 16 ATEX E 086 X**

Product: **Microswitch M12 type AS1-A7-***** and type AS1-L7-*******

Manufacturer: **Exepd GmbH**

Address: **i_Park Tauberfranken 23, 97922 Lauda-Königshofen, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 17.2060 EU.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-1:2014 Flameproof enclosure "d"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex db IIC T6 Gb**

DEKRA EXAM GmbH
Bochum, 2017-04-07

Signed: Jörg Koch

Certifier

Signed: Dr Michael Wittler

Approver

13 **Appendix**

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15 **Product description**

15.1 **Subject and type**

Microswitch M12
Type AS1-A7-***** with single core connection and
Type AS1-L7-***** with cable connection

The * character in the type key are without influence on the explosion protection.

15.2 **Description**

The microswitch consists of an electrical switching element in a housing with the type of protection flameproof enclosure "d". The electrical connection is made by means of cast-in single core or cable.

The microswitch is suitable in accordance with the special conditions described in section 7, especially for mechanical protection, for the use in potentially explosive atmospheres.

15.3 **Parameters**

Rated switching voltage	AC	250	V
Rated switching current / Utilization category		5	A / AC-12
or		4	A / AC-12
or		1	A / AC-13/15
Rated switching voltage	DC	24	V
Rated switching current / Utilization category		5	A / DC-12
or		4	A / DC-12
or		0.6	A / DC-13
Rated cross section	3-wire	0.5	mm ²
Ambient temperature range			
Up to 4 A		-20 °C up to +60 °C	
Above 4 A up to 5 A		-20 °C up to +40 °C	
Max switching frequency		5 switches per second	
Mechanical life		200000 switches	

16 **Report Number**

BVS PP 17.2060 EU, as of 2017-04-07

17 **Special Conditions for Use**

The microswitch M12 type AS1-A7 - ***** with single core connection must be installed and connected completely in a housing or in a wall of a housing of a type of protection class described in EN 60079-0 section 1. When installed in a wall of this housing, the operator must be protected against mechanical hazards, e.g. by means of a suitable housing part, a protective collar or a pre-arranged actuating element suitable according to the requirements of EN 60079-0.

The microswitch M12 type AS1-L7 - ***** with cable connection must be completely protected from mechanical hazards and daylight protected according to the requirements of EN 60079-0. When installed in a housing wall, the operator must be protected against mechanical hazards, e.g. by means of a suitable housing part, a protective collar or a pre-arranged actuating element suitable according to the requirements of EN 60079-0.

18 **Essential Health and Safety Requirements**

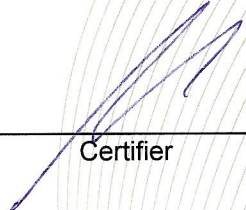
The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

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
Bochum, dated 2017-04-07
BVS-Ld/Nu A 20120376



Certifier



Approver