



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx ExTC 20.0002X**

Page 1 of 5

Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2021-09-09)

Issue 0 (2020-03-25)

Date of Issue: 2022-05-05

Applicant: **ARGO-HYTOS s.r.o.**
Delnická 1306
543 01
Vrchlabí
Czech Republic

Equipment: **Explosion Protected Solenoid EX18 046 XXXX**

Optional accessory:

Type of Protection: **Encapsulation 'm', Increased Safety 'e' and Protection by enclosure 't'**

Marking:

AC Version	DC Version
Ex mb I Mb	Ex e mb I Mb
Ex mb IIC T4, T5, T6 Gb	Ex e mb IIC T4, T5, T6 Gb
Ex mb IIIC T135°C, T100°C, T85°C Db	Ex tb IIIC T135°C, T100°C, T85°C Db

Note: Refer to Annex for ambient temperature ranges

Approved for issue on behalf of the IECEx
Certification Body:

James Bes

Position:

Certification Authority

Signature:
(for printed version)

Date:
(for printed version)

2022-05-05

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Ex Testing and Certification Pty Ltd
1/30 Kennington Drive
Tomago NSW 2322
Australia



TESTING & CERTIFICATION



IECEX Certificate of Conformity

Certificate No.: **IECEX ExTC 20.0002X**

Page 2 of 5

Date of issue: 2022-05-05

Issue No: 2

Manufacturer: **Schienle Magnettechnik + Elektronik GmbH**
In Oberwiesen 3
88682 Salem-Neufrach
Germany

Manufacturing locations: **Schienle Magnettechnik + Elektronik GmbH**
In Oberwiesen 3
88682 Salem-Neufrach
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/EPS/ExTR14.0049/01](#)

Quality Assessment Report:

[DE/EPS/QAR19.0010/04](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX ExTC 20.0002X**

Page 3 of 5

Date of issue: 2022-05-05

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Explosion protected solenoid type EX18 046 XXXX is an electromagnetic coil system which is used in the industry for linear or proportional switching of a valve or mechanical devices. The electrical energy is transformed via electromagnetic energy to a mechanical force. That linear movement is used for switching valves or other similar designed systems.

Electrical data:

Rated voltage	12V - 110V DC
	110V - 230V AC
Rated power:	10W - 18W

Refer to Annex for further information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for Details



IECEX Certificate of Conformity

Certificate No.: **IECEX ExTC 20.0002X**

Page 4 of 5

Date of issue: 2022-05-05

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Refer to Annex for Details



IECEX Certificate of Conformity

Certificate No.: **IECEX ExTC 20.0002X**

Page 5 of 5

Date of issue: 2022-05-05

Issue No: 2

Additional information:

Job 22036

Annex:

[IECEX ExTC 20.0002X-2 Annex Final.pdf](#)

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ExTC 20.0002X

Issue No.:

2

Description:

This product was previously certified under IECEX EPS 14.0064X.

Specific Conditions of Use pertaining to Issue 0 of this Certificate:

1. The ambient temperature ranges are:
 - 40°C ≤ Tamb ≤ +70°C at temperature class T4 and power P_N=10W
 - 40°C ≤ Tamb ≤ +55°C at temperature class T5 and power P_N=10W
 - 40°C ≤ Tamb ≤ +45°C at temperature class T6 and power P_N=10W
 - 40°C ≤ Tamb ≤ +60°C at temperature class T4 and power P_N=18W
2. The temperature of the process fluid is to be considered when determining the ambient temperature range and T class of the equipment. The process fluid is not to exceed 70°C.
3. The equipment is to be protected by a I_N≤3xI_G slow blow fuse as directed by the user manual.

Drawing list pertaining to Issue 0 of this Certificate:

Manufacturer's Documents

Title:	Drawing No.:	Pages	Rev. Level:	Date:
Schutzgehäuse A (Housing A)	01 EX01 020x 001	1	00	2013-07-31
Gehäuse (Casing)	74 0102 046B 001	1	00	2014-06-13
Befestigungsmutter (Fixing Nut)	74 0102 046B 006	1	00	2014-06-13
Jochscheibe (Yoke Disk)	74 0102 046B 029	1	00	2014-06-13
Jochring (Yoke)	74 0102 046B 029B	1	00	2014-06-17
Spulenkörper (Bobbins)	74 1102 046B 007B	1	00	2014-06-17
Spulenkörper (Bobbins)	74 1102 046B 007	1	00	2014-06-13

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ExTC 20.0002X

Issue No.:

2

Title:	Drawing No.:	Pages	Rev. Level:	Date:
Technical Description Explosion protected solenoid Typ : xx EX18 046x yzyz	T 30 / 2014	8	-	2014-04-29
Steckergehäuse cable housing	xx EX18 046B 001	1	00	2014-02-19
Steckergehäuse cable housing	xx EX18 046C 001	1	00	2014-02-19
Erregersystem Explosion-proof coil system	74 EX18 046x yzyz	1	00	2014-06-03
Explosion-proof single stroke solenoid Operating instructions	B 32 / 2014	6	-	Mar 2020
Erregersystem excitation system	EX18 046 X X X X	3	03	2020-02-27

Variations permitted by Issue 1 of this certificate:

This issue of the certificate is to replace the expired QAR which has expired with DE/EPS/QAR19.0010/03.

Specific Conditions of Use pertaining to Issue 1 of this certificate:

No variations from previous issues.

Drawings Associated with the Issue 1 of this Certificate:

No changing of the drawings from the previous issue.

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ExTC 20.0002X

Issue No.:

2

Variations permitted by Issue 2 of this certificate:

This issue of the certificate is to transfer the applicant from Custom Fluidpower Pty Ltd to ARGO-HYTOS s.r.o. as well as to update the QAR DE/EPS/QAR19.0010/04 to its current issue.

Specific Conditions of Use pertaining to Issue 2 of this certificate:

No variations from previous issues.

Drawing list pertaining to Issue 2 of this Certificate:

No changes to the drawings from the previous issues.