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 BAS 16.0125X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2019-07-16) Issue 0 (2017-05-24)
Date of Issue:	2023-07-17		
Applicant:	**ACD LLC** 2321 S. Pullman Street, Santa Ana CA, 92705 **United States of America**		
Equipment:	**Model X70101 and Model X70202 Electrical Feed-Throughs**		
Optional accessory:			
Type of Protection:	**Flameproof**		
Marking:	**Ex db IIB T4 Gb (Tamb -40°C to +65°C) or Ex db IIC T4 Gb (Tamb -40°C to +65°C) *** ***Model X70101-002 only**		

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature:
(for printed version)

Date:
(for printed version)

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:

SGS UK Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom

IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 16.0125X**

Date of issue: 2023-07-17

Manufacturer: **ACD LLC**
2321 S. Pullman Street,
Santa Ana CA, 92705
United States of America

Manufacturing locations: **ACD LLC**
2321 S. Pullman Street,
Santa Ana CA, 92705
United States of America

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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-1:2014 Edition:7.0 — Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

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 Reports:

GB/BAS/ExTR16.0343/00 GB/BAS/ExTR17.0361/00 GB/BAS/ExTR23.0024/00

Quality Assessment Report:

GB/BAS/QAR17.0009/04

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The electrical feed-through are cylindrical enclosures, with square flanged ends, manufactured in 304L or 316L stainless steel with 4 conductors passing through glass/metal seals at each end.

The central chamber may have up to 2 off M16 threaded entries, to facilitate the mounting of separately certified leakage/pressure monitoring devices.

The units are produced in two sizes with three variants:

1. The Model X70101-001 690Vac Rated up to 90A suitable for IIB gas groups
2. The Model X70101-002 690Vac Rated up to 90A suitable for IIC gas groups
3. The Model X70202-001 690Vac Rated up to 250A suitable for IIB gas groups

Model X70101-002 690Vac and rated up to 90A manufactured in 316L Stainless Steel only can be used in IIC gas group environments and be suitably marked as detailed.

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The connections to the conductor pins at each end of the feed-though shall be either located in a non-hazardous area/zone or be protected from ignition hazards by other means (separately certified).
2. The T4 Temperature Classification applies to the enclosure and internal surfaces only.
An increased Temperature Classification of T3 (or greater) may be applicable where the electrical contacts can have access to external gas atmospheres (i.e. if the associated electrical contact pins at each end connector utilise other specific protection concepts [Ex e etc])

3. The connection flanges at each end of the conductor feedthroughs unit are not flameproof joints (Ex d) i.e. the joints do not meet the minimum flamepath length requirements of IEC 60079-1.
4. The integral marked earth/ground conductor is electrically insulated from the stainless steel enclosure body.
5. There is no dedicated external earth bonding connection on the cable feed through. External earth bonding may be achieved by means of the connection flange fixings. Any such external earth bonding connection shall include lock washers etc. to avoid loosening by pulling/ twisting.
6. Up to two threaded M16 entries may be provided for the fitting of suitably certified flameproof pressure/leakage monitoring devices. Any such interface device shall maintain the flameproof integrity of the enclosure (i.e. meet the minimum flamepath requirements with the mating thread, not significantly increase the enclosure volume and have a withstand/sealing pressure greater than 30bar without leakage). Any unused entry holes are to be sealed with suitable. Ex d ATEX equipment certified stopping plugs.
7. The 250A rated units are intended for use with three phase loads (i.e. <150A/phase)
8. Eight M10 threaded holes are provided for mounting the bushings via the provided flanges. The mounting fasteners shall be provided in resilient metals (e.g. stainless steel) and be capable of being self-supporting whist withstanding a 7J impact.
9. These conductor feedthroughs are considered to be closed units. Repairs to the enclosure are not permitted. Repairs to damaged/ defective units shall only be performed by the original manufacturer.
10. When model X70101-002 is used in IIC gas group environments the housing must be manufactured from 316L Stainless Steel and suitably marked

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 2.1

To assess the construction of the Models X70101 & X70202 against the standards IEC 60079-0:2017 Edition 7.0 and EN IEC 60079-0:2018

Variation 2.2

To permit the introduction of using Model X70101 only in a IIC Gas Group environment.

ExTR: **GB/BAS/ExTR23.0024/00**	File Reference: **22/0603**