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 ETL 23.0033X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2023-10-20

Applicant: **Compressor Products International LLC**
4410 Greenbriar Dr, Stafford, TX 77477
United States of America

Equipment: **Reed Switch Model- Proflo Cycle Switch**

Optional accessory:

Type of Protection: **Encapsulation 'mb'**

Marking: Ex mb IIC T4 Gb

-40°C ≤ Ta ≤ +60°C

IECEx ETL 23.0033X

Approved for issue on behalf of the IECEx Certification Body: **Kevin J. Wolf**

Position: **Certification Officer**

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:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

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Date of issue: 2023-10-20 Issue No: 0

Manufacturer: **Compressor Products International LLC**
4410 Greenbriar Dr, Stafford, TX 77477
United States of America

Manufacturing locations:

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

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:

US/ETL/ExTR23.0024/00

Quality Assessment Report:

US/ETL/QAR23.0008/00

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

Proflo Cycle Switch is a stand-alone device which contains a sensing reciprocating magnetic rod actuated by lubricant flow cycles powered by 250VDC/120VAC, 0.5A. This device relies purely on encapsulation “mb” protection.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Maximum overload protection of 0.5A must be provided to the circuits by the installer. When a fuse is used as the overload protection device, the fuse must be rated no more than 0.29A. The overload protection device must be rated for short circuit current matching that of the supply circuit.
2. The conductor connected to the external terminal must be Copper (Cu).
3. The flying leads must be protected by IECEx certified cable entry devices, conduit, terminal blocks and Enclosures with an IP54 or better ingress protection rating. Any un-used conductors shall be terminated in terminals.
4. The external earth / ground conductor must be suitably secured to the equipment grounding terminal to ensure no loosening or twisting via such means as saddle/spring washer, crimp lug, or equivalent means.

Annex:

105400238DAL-002-SFT-IECEx-OP-19f - Annex for IECEx Certificate of Conformity_1.pdf

Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ETL 23.0033X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
PROFLO CYCLE SWTICH	65004000000PFCS-ASD	A	08/03/2023
MAGNET ASSEMBLY	65004000095775X-ASD	A	07/14/2023
Instruction Manual proflo cycle switch	650150000096033-ASD	B	October 2023
Assy Dwg TOP PCB CPI Cycle Switch	PCB022-RA-ASSY-TOP	A	08/03/2023
Assy Dwg BOT PCB CPI Cycle Switch	PCB022-RA-ASSY-BOT	A	08/03/2023
Bill of Materials	15-1585-RA	A	08/03/2023
Fab Dwg CPI Cycle Switch	PCB022-RA-FAB	A	08/03/2023
CPI Cycle Switch	PCB022-RA-SCH	A	08/03/2023

Required Manufacturer Routine Testing		
Test	Title/Description of Test	Standard and Clause
1	Each piece of “m” equipment shall be subjected to a visual inspection, where no damage to the encapsulation shall be evident.	IEC 60079-18 Clause 9.1
2	Each piece of equipment shall undergo a dielectric strength test at 2100VDC for at least 1s.	IEC 60079-18 Clause 9.2