IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx LCIE 18.0019X

Issue No: 0

Certificate history:
Issue No. 0 (2018-08-07)

Status: **Current**

Date of Issue: **2018-08-07**

Applicant: **ASCO SAS**
53, rue de la Beauce
28110 Lucé
France

Equipment: **Fieldbus electronic - Type : G3******0*****

Optional accessory:

Type of Protection: **Ex ec**

Marking:

Ex ec IIC T4 Gc

(Refer to attachment for full marking)

Approved for issue on behalf of the IECEx Certification Body: Julien Gauthier

Position: Certification Officer

Signature:
(for printed version)

Date: 2018-08-07

LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES
S.A.S au capital de 15.745.984 €
RCS Nanterre B 408 363 174
33 avenue du Général Leclerc
F - 92266 FONTENAY AUX ROSES

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 the Official IECEx Website.

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France

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Manufacturer: **ASCO SAS**
53, rue de la Beauce
28110 Lucé
France

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*This Certificate **does not** indicate compliance with electrical 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:

FR/LCIE/ExTR18.0037/00

Quality Assessment Report:

FR/LCI/QAR07.0006/10

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Fieldbus electronic, type G3******0***, is an electronic control system intended to allow Fieldbus connection to a pneumatic manifold, type *501AV****0**** (IECEx LCIE 18.0016X) or type *502AV****0*** (IECEx LCIE 18.0017X). Several communication modules (also called nodes) using different protocols, and different I/O (Inputs / Outputs) modules are available. On each module, a small interface using a LCD display and push buttons allows to setup the product manually.

A complete type G3******0*** product is assembled with one node and zero to eight I/O modules. The node is connected to a power supply by a standard connector. One or two standard connector(s) is/are used for Fieldbus communication. A status information is provided by LEDs.

I/O modules are connected to the node by using a jumper clip, including electrical connectors; screws being used for fixing the jumper clip on the electronic modules. The jumper clip is used also to connect two I/O modules. An end module is used to close the assembly. A driver module is used to connect the node to the pneumatic manifold, using also the same jumper clip.

The electrical connection to the pneumatic manifold is made by a ribbon cable and protected by the housing of the product, this one being assembled on the pneumatic manifold by mean of screws. I/O modules use standard connectors or terminal blocks to connect inputs and outputs.

In order to extend the size of the pneumatic manifold, a sub-bus module is intended to be used to connect an additional assembly, type G3******0***.

Alternately, an assembly, type G3******0***, can be used without any pneumatic manifold, for electrical Inputs and/or Outputs purpose only.

(Refer to attachment for range details)

Instructions :

Installation and Maintenance Instructions, G3, Ref. 531324-001.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1 standard.
- For final installation, the fieldbus electronic must be connected in compliance with IEC 60079-14 standard requirements, providing and maintaining an enclosure with minimum ingress protection of IP 54.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
- The equipment shall be installed according to the instruction manual provided by the manufacturer.

Annex:

IECEx LCIE 18.0019X - Issue 00 - Annex 01 - ASCO SAS.pdf

Annex 01 to Certificate
IECEx LCIE 18.0019X issue 00

MARKING

ASCO™ or NUMATICS™ or ASCO-NUMATICS™
Address : …
Type : G3******0*** (1)
Serial number : …
Year of construction : …
Ex ec IIC T4 Gc
IECEx LCIE 18.0019X

-10°C ≤ T_{amb} ≤ +50°C
U = 24 V DC ; P = 4 to 27 W

(1): completed with type designation.

RANGE DETAILS

G3 *** ** * 0 ***

Series
G3 = G3 Electronics

Electronics Protocol
CO1 = CANopen
DL1 = Device Logix
DN1 = DeviceNet
EC1 = EtherCAT
ED1 = EtherNet/IP DLR
EM1 = Ethernet Modbus - TCP
EP1 = EtherNet/IP
PL1 = Ethernet POWERLINK
PT1 = PROFIBUS-DP
PN1 = PROFINET
DS2 = Sub-Bus Valve Manifold
DS3 = Sub-Bus I/O Assembly
CC1 = CC-Link IE

Number Of I/O Modules
00 = 0
01 = 1
02 = 2
03 = 3
04 = 4
05 = 5
06 = 6
07 = 7
08 = 8

Options
71W = Prepared for Ex Approvals
D45 = 71W + DRM
D46 = 71W + E23
F20 = 71W + E23 + DRM

Modification
0 = Initial Release

Left Mounting
D = w/ Sub-Bus Out
R = w/ Terminating Resistor

Accessories mounted on the fieldbus electronic :
Sub-bus out module
Sub-bus in module
Terminator module
Jumper clip
Right hand mounting cover

RATINGS

Supply voltage : 24 V DC
Power : 4 to 27 W

ROUTINE TESTS

None.

APPARATUS OVERVIEW

Figure 1: Fieldbus electronic G3

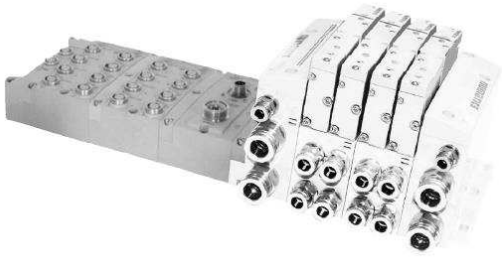

Figure 2: Fieldbus electronic G3 with pneumatic manifold, type *502AV****0***.