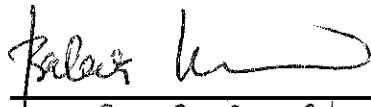




IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx CES 11.0032	Issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2012-02-08	Page 1 of 3	
Applicant:	CORTEM S.p.A. Via Aquileia 10 I - 34070 Villesse (GO) Italy		
Electrical Apparatus:	Command, control and signalling units series SA ...		
Optional accessory:			
Type of Protection:	Increased safety 'e'; Flameproof enclosures 'd'		
Marking:	Ex de IIC T5 Gb		
Approved for issue on behalf of the IECEx Certification Body:	Mirko Balaz		
Position:	Head of IECEx CB		
Signature: (for printed version)			
Date:	<u>08-02-2012</u>		

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:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
 Via Rubattino 54
 20134 Milano
 Italy

CESI

CESI S.p.A.
 Testing & Certification Division




IECEx Certificate of Conformity

Certificate No.: IECEx CES 11.0032

Date of Issue: 2012-02-08

Issue No.: 0

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Manufacturer: **CORTEM S.p.A.**
Via Aquileia 10
I - 34070 Villesse (GO)
Italy

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 electrical 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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:
IT/CES/ExTR11.0033/00

Quality Assessment Report:

IT/CES/QAR06.0001/06



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Command, control and signalling units series SA, assembled in enclosures made in aluminium or in stainless steel or in polyester resin. It is designed to type of protection Increased Safety "e" and can be equipped with the following certified components:

- pilot LED type M-0612 and M-0487
- Contact blocks type M-0530 and M-0531
- Command and signalling actuators series: M-0603; M-0604; M-0605
- Terminal blocks Ex-e

The cover is fixed to the body with 4 or 6 anti loosening screw. Between body and cover a NBR gasket or silicon gasket guarantee the protection degree IP65 (IP 66 only for stainless steel boxes). The walls of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents. The cable glands or plugs, with separate IECEx certificate, are mounted using locknut and gasket. Each enclosure is provided with internal and external earth screw or bolt (polyester boxes without external earth screw). Each conductor is provided with terminal lugs.

For further information see Annex.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

CESI

Prot: B2007084

Annex to certificate: IECEx CES 11.0032 Issue No.:0 of 2012-02-08
Applicant: COR.TEM S.p.A., Via Aquileia 10,
I - 34070 Villesse (GO), Italy
Electrical Apparatus: Command, control and signalling units series SA ...

Model Identification:

SA* -

	<i>Code of the series:</i> SA: standard boxes. SAG: boxes with walls 7mm thickness.
	<i>Size of boxes:</i> see tables 1 .
	Material and number of gland plates blank: aluminium alloy boxes. /P: polyester resin boxes. SS: stainless steel boxes without gland plates. SSC: stainless steel boxes with locking devices on cover and without gland plates SSF1, SSF2, SSF3, SSF4: stainless steel boxes with 1, 2, 3 or 4 gland plates. SSFC1, SSFC2, SSFC3, SSFC4: stainless steel boxes with locking devices on cover and 1, 2, 3 or 4 gland plates.

Electrical characteristics:

Max. rated voltage: 600 Vac/dc
Max. rated current: 16 A
Rated frequency 50 / 60 Hz

The ratings specified are maximum values; actual values will be subject to the electrical equipment/component used from case to case. Depending on the system conditions, the mode of operation, the utilisation category, etc., the manufacturer will define ratings which will be within the range of these limiting values and will comply with the relevant standards.

The type and number of terminals which can be installed in the various enclosures is indicated in detail, together with the maximum admissible currents in the manufacturer's documentation. When selecting the permitted continuous current for cross section, the maximum permitted electrical current for the terminals and the connecting cable or conductor should be taken into consideration.

Pilot Lights (LED) type M-0612 and contact blocks type M-0530, M-0531 terminals: section 2.5 mm²

Degree of protection (IEC 60529) IP 65
IP 66 only for stainless steel boxes

Ambient temperature range: From -20°C to +55°C

Warning label:

Do not open when energized.
Use cables suitable for a minimum temperature of 90°C.



IECEx Certificate of Conformity

CESI

Prot: B2007084

Annex to certificate: IECEx CES 11.0032 Issue No.:0 of 2012-02-08
Applicant: COR.TEM S.p.A., Via Aquileia 10,
I - 34070 Villesse (GO), Italy
Electrical Apparatus: Command, control and signalling units series SA ...

Installation conditions:

Accessories used for the cable entries and for the unused holes shall have degree of protection IP 65 (IP66 for stainless steel boxes) and shall be certificate according to the standards IEC 60079-0 and IEC 60079-7. When selecting the permitted continuous current for cross section, the maximum permitted electrical current for the terminals and the connecting cable or conductor should be taken into consideration.

Table 1: list of types

Aluminium boxes		Aluminium boxes reinforced (with walls 7mm thickness)		Polyester resin boxes	
SA111108		SAG111108		SA111108/P	
SA171108		SAG171108		SA171108/P	
SA141410		SAG141410		SA141410/P	
SA301410		SAG301410		SA301410/P	
SA302310		SAG302310		SA302310/P	
SA303218		SAG303218		SA303218/P	
-		SAG623018		SA623018/P	
Stainless steel boxes with cover fixed by screws and hinges as optional					
Without gland plate	With 1 gland plate	With 2 gland plate	With 3 gland plate	With 4 gland plate	
SA111108SS	-	-	-	-	
SA171108SS	-	-	-	-	
SA141410SS	-	-	-	-	
SA301410SS	-	-	-	-	
SA302310SS	-	-	-	-	
SA303218SS	SA303218SSF1	SA303218SSF2	SA303218SSF3	SA303218SSF4	
SA473018SS	SA473018SSF1	SA473018SSF2	SA473018SSF3	SA473018SSF4	
SA623018SS	SA623018SSF1	SA623018SSF2	SA623018SSF3	SA623018SSF4	
Stainless steel boxes with cover fixed by locking device and hinges					
Without gland plate	With 1 gland plate	With 2 gland plate	With 3 gland plate	With 4 gland plate	
SA303218SSC	SA303218SSCF1	SA303218SSCF2	SA303218SSCF3	SA303218SSCF4	
SA473018SSC	SA473018SSCF1	SA473018SSCF2	SA473018SSCF3	SA473018SSCF4	
SA623018SSC	SA623018SSCF1	SA623018SSCF2	SA623018SSCF3	SA623018SSCF4	