SA, SAG



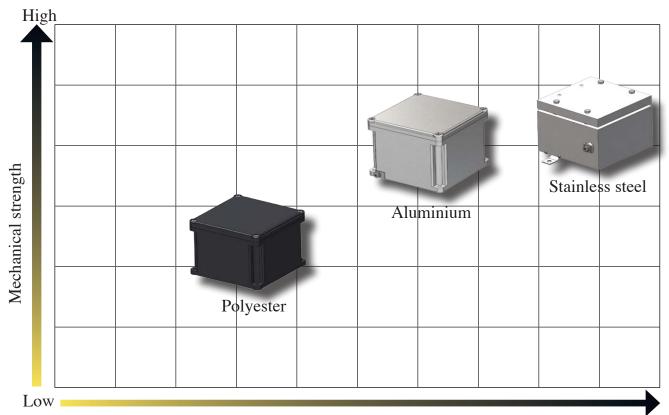
SA series junction boxes: criteria for choosing the right product

When it comes to deciding on an increased safety enclosure, there is a whole series of essential data to be taken into account if you are to make the right choice: the mechanical strength of the materials, corrosion resistance, the IP protection rating and IK impact protection rating in the case of enclosures for watertight/industrial use.

Mechanical strength

Properties	Unit	Stainless steel	Aluminium	Polyester
Density	g/cm ³	8.0	2.65	1.7
Tensile strength	MPa	500-700	80-110	130
Elongation	%	60-40	4-10	2
Modulus of elasticity	GPa	193	79	11
Yield strength	MPa	≥ 200	80-165	-
Coeff. of thermal expansion (20-100°C)	10 ⁻⁶ K ⁻¹	16	21	-
Resistivity	Ω m	7.5x10 ⁻⁷	4.8x10 ⁻⁸	-
Electrical conductivity	$\Omega^{\text{-1}}\text{m}^{\text{-1}}$	1.33x10 ⁶	2.08x107	-

The graph below gives an overview of what use the various materials are suitable for based on the mechanical stress and harshness of the environmental conditions likely to be encountered.



Corrosion resistance (suitability for outdoor use)

IP PROTECTION RATINGS (IEC 529, EN 60529-4, CEI 70-1 ed. 11/92)

The table gives protection ratings in accordance with standard CEI 70-1 ed. 11/92. Ratings are identified by the acronym IP followed by 2 digits, to which 2 letters may be added, indicating the degree to which persons are protected against access or other properties There is some variation in the application of ratings 7 and 8 relating to the ingress of liquids, with these ratings not always meaning that the item is suitable for lower levels (whereas IP rating x4 also covers the lower levels).

IMPACT PROTECTION RATINGS

This classification shows the acceptable level of strength, when evaluating a product's safety, and is mainly employed in relation to testing on electromechanical products.

1ST DIGIT 2ND DIGIT PROTECTION AGAINST EXTERNAL PROTECTION AGAINST SOLID OBJECTS PROTECTION AGAINST MOISTURE MECHANICAL IMPACT Not protected Not protected Not protected 0.25 kg Protected against Protected against solid objects 5.6 cm vertically falling greater than drops of water Protected against im-50mm in **Ø** pact energy of 0.15J Ø 12 0.25 kg Protected against Protected against 14 cm solid objects rain when tilted up greater than to 15° Protected against im-2mm in Ø pact energy of 0.35J 0.25 kg Protected against Protected against 28 cm solid objects rain when tilted up greater than to 60° Protected against Ž.5mm in **Ø** impact energy of 0.7J 0.25 kg <u>Ø 1</u> Protected against Protected 40 cm solid objects against splashgreater than 1 mm ing water Protected against in Ø impact energy of 1J 0.5 kg Protected against Protected against 40 cm jets of water from dust all directions Protected against impact energy of 2J 1.7 kg Totally protected Protected against 30 cm against the ingress heavy seas of dust Protected against impact energy of 5J5 kg ADDITIONAL LETTER** Protected against 20 cm Protected against access with the back the effects of imof the hand Protected against mersion impact energy of 10J **B** Protected against access with a finger 5 kg Protected against Protected against access with a tool 40 cm the effects of con-Protected against tinuous immersion Protected against access with a wire impact energy of 20J

OPTIONAL LETTER

- High-voltage device
- M Tested against the harmful effects of water ingress with the equipment running
- **S** Tested against the harmful effects of water ingress with the equipment not running
- WSuitable for use in specified atmospheric conditions

- * As per IEC EN 50102: 1996-05; IEC EN 60078-2-7-5: 1998-09.
- * Optional letter describing protection against access by persons. Only used if protection against access to hazardous parts is greater than that indicated by the first digit, or if only protection against access to hazardous parts is given and an X is used in place of the first digit.



SA...SAG series junction boxes are made from aluminium alloy and given an electrostatically applied epoxy coating containing stainless steel particles that is then baked at 200°C. This treatment ensures good UV as well as thermal stability, providing mechanical impact resistance and excellent resistance when exposed either to salt mist or to marine and other damp environments. SA and SAG series junction boxes are usually installed in industrial plants where there is a risk of explosion and fire, classified as Zone 1, 2, 21, 22; they are mainly used as junction boxes and/or for routing cables to control rooms for analogue or digital signals and for control, monitoring and signalling associated with equipment such as motors, pumps...etc., or for giving physical readings such as flow rate, level, temperature, pressure, etc.... The thickness of its walls (7mm) means the SAG series is suitable for direct connection with pipes and fittings featuring tapered threads. Cortem's custom solutions offer ATEX- and IECEx-certified components and application solutions devised for use in explosion hazard areas. The expert Cortem team endeavours to meet all customer requests.

Cortem Group labels its products with a non-removable adhesive label measuring 2 cm in diameter featuring a hologram with the inscription "TESTED ORIGINAL PRODUCT". It's complete with an alphanumerical code, as a safety measure against the illegal sale of imitations and fakes so that all the products are guaranteed as original. Non-compliance with the International standards entails serious risks for the environment, especially for those working daily on the plants.

TYPE AND APPLICATION

Choosing an appropriate container is a key step in the project development process, making it essential to approach the decision systematically, evaluating all variables methodically: where our equipment is being installed, the environmental conditions on site, what degree of protection it must have, what space is available and how it is due to be set up. Once you have processed all this information, you should be able to determine which product best suits the design requirements in question.

ENVIRONMENTAL CONDITIONS

The first factor to consider is what environmental conditions the equipment is going to be installed in, whether it will be indoors or outside, and what environments it is required to operate in: pharmaceutical, chemical, petrochemical, food, shipbuilding, agricultural industries...

DIMENSIONS

The size of the space available for inserting the enclosure and its components must be determined early on in the process.

Taking into account the technical aspect, product design and appearance is also important in ensuring the equipment to be installed in the enclosure is integrated seamlessly. A Cortem team of experts is on hand every day to address your questions and come up with the best solutions.

Cortem enclosures have passed:

- IP protection testing;
- IK strength testing;
- vibration and impact resistance testing;
- salt mist testing for corrosion resistance;
- heat resistance testing;
- low temperature resistance testing.

Application sectors:







plants









Fuel





Oil refineries Chemical and

Onshore petrochemical plants

Offshore plants

temperatures

Ships and shipbuilding depots

100% Cortem product



CERTIFICATION DATA FOR ENCLOSURES WITH TERMINALS

Classification: Category 2GD Group II Installation: EN 60079.14 zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust) Marking: CE 0722 🖾 II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66 CE 0722 🐼 II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66 CE 0722 🕸 II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66 **Certification: ATEX CESI 03 ATEX 333** All IEC Ex certification data can be downloaded from www.cortemgroup.com **IEC Ex** CES 13.0001 GOST R AVAILABLE CENELEC EN 60079-0: 2012, EN 60079-7: 2007, EN 60079-11: 2012, EN 60079-31: 2009, EN 60079: 1991 and EUROPEAN DIRECTIVE 94/9/EC: 1994 Standards: IEC 60079-0: 2011, IEC 60079-7: 2006, IEC 60079-11: 2011, IEC 60079-31: 2008 Ambient Temp.: See "ambient temperature range" table **IP66** Degree of protection:

CERTIFICATION DATA OF ENCLOSURES FOR CONTROL, MONITORING AND SIGNALLING UNITS

Classification: 94/9/EC Group II Category 2GD zone 21 - zone 22 (Dust) zone 1 - zone 2 (Gas) Installation: EN 60079.14 C€ 0722 ऒ II2GD - Ex de IIC T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db - IP66 Marking: **Certification: ATEX CESI 03 ATEX 115 IEC Ex CES 11.0032** All GOST R certification data can be downloaded GOST R AVAILABLE CENELEC EN 60079-0: 2012, EN 60079-7: 2007, EN 60079-11: 2012, EN 60079-31: 2009, EN Standards: 60529: 1991 and EUROPEAN DIRECTIVE 94/9/EC: 1994 IEC 60079-0: 2011-06, IEC 60079-7: 2006-07, IEC 60079-11: 2008-11, IEC 60529: 2001 With temperature class T6 and maximum -40°C +40°C Ambient Temp.: -40°C +55°C **IP66** Degree of protection:

OTHER AVAILABLE CERTIFICATES (please contact the sales department for further information)

CESI 03 ATEX 115 CERTIFICATE

Equipment: SAG series enclosures Marking Ex II 2 (1) GD Ex d e ib mb [ia Ga] IIC T4 Gb; Ex tb IIIC T80°C Db; IP66 SAG series enclosures Marking Ex II 2 (1) GD Ex e mb [ia Ga] IIC T4 Gb; Ex tb IIIC T80°C Db; IP66

Enclosures for applications with fieldbus devices



SA and SAG SERIES ENCLOSURES

Models from SA-...series (lightweight series)
Thinner walls

The body can only accommodate through holes with no threading



Models from SAG-...series (heavy-duty series)
Extra-thick walls
The body can also accommodate threaded holes



STANDARD AMBIENT TEMPERATURE RANGE FOR ENCLOSURES WITH TERMINALS

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MINIMUM TERMINAL OPERATING TEMPERATURE
-40°C +40°C	T6	T85°C	+80°C
-40°C +55°C	T5	T100°C	+100°C

Warning: please contact our sales department for other permissible ambient temperature ranges.

GENERAL MECHANICAL PROPERTIES

Body and lid: Low copper content aluminium alloy

Impact protection rating: IK10

Gasket: Acid-, hydrocarbon- and high temperature-resistant silicone, located between body and

lid

Certification label: Aluminium plate riveted onto lid Bolts and screws: Stainless steel captive variety

Earth screws: Stainless steel. On inside and outside of body complete with anti-rotation brackets

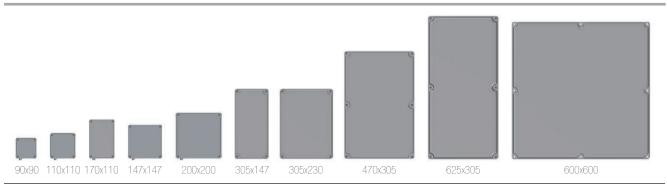
Mounting: Cast aluminium feet for M6 screw

Coating: Epoxy RAL 7035 (Light grey) for Exe or RAL 5015 (Sky blue) for Exi

Corrosion Resistance: The STANDARD of the aluminium alloy used by Cortem has passed the tests required by

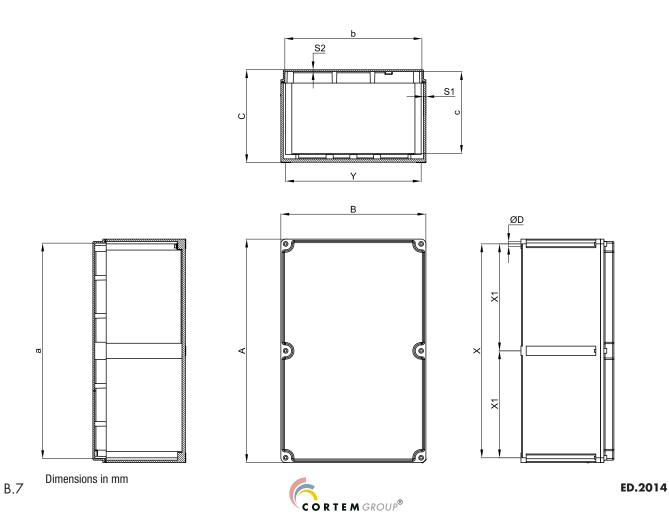
standards EN 60068-2-30 (hot/humid cycles) and EN 60068-2-11 (salt mist tests)

OVERVIEW OF SIZES



ENCLOSURE SELECTION CHART

Codice	Dimer	nsioni e	sterne		Dime	nsioni i	nterne			Fiss	aggio		Peso
	Α	В	C	а	b	C	S 1	S2	Х	Υ	X1	ØD	Kg
SA090907	90	90	73	84	84	54	3	2.5	74	74	-	6.5	0.40
SA111108	110	110	83	104	104	64	3	2.5	94	94	-	6.5	0.50
SAG111108	110	110	83	96	96	64	7	2.5	94	94	-	6.5	0.75
SA171108	170	110	83	164	104	65	3	2.5	154	94	-	6.5	0.80
SAG171108	170	110	83	156	96	65	7	2.5	154	94	-	6.5	1.55
SA141410	147	147	100	141	141	80	3	2.5	131	131	-	6.5	0.80
SAG141410	147	147	100	133	133	80	7	2.5	131	131	-	6.5	1.40
SA202012	200	200	120	192	192	98	4	3	180	180	-	6.5	1.70
SA301410	305	147	110	296	138	90	4.5	3	285	127	-	6.5	2.00
SAG301410	305	147	96	291	133	75	7	4	285	127	-	6.5	2.70
SA302310	305	230	110	296	221	90	4.5	3	285	210	-	6.5	2.80
SAG302310	305	230	100	291	216	75	7	4	285	210	-	6.5	3.40
SA302318	305	230	190	296	221	165	4.5	3	285	210	-	6.5	3.50
SAG302318	305	230	180	291	216	155	7	4	285	210	-	6.5	5.30
SA473018	475	305	195	465	295	174	5	4	450	285	225	6.5	6.50
SAG473018	475	305	195	461	294	174	7	4	450	285	225	6.5	8.90
SAG623018	625	305	195	613	293	174	6	5	605	285	302.5	6.5	11.3
SAG606018	600	600	205	584	584	177	10-13	5	580	580	290	6.5	27.0



SA, SAG... series Body drilling data

THREAD COMPARISON CHART

D Thread diameter	01	1	2	3	4	5	6	7	8
ISO 7/1 - ISO228	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Through hole	Ø17	Ø22	Ø27.5	Ø34	Ø43	Ø48.5	Ø60.5	Ø76	Ø89

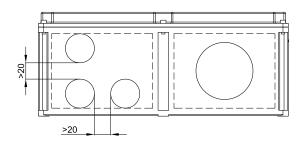
D Thread diameter	01	1	2	3	4	5	6	7	8
ISO 261/965	16x1,5	20x1.5	25x1.5	32x1.5	40x1.5	50x1.5	63x1.5	75x1.5	90x1.5
Through hole	Ø17	Ø20.5	Ø25.5	Ø32.5	Ø40.5	Ø50.5	Ø63.5	Ø75.5	Ø85.5

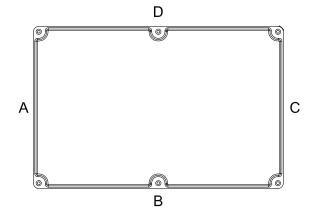
D Thread diameter	01	1	2	3	4	5	6	7	8
ANSI B.20.1 NPSM	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Through hole	Ø17.5	Ø22	Ø27.5	Ø34	Ø43	Ø48.5	Ø60.5	Ø76	Ø89

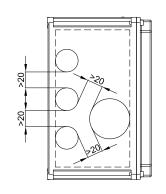


As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.

								HOI	E DI	RILLII	NG IN BOI	ΟY								
TYPE OF				Sides	A an	d C								Sides	Ban	d D				
ENCLOSURE	Drilling	N	IAXII	/IUM	QUAN	ITITY	PER	HOL	ETYF	E	Drilling	N	IAXII	/IUM	QUAN	ITITY	PER	HOLI	ETYP	Έ
	area mm	mm 01 1 2 3 4 5 6 7 8 48x45 1 1 1 - </th <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th>											1	2	3	4	5	6	7	8
SA090907	48x45	1	1	1	-	-	-	-	-	-	48x45				Sq	uare l	хос			
SA/SAG111108	58x55	- - - - - - - - - - 									58x55				Sq	uare l	хос			
SA/SAG171108	68x55	3	2	1	1	-	-	-	-	-	128x55	5	5	3	2	2	2	-	-	-
SA/SAG141410	100x65	6	6	3	2	1	-	-	-	-	100x65				Sq	uare l	OOX			
SA202012	145x75	8	7	6	3	2	1	-	-	-	145x75				Sq	uare l	00X			
SA/SAG301410	100x65	6	6	3	2	1	1	-	-	-	255x65	14	12	9	5	4	3	-	-	-
SA/SAG302310	180x65	10	10	7	3	3	2	-	-	-	255x65	14	12	9	5	4	3	-	-	-
SA/SAG302318	180x140	18	18	12	9	6	4	2	1	1	258x140	24	24	18	14	8	6	3	2	2
SA/SAG473018	258x140	24	24	18	14	8	8	3	2	1	380x140	36	36	24	18	12	12	4	4	2
SAG623018	250x130	24	24	18	14	8	8	3	3	2	525x130	48	48	36	28	16	12	6	4	4
SAG606018	420x130	40	40	30	25	12	12	4	4	4	420x130	35	35	26	16	10	10	4	4	4









These enclosures are customized based on size, on the number of terminals or cables they are due to accommodate, or taking into account the number of cable entries and cabling requirements inside a system. Hence we can produce tailor-made solutions as long as you provide us with the appropriate parameters required at the quote request stage, such as the number of cable glands, unions or sealing fittings to be installed, so that we can determine the most suitable size of enclosure. All terminals can be fitted with your requested accessories and mounted on special rails that are fastened to the enclosure's internal mounting frames. Terminal strips can be arranged in various ways, as specified by the customer and always within the limits allowed by the certificate. The options are vertical, horizontal, in a number of rows, or on different levels using suitable spacers.

ELECTRICAL FEATURES

Rated voltage: 1000 V Rated frequency: 50 / 60 Hz

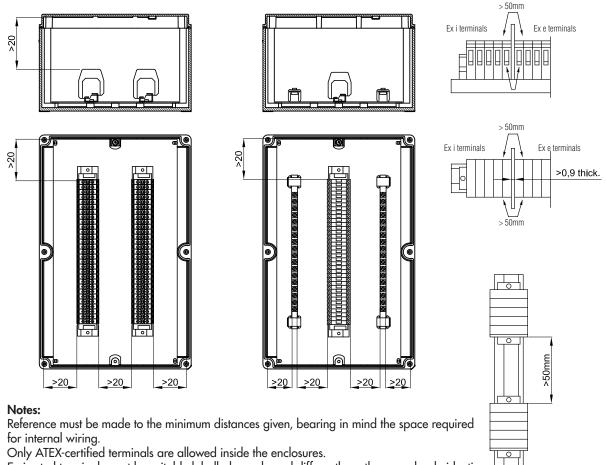
Modular terminals

Terminal cross-sectional area: 1.5; 2.5; 4; 6; 10; 25; 35; 70; 95; 120; 185; 240; 300 [mm²]

Rated current: 8 - 400 [A]

Marking	Terminal type	Description
Ex II 2GD Ex e II T Gb - Ex tb IIIC T Db IP66	Ex e terminals only	Enclosures containing increased safety terminals to standard EN 60079-7
Ex II 2GD Ex ia IIC T Gb - Ex ia IIIC T Db IP66	Ex e and Ex i terminals	Enclosures containing increased safety terminals and intrinsic safety terminals to standards EN 60079-7 and EN 60079-11
Ex II 2 GD Ex e ia IIC T Gb - Ex tb ia IIIC T Db IP66	Ex I terminals only	Enclosures containing intrinsic safety terminals to standard EN 60079-11; enclosures are still category 2

Examples of terminal strips with minimum installation distances



Ex i rated terminals must be suitably labelled or coloured differently so they are clearly identifiable.

Ex i cable entries must be suitably identified with either labelling or blue markings on cable glands or the enclosure's sides.

					MA	XIMU	M NU	MBER C	OF TER/	MINALS	HOUS	SED				
TYPE OF ENCLOSURE						TE	RMINA	L CROSS	S-SECTION	ONAL AR	REA					
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
SA090907	11	7	6	5	-	-	-	-	-	-	-	-	-	-	-	-
SA/SAG111108	16	11	9	7	5	-	-	-	-	-	-	-	-	-	-	-
SA/SAG171108	32	22	19	14	11	9	-	-	-	-	-	-	-	-	-	-
SA/SAG141410	26	18	15	11	9	7	5	-	-	-	-	-	-	-	-	-
SA202012	2x40	2x28	2x23	17	13	11	8	-	-	-	-	-	-	-	-	-
SA/SAG301410	69	48	40	30	24	20	14	-	-	-	-	-	-	-	-	-
SA/SAG302310	2x70	2x48	2x40	2x30	2x24	2x20	15	-	-	-	-	-	-	-	-	-
SA/SAG302318	2x70	2x48	2x40	2x30	2x24	2x20	15	15	13	11	-	-	-	-	-	-
SA/SAG473018	2x116	2x81	2x68	2x51	2x40	2x33	2x25	2x25	2x22	2x19	14	12	12	11	11	-
SAG623018	2x159	2x111	2x93	2x69	2x55	2x46	2x34	2x34	2x30	2x27	20	17	17	15	15	-
SAG606018	5x142	5x99	5x83	5x62	5x49	5x41	4x31	4x31	3x27	3x24	18	15	15	13	13	-

Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

The permissible maximum power dissipation, in order to retain a T6 temperature class with an ambient temperature up to 40°C or T5 class with an ambient temperature of 55°C, is not to exceed the values given in the tables below. For an ambient temperature of +60°C or +65°C, maximum power dissipation must be reduced by 25%, and rated current reduced by 15%.

The maximum current values for terminal boxes used for low current circuits (signals) with temperature class T6 and maximum ambient temperature +60°C are always as given below:

1A for Ex e circuits;

100mA for Ex ia circuits.

On the following pages, the table values refer to the maximum number of conductors allowed for a conductor with a given cross-sectional area and subject to a given maximum current. All incoming wires and internal links (made by wires) count as wires; earth connections do not count.

When mounting rails are installed on the internal mounting plate (and not directly on internal ribs of boxes), the number of terminals may be slightly less than the number indicated in the tables.

Other types of terminals can be used up to the space limit of the box. Whatever the case, the terminals used shall be ATEX and/or IECEx certified. Size 35mm² terminals can be used for conductors with a cross-sectional area of 25mm².

The maximum number of terminals and the maximum number of rows shown in the tables is an indicative value; pay attention to the cable entries installed on the sides of boxes. The internal overall dimensions of cable glands and the overall dimensions of conductors must be taken into consideration to allow for wiring. In some cases, it may be necessary to reduce the number of terminals or the number of rows.

Example for the calculation of the maximum number of conductors.

Refer to table for SA141410: 6 conductors with 6mm² cross-section with 26A continuous current is the limit of this box. Consequently, SA141410 is suitable for containing 3 x 6mm² terminals (2 conductors for each terminal) with a max. current of 26A. There is space for 11 x 6mm² terminals in the box. The remaining 8 terminals (11-3) can be added and used for low current circuits indicated in area "yellow" of the table (in this case max. 8-10A).

Combined mounting for electrical circuits with different sized cables is possible provided the values given are used proportionally.

For example:

Nominal X-sect. area (mm²)	Current (A)	Quantity	Capacity
2.5	16	10 (out of 30)	33%
16	50	12 (out of 48)	25%
25	63	36 (out of 90)	40%
		Total	98% <100%

Table showing maximum power dissipation and current for ambient temperature +40°C and +55°C

- 1	Р				Mc	ıximum	curren	f [A] pe	r condu	ctor cro	oss-secti	onal ar	ea in m	ım²			
Enclosure	[W]	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
SA090907	5.6	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SA111108	7.5	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SA171108	8.8	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SA141410 SA202012	7.8	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SA301410	15	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SA302310	16	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SA302318	17.5	11	15	21	26	37	49	67	80	98	122	147	175	196	196	196	227
SA473018	42	11	15	21	26	37	49	67	80	98	122	147	175	196	227	270	312
SAG090907	5.6	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SAG111108	7.5	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SAG171108	8.8	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SAG141410 SAG202012	7.8	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SAG301410	15	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SAG302310	16	11	15	21	26	37	49	67	-	-	-	-	-	-	-	-	-
SAG302318	17.5	11	15	21	26	37	49	67	80	98	122	147	175	196	196	196	227
SAG473018	42	11	15	21	26	37	49	67	80	98	122	147	175	196	227	270	312
SAG623018 SAG606018	52	11	15	21	26	37	49	67	80	98	122	147	175	196	227	270	312

Table showing maximum power dissipation and current for ambient temperature +60°C and +65°C

	Р				Mc	ximum	curren	t[A] pe	r condu	ctor cro	oss-secti	onal ar	ea in m	nm²			
Enclosure	[w]	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
SA090907	4.2	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SA111108	5.6	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SA171108	6.6	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SA141410 SA202012	5.8	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SA301410	11.2	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SA302310	12	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SA302318	13.1	9	12	17	22	31	41	57	68	83	103	125	148	166	166	166	193
SA473018	31.5	9	12	17	22	31	41	57	68	83	103	125	148	166	193	229	265
SAG090907	4.2	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SAG111108	5.6	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SAG171108	6.6	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SAG141410 SAG202012	5.8	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SAG301410	11.2	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SAG302310	12	9	12	17	22	31	41	57	-	-	-	-	-	-	-	-	-
SAG302318	13.1	9	12	17	22	31	41	57	68	83	103	125	148	166	166	166	193
SAG473018	31.5	9	12	17	22	31	41	57	68	83	103	125	148	166	193	229	265
SAG623018 SAG606018	39	9	12	17	22	31	41	57	68	83	103	125	148	166	193	229	265

Instructions for determining which enclosure is best suited based on the planned number of conductors and terminals.

: In this unfilled area, provided the relevant instructions are followed and the permitted measurements given for devices housed inside the enclosure are complied with, any number of terminals can be added up to the space limit of the box

: Fitting in this unfilled area is not covered by this certification.

"C. No." row: values shown in the cells define the maximum number of CABUR terminals physically allowed inside the relevant enclosure. These values are expressed as a product of the rows multiplied by the number of terminals on each row.

"W. No." row: the same as above, but referred to the Weidmuller terminals.

The terminal brands are mentioned just to give an idea of the number of terminals that can be installed inside the enclosures.

The other values shown in the cells along the table's diagonal define the maximum number of conductors allowed, depending on their cross-sectional area and the maximum current that flows through them.

Tables showing maximum number of conductors

 $(N^{\circ} \text{ of terminals} = \frac{n^{\circ} \text{ of conductors}}{2})$

SA090907

Current		Cros	s-secti	onal a	rea in	mm ²	
(A)	1.5	2.5	4	6	10	16	25
8	17						
10	11						
11	9	15					
15		8	11				
21			6	7	10		
26				5	7	9	
37					3	4	6
49						3	3
67							2
C. No.							
W. No.	11	7	6	5			

Maximum power dissipation with T6 temperature class must not exceed 5.6W

SA111108, SAG111108

Current		Cross	s-secti	onal a	rea in	mm ²	
(A)	1.5	2.5	4	6	10	16	25
8	19	32					
10	12	20	29				
11	10	17	24				
15		9	13	17			
21			6	9	12		
26				6	8	11	
37					4	5	7
49						3	4
67							2
C. No.							
W. No.	16	11	9	7	5		
Acvimum r	outor	diagin	otion	with "	TC ton	anara	turo

Maximum power dissipation with T6 temperature class must not exceed 7.5W

SA141410, SAG141410

Current		Cross	s-secti	onal a	rea in	mm ²	
(A)	1.5	2.5	4	6	10	16	25
8	19	32					
10	12	20	29				
11	10	17	24	32			
15		9	13	17	25		
21			7	9	13	18	23
26				6	8	11	15
37					4	6	7
49						3	4
67							2
C. No.		16	14	11	9	7	5
W. No.	26	18	15	11	9	7	5

Maximum power dissipation with T6 temperature class must not exceed 7.8W

SA171108, SAG171108

4	6	10	16	25
				43
32				
27	36			
14	19	28	38	
7	10	14	19	26
	6	9	13	17
		5	6	8
			4	5
				3
19	14	11	9	
	7	14 19 7 10 6	14 19 28 7 10 14 6 9 5	14 19 28 38 7 10 14 19 6 9 13 5 6 4

Maximum power dissipation with T6 temperature class must not exceed 8.8W

SA202012

Current		Cross	s-secti	onal a	rea in	mm ²	
(A)	1.5	2.5	4	6	10	16	25
8	19	32					
10	12	20	29				
11	10	17	24	32			
15		9	13	17	25		
21			7	9	13	18	23
26				6	8	11	15
37					4	6	7
49						3	4
67							2
C. No.		2x25		17	13	11	8
W. No.	2x40	2x28	2x23	17	13	11	8

Maximum power dissipation with T6 temperature class must not exceed 7.8W

SA301410, SAG301410

Current	ŕ	Cros	s-secti	onal a	rea in	mm ²	
(A)	1.5	2.5	4	6	10	16	25
8	27	46	67				
10	18	29	43	59	90		
11	15	24	36	49	74		
15		13	19	26	40	56	79
21			10	13	20	29	40
26				9	13	19	26
37					7	9	13
49						5	7
67							4
C. No.							
W. No.							

Maximum power dissipation with T6 temperature class must not exceed 15W

\$4302310 \$4G302310

ONUULUI	u, un	uou	-010				
Current		Cros	s-sect	ional a	rea in	mm ²	
(A)	1.5	2.5	4	6	10	16	25
8	27	46	68	94	142		
10	18	29	43	60	91		
11	15	24	36	50	75	107	
15		13	19	27	41	58	81
21			10	14	21	29	41
26				9	13	19	27
37					7	9	13
49						5	8
67							4
C. No.		2x44	2x37	2x30	2x24	2x20	15
W. No.	2x70	2x48	2x40	2x30	2x24	2x20	15

Maximum power dissipation with T6 temperature class must not exceed 16W

Tables showing maximum number of conductors

SA302318. SAG302318

<u>38302310</u>	, onace	2010														
Current							Cro	ss-section	al area in 1	mm²						
(A)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
8	30	49	73	102	155	223										
10	19	32	47	65	99	142	201									
11	16	26	39	54	82	118	166	210								
15		14	21	29	44	63	89	113	138							
21			11	15	23	32	45	58	71	90						
26				10	15	21	30	38	46	59	71					
37					7	10	15	19	23	29	35	40	45			
49						6	8	11	13	17	20	23	25	28	31	
67							4	6	7	9	11	12	14	15	17	11
80								4	5	6	8	9	10	11	12	8
98									3	4	5	6	6	7	8	5
122										3	3	4	4	5	5	5
147											2	3	3	3	3	4
175												2	2	2	2	3
196													2	2	2	2
227																2
C. No.		2x44	2x37	2x30	2x24	2x20	15	15	13	11						
W. No.	2x70	2x48	2x40	2x30	2x24	2x20	15	15	13	11						

Maximum power dissipation with T6 temperature class must not exceed 17.5W

SA473018, SAG473018

Current	ĺ						Cro	ss-section	al area in	mm²						
(A)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
8	51	84	128	181	282	414										
10	32	54	82	116	180	265	383									
11	27	45	68	96	149	219	317	411								
15		24	36	51	80	118	170	221	278							
21			19	26	41	60	87	113	142	188						
26				17	27	39	57	74	92	122	154					
37					13	19	28	36	46	60	76	89				
49						11	16	21	26	34	43	51	59	68		
67							9	11	14	18	23	27	31	36	43	
80								8	10	13	16	19	22	25	30	23
98									7	9	11	13	15	17	20	15
122										6	7	8	9	11	13	15
147											5	6	7	8	9	10
175												4	5	5	6	7
196													4	4	5	6
227														3	4	4
270															3	3
312																2
C. No.		2x74	2x62	2x51	2x40	2x33	2x25	2x25	2x22	2x19	12	9	9	8	8	8
W. No.	2x116	2x81	2x68	2x51	2x40	2x33	2x25	2x25	2x22	2x19	14	12	12	11	11	

Maximum power dissipation with T6 temperature class must not exceed 42W

SA623018

Current	Cross-sectional area in mm ²															
(A)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
8	59	98	150	215	338	501										
10	38	63	96	137	216	321	469									
11	31	52	80	113	179	265	388	507								
15		28	43	61	96	142	208	273	346							
21			22	31	49	73	106	139	176	236						
26				20	32	47	69	91	115	154	196					
37					16	23	34	45	57	76	97	115				
49						13	20	26	32	43	55	65	76			
67							10	14	17	23	29	35	41	47		
80								10	12	16	21	25	29	33	40	31
98									8	11	14	16	19	22	26	20
122										7	9	11	12	14	17	20
147											6	7	8	10	12	14
175												5	6	7	8	10
196													5	6	7	8
227														4	5	6
270															3	4
312																3
C. No.		2x101	2x85	2x69	2x55	2x46	2x34	2x34	2x30	2x27	17	13	13	10	10	10
W. No.	2x159	2x111	2x93	2x69	2x55	2x46	2x34	2x34	2x30	2x27	20	17	17	15	15	

Maximum power dissipation with T6 temperature class must not exceed $52\mbox{W}$

Tables showing maximum number of conductors

SA606018

Current							Cro	ss-section	al area in 1	mm²						
(A)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
8	59	98	150	215	338	501										
10	38	63	96	137	216	321	469									
11	31	52	80	113	179	265	388	507								
15		28	43	61	96	142	208	273	346							
21			22	31	49	73	106	139	176	236						
26				20	32	47	69	91	115	154	196					
37					16	23	34	45	57	76	97	115				
49						13	20	26	32	43	55	65	76			
67							10	14	17	23	29	35	41	47		
80								10	12	16	21	25	29	33	40	31
98									8	11	14	16	19	22	26	20
122										7	9	11	12	14	17	20
147											6	7	8	10	12	14
175												5	6	7	8	10
196													5	6	7	8
227														4	5	6
270															3	4
312																3
C. No.		5x90	5x76	5x62	5x49	5x41	4x31	4x31	3x27	3x24	15	11	11	9	9	9
W. No.	5x142	5x99	5x83	5x62	5x49	5x41	4x31	4x31	3x27	3x24	18	15	15	13	13	

Maximum power dissipation with T6 temperature class must not exceed 52W

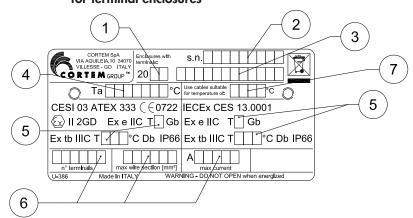
Codes of terminals used to determine maximum number of terminals/conductors.

The other values shown in the cells along the table's diagonal define the maximum number of conductors allowed, depending on their cross-sectional area and the maximum current that flows through them.

Sq mm	1.5	2.5	4	6	10	16	25	35
Cabur		CBD 2	CBD 4	CBD 6	CBD 10	CBD 16	CBD	35
Weidmuller	WDU 1.5	WDU 2.5	WDU 4	WDU 6	WDU 10	WDU 16	WDU	J 35

Sq mm	50	70	95	120	150	185	240	300
Cabur	CBD 50	CBD 70	GPM95/CC	GPM1	50/CC		GPM240/CC	
Weidmuller	WDU 50	WDU 70	WDU 70/95	WDU 12	20/150	WDU	240	

ATEX - IECEx label for terminal enclosures



Data filled in:

- 1. year of manufacture
- 2. serial number
- 3. product code
- 4. ambient temperature
- 5. temperature class and maximum surface temperature
- 6. electrical specs per certificate
- 7. temperature of cables

DON'T FORGET TO ORDER THE ACCESSORIES

Example: Enclosure type SA202012

Internal mounting plate B20-229 Cable glands, unions

other...see key





SA, SAG... series Accessories available on request and spare

ILLUSTRATION	DESCRIPTION	MODEL	DIMEN A	SIONS B	CODE	KEY
		SA090907	82	48	B09-229	
		SAG090907	73	48	B09-229P	
		SA111108	100	68	B11-229	
	Internal mounting plates	SAG111108	92	68	B11-229P	
B	Thickness 2.5mm Aluminium	SA141410	137	105	B14-229	
A		SAG141410	129	105	B14-229P	
	Alonimioni	SA171108	159	67	B17-229	
	Galvanized steel	SA202012	186	146	B17-229P	
	(B229AC)	SA/SAG301410	285	97	B31-229	
	Stainless steel (B229IN)	SA/SAG302310 SA/SAG302318	285	180	B32-229	
		SA/SAG473018	453	254	B43-229	
		SA/SAG623018	603	249	B63-229	
		SAG606018	532	532	B60-229	
ILLUSTRATION	DESCRIPTION	MODEL	FEAT	URES	CODE	KEY
	Breather and drain valve	Thread diameter ISO 7-R 3/8"	Mate stainle		ECD-210S	ACCESSORIO RICAMBIO
	Hinges	Low lid enclosures Material:		B-0105	RICAMBIO RICAMBIO	
	(2 per enclosure)	High lid enclosures	stainle	ss steel	B-0106	ACCESSORIO
The Royal Park	Hinges (2 per enclosure)	SAG606018	Mate stainle		K-0351	RICAMBIO
	Entry blanking plugs				PLG	ACCESSORIO RICAMBIO
	Lock nuts				DL	ACCESSORIO RICAMBIO
	Cable glands and unions	For models	and codes, visit		REV REVD	ACCESSORIO RICAMBIO
	Protective PVC sheaths Sealed bushings		www.cortemgroup.com		PGA	ACCESSORIO RICAMBIO
					CP TP	ACCESSORIO RICAMBIO
	Adapters and reducers				RE	ACCESSORIO RICAMBIO
	Lid-mounted control and signalling devices	For control and signalling device models and codes, see control and monitoring device chapter		M-0 (Ex de)	ECCESSORS FICAMIO	



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure:	SA090907
Width/Depth/Height:	90/90/73mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

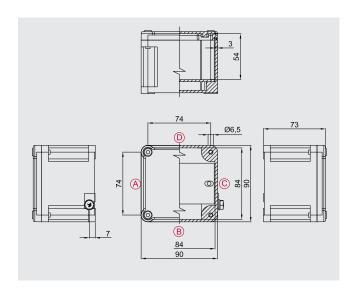
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

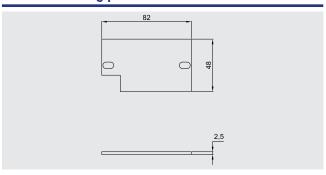
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B09-229
2.5mm-thick galvanized steel:	B09-229AC
2.5mm-thick stainless steel:	B09-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x11
2.5 mm ²	1x7
4 mm ²	1x6
6 mm ²	1x5
10 mm ²	-
16 mm ²	-
25 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	1	1
M20	1	1
M25	1	1
M32	-	-
M40	-	-
M50	-	-
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SA111108

Width/Depth/Height: 110/110/83mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

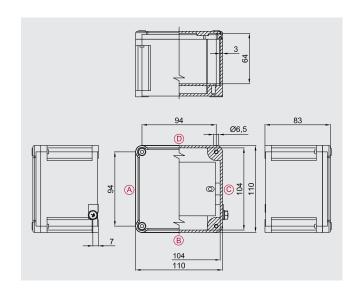
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

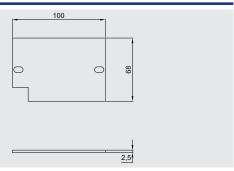
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B11-229
2.5mm-thick galvanized steel:	B11-229AC
2.5mm-thick stainless steel:	B11-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x16
2.5 mm ²	1x11
4 mm ²	1x9
6 mm ²	1x7
10 mm ²	1x5
16 mm ²	-
25 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	3	3
M20	2	2
M25	1	1
M32	1	1
M40	-	-
M50	-	-
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure:	SAG111108
Width/Depth/Height:	110/110/83mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

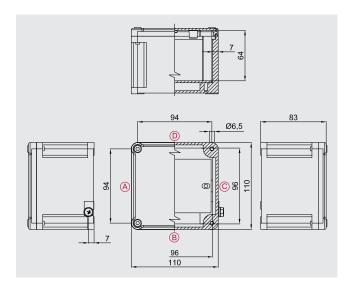
Accessories

Internal mounting plate:	CODE
2.5mm-thick aluminium:	B11-229P
2.5mm-thick galvanized steel:	B11-229PAC
2.5mm-thick stainless steel:	B11-229PIN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

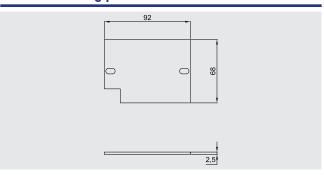
Other:

B.19

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x16
2.5 mm ²	1x11
4 mm ²	1x9
6 mm ²	1x7
10 mm ²	1x5
16 mm ²	-
25 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	3	3
M20	2	2
M25	1	1
M32	1	1
M40	-	-
M50	-	-
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SA171108

Width/Depth/Height: 170/110/83mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

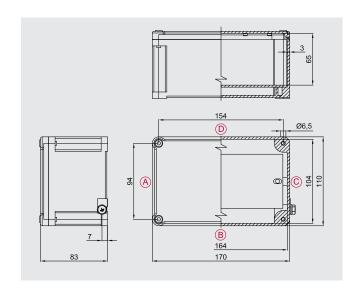
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

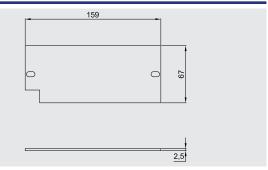
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B17-229
2.5mm-thick galvanized steel:	B17-229AC
2.5mm-thick stainless steel:	B17-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x32
2.5 mm ²	1x22
4 mm ²	1x19
6 mm ²	1x14
10 mm ²	1x11
16 mm ²	1x9
25 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	3	8
M20	2	5
M25	1	3
M32	1	2
M40	-	-
M50	-	-
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure:	SAG171108
Width/Depth/Height:	170/110/83mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

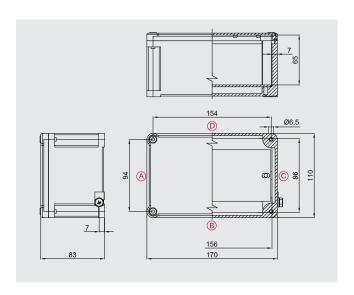
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

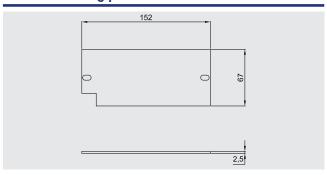
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B17-229P
2.5mm-thick galvanized steel:	B17-229PAC
2.5mm-thick stainless steel:	B17-229PIN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x32
2.5 mm ²	1x22
4 mm ²	1x19
6 mm ²	1x14
10 mm ²	1x11
16 mm ²	1x9
25 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	3	8
M20	2	5
M25	1	3
M32	1	2
M40	-	-
M50	-	-
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SA141410

Width/Depth/Height: 147/147/100mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

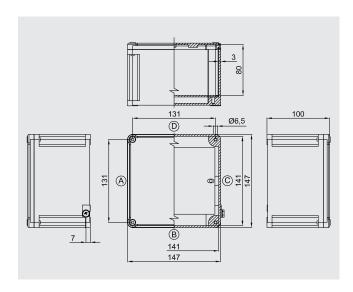
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

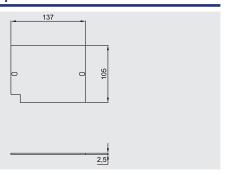
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B14-229
2.5mm-thick galvanized steel:	B14-229AC
2.5mm-thick stainless steel:	B14-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x26
2.5 mm ²	1x18
4 mm ²	1x15
6 mm ²	1x11
10 mm ²	1x9
16 mm ²	1x7
25 mm ²	1x5
70 mm ²	-
120 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	6	6
M20	6	6
M25	3	3
M32	2	2
M40	1	1
M50	-	-
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG141410

Width/Depth/Height: 147/147/100mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

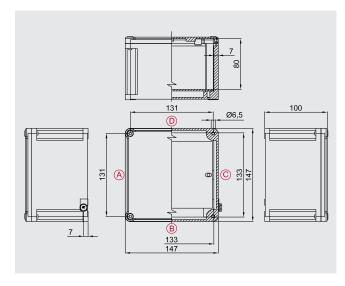
Accessories

Internal mounting plate:	CODE
2.5mm-thick aluminium:	B14-229P
2.5mm-thick galvanized steel:	B14-229PAC
2.5mm-thick stainless steel:	B14-229PIN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

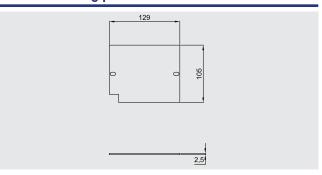
Other:

B.23

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	1x26
2.5 mm ²	1x18
4 mm ²	1x15
6 mm ²	1x11
10 mm ²	1x9
16 mm ²	1x7
25 mm ²	1x5
70 mm ²	-
120 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

A/C	B/D
6	6
6	6
3	3
2	2
1	1
-	-
-	-
	6 6 3



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SA202012

Width/Depth/Height: 200/200/120mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

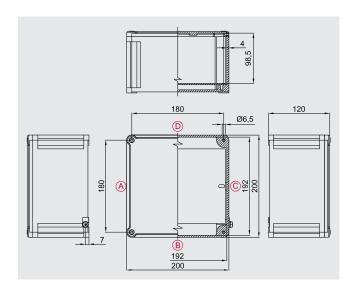
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

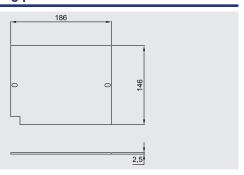
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B20-229
2.5mm-thick galvanized steel:	B20-229AC
2.5mm-thick stainless steel:	B20-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating
External epoxy coatings in different colour
Terminals
Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
1.5 mm ²	2x40
2.5 mm ²	2x28
4 mm ²	2x23
6 mm ²	1x17
10 mm ²	1x13
16 mm ²	1x11
25 mm ²	1x8
70 mm ²	-
120 mm ²	_



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	8	8
M20	7	7
M25	6	6
M32	3	3
M40	2	2
M50	1	1
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure:	SA301410
Width/Depth/Height:	305/147/109mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

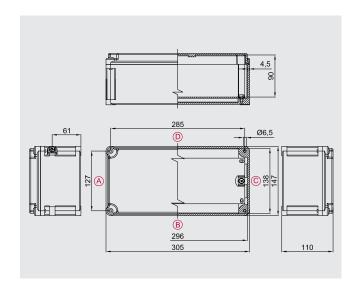
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

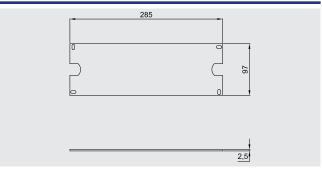
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B31-229
2.5mm-thick galvanized steel:	B31-229AC
2.5mm-thick stainless steel:	B31-229IN
Hinges (two each type):	B-0106
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	1x48
4 mm^2	1x40
6 mm ²	1x30
10 mm ²	1x24
16 mm^2	1x20
25 mm^2	1x14
70 mm ²	-
120 mm ²	-
185 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	6	14
M20	6	12
M25	3	9
M32	2	5
M40	1	4
M50	1	3
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG301410

Width/Depth/Height: 305/147/96mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

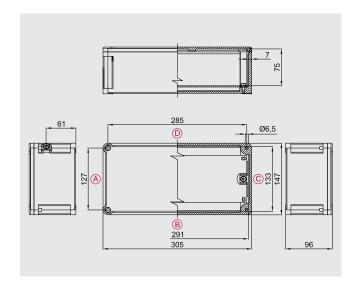
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

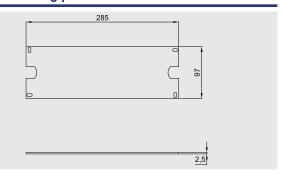
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B31-229
2.5mm-thick galvanized steel:	B31-229AC
2.5mm-thick stainless steel:	B31-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating
External epoxy coatings in different colour
Terminals
Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	1x48
4 mm ²	1x40
6 mm ²	1x30
10 mm ²	1x24
16 mm ²	1x20
25 mm ²	1x14
70 mm ²	-
120 mm ²	-
185 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Ho typ		A/C	B/D
M	16	6	14
M2	20	6	12
M2	25	3	9
M	32	2	5
M	40	1	4
M	50	1	3
Md	53	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure:	SA302310
Width/Depth/Height:	305/230/109mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

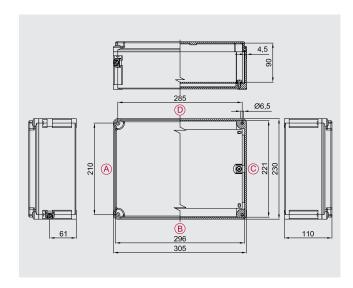
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

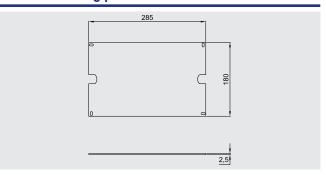
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B32-229
2.5mm-thick galvanized steel:	B32-229AC
2.5mm-thick stainless steel:	B32-229IN
Hinges (two each type):	B-0106
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2x48
4 mm ²	2x40
6 mm ²	2x30
10 mm ²	2x24
16 mm ²	2x20
25 mm ²	15
70 mm ²	-
120 mm ²	-
185 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M16	10	14
M20	10	12
M25	7	9
M32	3	5
M40	3	4
M50	2	3
M63	-	-



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG302310

Width/Depth/Height: 305/230/99mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

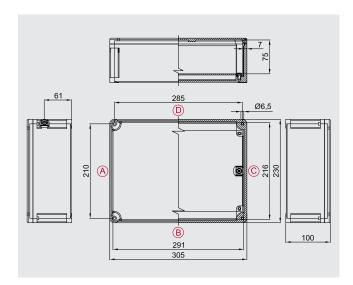
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

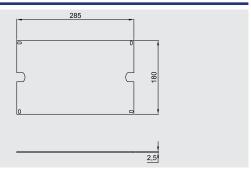
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B32-229
2.5mm-thick galvanized steel:	B32-229AC
2.5mm-thick stainless steel:	B32-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating
External epoxy coatings in different colour
Terminals
Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2x48
4 mm ²	2x40
6 mm ²	2x30
10 mm ²	2x24
16 mm ²	2x20
25 mm ²	15
70 mm ²	-
120 mm ²	-
185 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

A/C	B/D
10	14
10	12
7	9
3	5
3	4
2	3
	10 10 7 3 3



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/EC.



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SA302318

Width/Depth/Height: 305/230/189mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

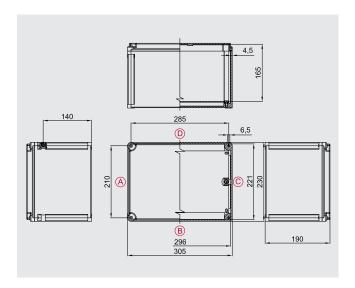
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

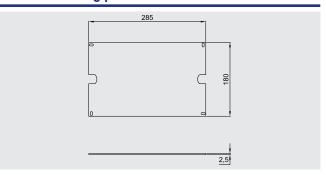
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B32-229
2.5mm-thick galvanized steel:	B32-229AC
2.5mm-thick stainless steel:	B32-229IN
Hinges (two each type):	B-0106
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2x48
4 mm ²	2x40
6 mm ²	2x30
10 mm ²	2x24
16 mm ²	2x20
25 mm ²	15
50 mm ²	13
70 mm ²	-
185 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M20	18	24
M25	12	18
M32	9	14
M40	6	8
M50	4	6
M63	2	3



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/





Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG302318

Width/Depth/Height: 305/230/179mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

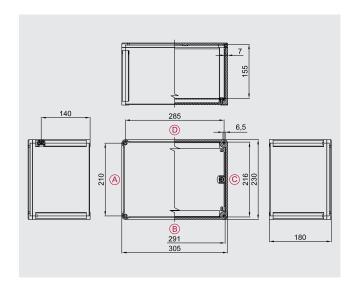
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

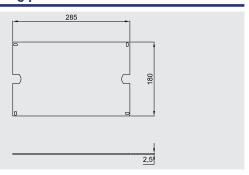
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B32-229
2.5mm-thick galvanized steel:	B32-229AC
2.5mm-thick stainless steel:	B32-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating
External epoxy coatings in different colour
Terminals
Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2x48
4 mm ²	2x40
6 mm ²	2x30
10 mm ²	2x24
16 mm ²	2x20
25 mm ²	15
50 mm ²	13
70 mm ²	-
185 mm ²	-



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M20	18	24
M25	12	18
M32	9	14
M40	6	8
M50	4	6
M63	2	3



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC



Zone 1,2,21,22.

Degree of protection IP67.

Aluminium alloy body and lid.

Silicone gasket.

Stainless steel bolts and screws.

Epoxy coating RAL 7035.

Impact protection IK10.

Ordering details

Standard aluminium enclosure: SA473018

Width/Depth/Height: 407/305/195mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

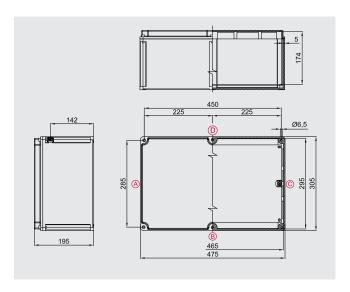
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

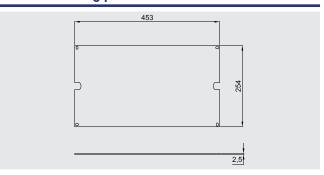
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B43-229
2.5mm-thick galvanized steel:	B43-229AC
2.5mm-thick stainless steel:	B43-229IN
Hinges (two each type):	B-0106
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2x81
4 mm ²	2x68
6 mm ²	2x51
10 mm ²	2x40
16 mm ²	2x33
25 mm ²	2x25
70 mm ²	2x19
120 mm ²	12
185 mm ²	11



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M20	24	36
M25	18	24
M32	14	18
M40	8	12
M50	8	12
M63	3	4



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/



Zone 1,2,21,22.

Degree of protection IP67.

Aluminium alloy body and lid.

Silicone gasket.

Stainless steel bolts and screws.

Epoxy coating RAL 7035.

Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG473018

Width/Depth/Height: 625/305/195mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

Il 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

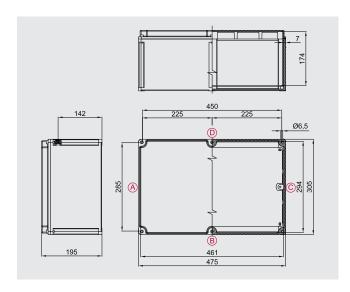
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

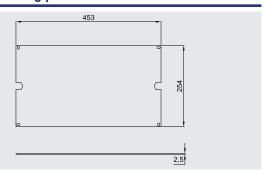
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B43-229
2.5mm-thick galvanized steel:	B43-229AC
2.5mm-thick stainless steel:	B43-229IN
Hinges (two each type):	B-0105
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2x81
4 mm ²	2x68
6 mm ²	2x51
10 mm ²	2x40
16 mm ²	2x33
25 mm ²	2x25
70 mm ²	2x19
120 mm ²	12
185 mm ²	11



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M20	24	36
M25	18	24
M32	14	18
M40	8	12
M50	8	12
M63	3	4



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC



Zone 1,2,21,22.
Degree of protection IP67.
Aluminium alloy body and lid.
Silicone gasket.
Stainless steel bolts and screws.
Epoxy coating RAL 7035.
Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG623018

Width/Depth/Height: 625/305/195mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

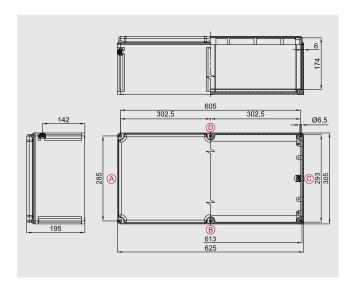
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

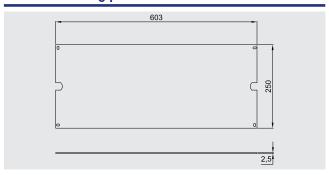
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B63-229
2.5mm-thick galvanized steel:	B63-229AC
2.5mm-thick stainless steel:	B63-229IN
Hinges (two each type):	B-0106
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	2×111
4 mm ²	2x93
6 mm ²	2x69
10 mm ²	2x55
16 mm ²	2x46
25 mm ²	2x34
70 mm ²	2x27
120 mm ²	1 <i>7</i>
185 mm ²	15



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

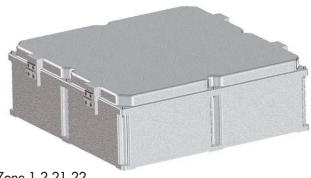
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M20	24	48
M25	18	36
M32	14	28
M40	8	16
M50	8	12
M63	3	6



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/



Zone 1,2,21,22. Degree of protection IP67. Aluminium alloy body and lid. Silicone gasket.

Stainless steel bolts and screws. Complete with hinges. Epoxy coating RAL 7035.

Impact protection IK10.

Ordering details

Standard aluminium enclosure: SAG606018

Width/Depth/Height: 600/600/206mm

Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex e IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex e ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

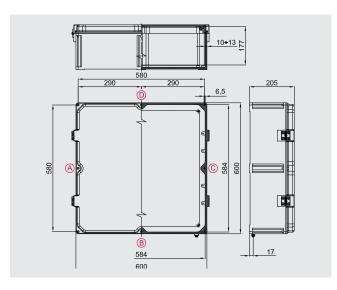
CESI 03 ATEX 333 (ATEX)
IEC Ex CES 13.0001 (IECEx)
Russian (GOST R)

Accessories

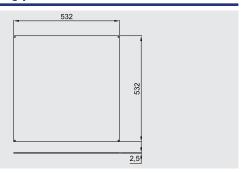
Internal mounting plate:	CODE
2.5mm-thick aluminium:	B60-229
2.5mm-thick galvanized steel:	B60-229AC
2.5mm-thick stainless steel:	B60-229IN
Breather and drain valve:	ECD-210S

Other:

Internal anti-condensation coating External epoxy coatings in different colour Terminals Cable glands



Internal mounting plate dimensions



Max. number of terminals

X-SECT.	QTY.
2.5 mm ²	5x99
4 mm ²	5x83
6 mm ²	5x62
10 mm ²	5x49
16 mm ²	5x41
25 mm ²	4x31
70 mm ²	3x24
120 mm ²	15
185 mm ²	13



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR or WEIDMULLER terminals.

The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals

Number of cable glands

Hole type	A/C	B/D
M20	40	35
M25	30	26
M32	25	16
M40	12	10
M50	12	10
M63	4	4



As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive 94/9/FC

Features of junction boxes for control, monitoring and signalling units



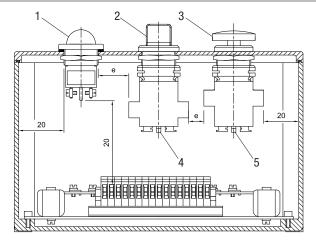
Control, monitoring and signalling units are used to produce control boards that, when positioned near the electrical equipment being controlled, enable the electrical system to operate correctly and guarantee the safety of personnel when maintenance is being performed on the system. Because they are fitted with a Manual/Automatic selector, they allow operators to select the appropriate conditions to enable work to be performed entirely safely. They offer protection and control for electrical equipment and control circuits located in explosion hazard areas and in particularly aggressive environments. They are used to hold electrical equipment, such as switches, indicators, contactors, transformers, analogue and digital components, etc.... with the option of external control by using lid-mounted Cortem control and signalling devices, such as control levers, pushbuttons, indicator lights, etc.... Cortem designs, develops and supplies full cabling for one or more enclosures tailored to your specific requirements, producing panel boards - including even extremely complex solutions - and providing a full inspection and testing service on request.

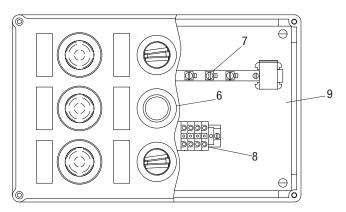
ELECTRICAL FEATURES

Rated voltage: 600 V ac/dc

Max. current on contacts: 16 A
Rated frequency: 50 / 60Hz

MINIMUM DISTANCES BETWEEN CORTEM Ex e CONTACTS (e.g. with reference to CESI 03 ATEX 115 certificate)





Key:

- 1. indicator light M-0612
- 2. rotating selector M-0604
- 3. emergency stop pushbutton M-0605
- 4. contact block M-0530
- 5. contact block M-0531
- 6. pushbutton M-0603
- 7. earth bar
- 8. terminals
- 9. internal mounting plate

Notes:

"e">12mm: standard version.

Suitable for voltage U<800V

"e">5mm: special versions.

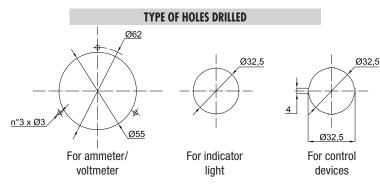
Suitable for voltage U<250V

When determining enclosure size, what holes are drilled and what devices can be installed, we also need to take into account the space required for internal wiring and running the cables.

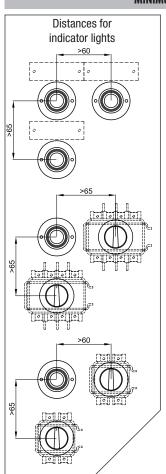
SA, SAG... series Lid drilling data

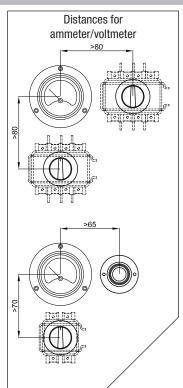
TYPE OF ENCLOSURE	Drilling area mm
SA090907	70x70
SA/SAG111108	90x90
SA/SAG171108	90x150
SA/SAG141410	127x127
SA202012	180x180
SA/SAG301410	127x285
SA/SAG302310	210x285
SA/SAG302318	210x285
SA/SAG473018	285x450
SAG623018	280x595
SAG606018	505x505

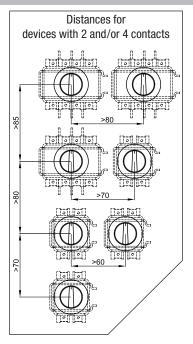


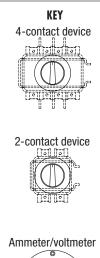


MINIMUM DISTANCES BETWEEN CORTEM Ex e DEVICES FOR PUSHBUTTON CONTROL STATIONS















Notes:

Minimum distances between devices worked out for use of standard 60x20 plates.

Option of using up to 4 contacts per device for pushbutton M-0603 and selector M-0604.

Option of using up to 2 contacts per device for emergency stop pushbutton M-0605.

For more information, refer to the Ex e control, monitoring and signalling devices chapter.



