



ATEX ENCLOSURES: SA, SAG





The enclosures of the SA, SAG series are large junction boxes, in light or reinforced version. They are made of aluminum alloy with EPOXY coating baked at 200 °C; this treatment guarantees a good thermal stability and resistance to UV, as well as a high mechanical resistance. The enclosures of the SA, SAG range are generally installed in areas 1, 2, 21, 22 and used with connection terminals or with electrical equipment for monitoring, control, signaling. The enclosures can be drilled and tapped on both the sides and the lid in accordance with customer demand.

AMBIENT TEMPERATURE RANGES:

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE			
-40°C +40°C	T6	T75°C	+80°C			
-40°C +55°C	T5	T75°C	+95°C			

TEMPERATURE RANGE FOR SIGNALING (MAX 1 A FOR CIRCUITS OTHER THAN Ex i, MAX 100 mA FOR «Ex i» CIRCUITS):

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE
-40°C +60°C	T6	T75°C	+80°C



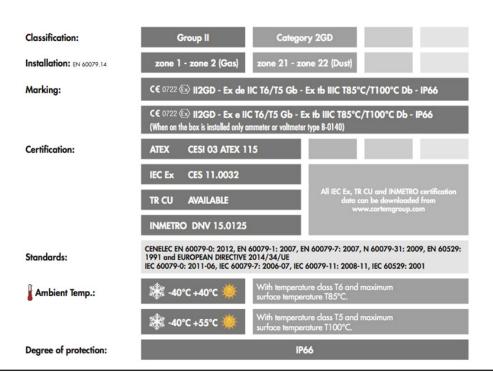


TEMPERATURE RANGE FOR SIGNALING (MAX 10 A FOR CIRCUITS OTHER THAN Ex i, MAX 100 mA FOR «Ex i» CIRCUITS) :

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE
-60°C +85°C	T4	T110°C	+120°C

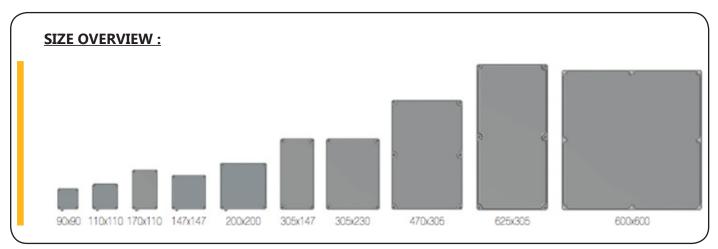
CERTIFICATION DATA FOR BOXES WITH TERMINALS: Category 2GD Classification: Group II zone 21 - zone 22 (Dust Installation: EN 60079.14 zone 1 - zone 2 (Gas) Marking: C€ 0722 II 2GD Ex eb IIC T6/T5/T4 Gb - Ex tb IIIC T75°C/T110°C Db IP66 C€ 0722 ₺ II 2GD Ex e ia IIC T6/T5/T4 Gb - Ex ia IIIC T75°C/T110°C Db IP66 C€ 0722 € II 2GD Ex eb ia IIC T6/T5/T4 Gb - Ex tb ia IIIC T75°C/T110°C Db IP66 **CESI 03 ATEX 333** Certification: **ATEX IEC Ex CES 13.0001** All IEC Ex, TR CU and INMETRO certif TR CU AVAILABLE **INMETRO DNV 15.0119** CENELEC EN 60079-0: 2012+A11:2013, EN 60079-7: 2015, EN 60079-11: 2012, EN 60079-31: 2014 ed alla DIRETTIVA EUROPEA 2014/34/UE IEC 60079-0: 2011, IEC 60079-7: 2015, IEC 60079-11: 2011, IEC 60079-31: 2013 Standards: Ambient Temp.: See "ambient temperature range" table Degree of protection:

CERTIFICATION DATA OF ENVELOPE OF CONTROL, MONITORING AND SIGNALING UNITS:





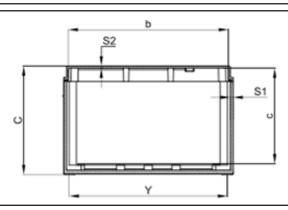




SELECTION OF THE HOUSING:

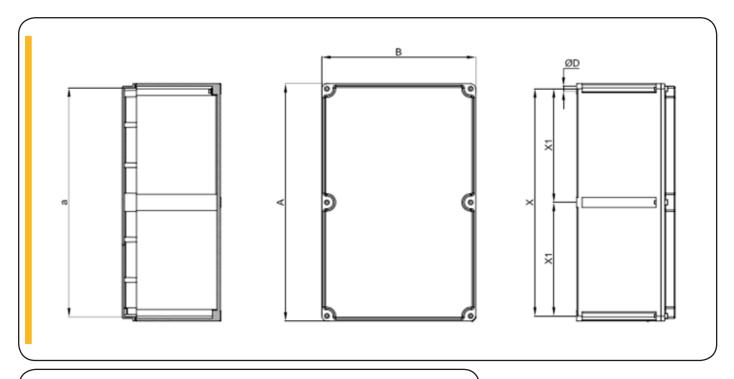
Code	Extern	al dime	ensions		Inne	r dimen	sions			Fi	xing		Weight
	A	В	C	а	b	C	S1	S2	X	Y	X1	ØD	Kg
SA090907	90	90	73	84	84	54	3	2.5	74	74		6.5	0.40
SA111108	110	110	83	104	104	64	3	2.5	94	94	-	6.5	0.50
SAG111108	110	110	83	96	96	64	7	2.5	94	94		6.5	0.75
SA171108	170	110	83	164	104	65	3	2.5	154	94		6.5	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	8	27.0











THREAD COMPARISON CHART:

D Thread diameter	01	1	2	3	4	5	6	7	8
IS0228	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

In accordance with the current standard, trousers can be treated by Cortem or by partners with a production notice in accordance with the ATEX directive.



APPLICATION SECTORS:



Oil refineries Chemical and



petrochemical plants



Onshore plants



Offshore plants



temperatures



Fuel depots





Ships and shipbuilding

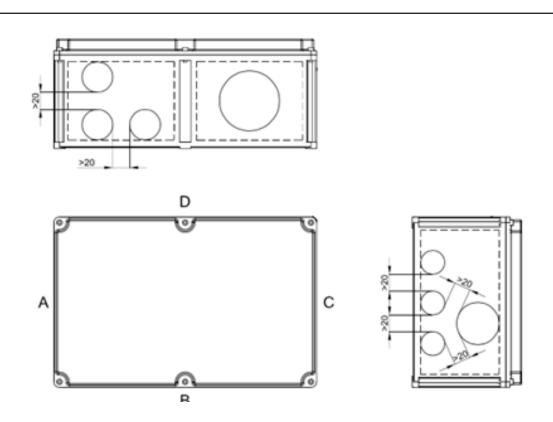
100% Cortem product





DRILLING HOLES IN THE BODY:

								HOI	E DI	RILLII	NG IN BOD	Υ								
TYPE OF				Sides	A an	d C							Sides B and D							
ENCLOSURE	Drilling	N	IAXIN	MUN	QUAN	ITITY	PER	HOLI	TYP	E	Drilling	N	IAXII	MUN	QUAN	ITITY	PER	HOLI	E TYP	Έ
	area mm	01	1	2	3	4	5	6	7	8	area mm	01	1	2	3	4	5	6	7	8
SA090907	48x45	1	1	1	-	-		-		-	48x45				Sq	uare l	oox			
SA/SAG111108	58x55	3	2	1	1	-	-	-		-	58x55				Sq	uare l	box			
SA/SAG171108	68x55	3	2	1	1	-	-	-		-	128x55	5 5 3 2 2 2				-				
SA/SAG141410	100x65	6	6	3	2	1	-	-		-	100x65	Square box								
SA202012	145x75	8	7	6	3	2	1	-		-	145x75				Sq	uare l	box			
SA/SAG301410	90x65	6	4	3	1	1	1	-		-	250x65	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	6	3	2	1	380x140	36	36	24	18	12	12	4	4	2
SAG623018	250x140	24	24	18	14	8	6	3	3	2	525x140	48 48 36 28 16 12 6 4		4	4					
SAG606018	420x130	40	40	30	25	12	12	4	4	4	420x130	35 35 26 16 10 10 4 4			4					



All enclosures can be equipped with accessories of your choice and mounted on special rails attached to the internal mounting frames of the housing. The terminal blocks can be arranged in different ways, according to the customer's specifications and always within the limits allowed by the certificate. The options are vertical, horizontal, on a number of rows or on different levels using appropriate spacers.





ELECTRICAL SPECIFICATIONS:

		Signal circuits applications						
	Standard applications	T6/T75°C max. Tamb +60°C	T4/T100°C max. Tamb +85°C					
Rated voltage:	1000 Vac/dc							
Rated current:	312 A	1 A for exec. Ex eb 100 mA for exec. Ex ia	10 A for exec. Ex eb 100 mA for exec. Ex ia					
Rated frequency:	50/60 Hz							
Terminal section:	1.5 ÷ 300 mm ²							

Marking	Terminal type	Description
Ex II 2GD Ex eb IIC T Gb - Ex tb IIIC T Db IP66	Ex e terminals only	Enclosures containing an increase in security terminals to 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 an increase in security and intrinsically safe terminals
Ex II 2GD Ex eb ia IIC T Gb - Ex tb ia IIIC T Db IP66	Ex i terminals only	Intrinsically safe enclosures. Terminals according to EN 60079-11. The speakers are still category 2

MAXIMUM NUMBER OF LOGIS TERMINALS:

					MA	XIMU	M NU	MBER (OF TER/	MINALS	HOUS	SED				
TYPE OF ENCLOSURE						TE	RMINA	L CROSS	S-SECTION	ONAL AF	EA					
	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	-

Nominal X-sect. area (mm²)	Current (A)	Quantity	Capacity
2,5	8	16 (di 46)	34,8%
4	11	12 (di 36)	33,3%
10	26	4 (di 13)	30,8%
		Total	98,9% <100%

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