

CEEx

CONTROL STATIONS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES [STAINLESS STEEL AND CARBON STEEL]

PROTECTION: Ex e – Ex i – Ex tb

ZONES: 1 and 2 – 21 and 22

GROUPS: IIC – IIIC

TEMP. CLASS GASES AND VAPORS: T6 – T5 – T4

CLASS COMBUSTIBLE DUSTS: T85°C - T135°C

EPL: Ga – Gb – Db

DEGREE OF PROTECTION: IP66

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0 | ABNT NBR IEC 60079-7

ABNT NBR IEC 60079-11 | ABNT NBR IEC 60079-31



TECHNICAL SPECIFICATIONS

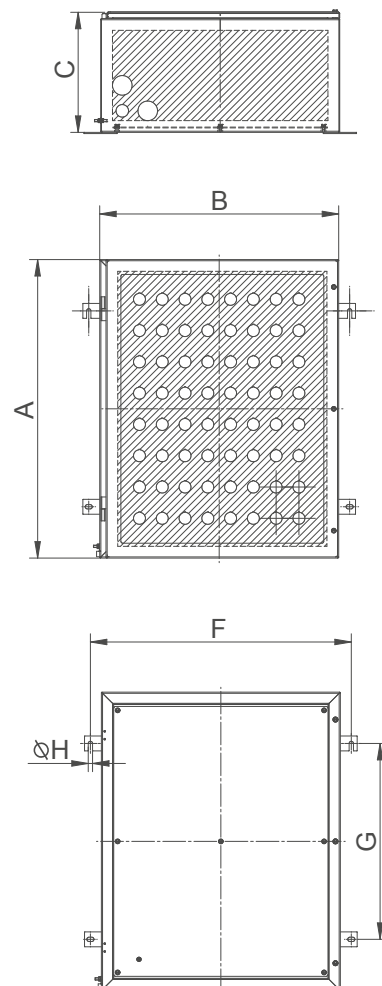
- Control stations with **Ex e** (increased safety), **Ex i** (intrinsically safe), and **Ex tb** (combustible dust) protection for installation in potentially explosive atmospheres.
- Made in **stainless steel (304, 316, or 316L) or carbon steel**.
- **1/2" to 4" (NPT or BSP) M12 to M90** inlets.
* The holes are placed according to the customer specifications.
- Sealing junction to ensure degree of protection.
- Control stations may be supplied with **hinges** and **flanges**.
- **Stainless steel** grounding connectors.
- Control stations may be supplied with terminals, actuating and signaling controls, ammeters, voltmeters, circuit breakers, gauges, relays, proximity sensors, insulating barriers, zener barriers, signal conditioners, digital and analog transponders, digital and analog drivers, speed monitor, signal converters, and movement monitors, amongst others, all **certified** for potentially **explosive atmospheres** in **compliance with SBAC** (Brazilian Conformity Assessment System).

HOW TO REQUEST

Send and request the project to Tramontina with the required components and internal circuits features.

TECHNICAL INFORMATION

MODEL	EXTERNAL DIMENSIONS [mm]			MOUNTING [mm]		
	A	B	C	F	G	H (Ø)
CEEx-1-S*	120	120	95	152	85	8,2
CEEx-2-S*	180	120	95	152	140	8,2
CEEx-3-S*	180	180	95	212	140	8,2
CEEx-4-S*	260	220	150	247	220	8,2
CEEx-5-S*	300	300	210	327	260	8,2
CEEx-6-S*	380	220	210	247	340	8,2
CEEx-7-S*	380	260	210	287	340	8,2
CEEx-8-S*	380	300	165	327	240	11
CEEx-9-S*	380	380	210	436	220	11
CEEx-10-S*	400	330	210	386	240	11
CEEx-11-S*	455	380	210	436	295	11
CEEx-12-S*	500	420	210	476	338	11
CEEx-13-S*	600	380	210	436	338	11
CEEx-14-S*	600	600	210	656	338	11
CEEx-15-S*	762	380	210	436	500	11
CEEx-16-S*	762	610	210	666	500	11
CEEx-17-S*	762	610	305	666	500	11
CEEx 35.00 22 09	200	250	97	194	230	10,2
CEEx 35.00 22 15	200	250	157	194	230	10,2
CEEx 35.00 32 09	350	250	97	194	380	10,2
CEEx 35.00 33 16	300	300	167	244	330	10,2
CEEx 35.00 44 16	380	380	167	324	410	10,2
CEEx 35.00 44 21	380	380	217	324	410	10,2
CEEx 35.00 53 16	500	300	167	244	530	10,2
CEEx 35.00 63 16	600	300	167	244	630	10,2
CEEx 35.00 64 21	600	300	217	324	630	10,2
CEEx 35.10 10 06	100	100	61	43,5	130	10,2
CEEx 35.15 10 06	150	100	61	43,5	180	10,2
CEEx 35.15 15 08	150	150	81	93,5	180	10,2
CEEx 35.20 10 06	200	100	61	43,3	230	10,2
CEEx 35.20 20 08	200	200	81	143,5	230	10,2
CEEx 35.20 20 12	200	200	121	143,5	230	10,2
CEEx 35.30 15 08	300	150	81	93,5	330	10,2
CEEx 35.30 20 08	300	200	81	143,5	330	10,2
CEEx 35.30 20 12	300	200	121	143,5	330	10,2
CEEx 35.30 30 12	300	300	121	243,5	330	10,2
CEEx 35.30 30 16	300	300	161	243,5	330	10,2
CEEx 35.38 38 16	380	380	161	323,5	410	10,2
CEEx 35.40 15 08	400	150	81	93,5	430	10,2
CEEx 35.40 20 12	400	200	121	143,5	430	10,2
CEEx 35.40 30 16	400	300	161	243,5	430	10,2
CEEx 35.50 30 16	500	300	161	243,5	530	10,2
CEEx 35.50 40 16	500	400	161	343,5	530	10,2
CEEx 35.60 20 12	600	200	121	243,5	630	10,2
CEEx 35.06 02 00	260	260	205	please consult		11
CEEx 35.06 03 00	306	306	205			11
CEEx 35.06 04 00	380	260	205			11
CEEx 35.06 05 00	458	382	205			11
CEEx 35.06 06 00	480	480	205			11
CEEx 35.06 07 00	500	350	205			11
CEEx 35.06 08 00	620	450	205			11
CEEx 35.06 09 00	740	550	205			11
CEEx 35.06 10 00	762	508	205			11
CEEx 35.06 11 00	860	640	205			11
CEEx 35.06 12 00	914	610	205			11
CEEx 35.06 13 00	980	740	205			11



* Boxes made in stainless steel (304, 316, or 316L) or carbon steel. Other models in stainless steel only.

THREADED ENTRIES

Placement of entries is defined by the client specifications.

MODEL	LARGER SIDE ENTRY										SMALLER SIDE ENTRY									
	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90
CEEx-1-S			8	2	2	2	1						8	2	2	1	1			
CEEx-2-S			6	3	3	2	1						8	2	2	1	1			
CEEx-3-S			6	3	2	2	1						6	3	2	1				
CEEx-4-S			10	8	4	3	2	2	1				8	6	4	2	2	1	1	
CEEx-5-S			18	15	8	6	3	2	2	1			18	15	8	3	2	2	1	
CEEx-6-S			24	18	10	8	4	3	2	2			12	9	6	4	2	1	1	
CEEx-7-S			24	18	10	8	4	3	2	2			15	12	6	6	3	2	1	
CEEx-8-S			24	18	10	8	4	3	2	2			18	10	8	4	2	2	2	
CEEx-9-S			24	18	10	8	4	3	2	2			24	18	10	4	3	2	2	
CEEx-10-S			27	21	12	8	5	3	2	2			21	15	9	6	4	2	2	2
CEEx-11-S			30	24	12	10	5	3	3	2			24	18	10	8	4	3	2	2
CEEx-12-S			33	27	14	12	6	3	3	2			27	21	12	10	5	3	3	2
CEEx-13-S			42	33	18	14	8	4	4	3			24	18	10	8	4	3	2	2
CEEx-14-S			42	33	18	14	8	4	4	3			42	33	18	8	4	4	3	
CEEx-15-S			51	42	22	18	10	6	5	4			24	18	10	8	4	3	2	2
CEEx-16-S			51	42	22	18	10	6	5	4			42	33	18	14	7	4	4	3
CEEx-17-S			102	70	44	27	15	12	10	5			84	55	36	21	12	8	8	4
CEEx 35.00 22 09	38	20	12	5	3	3					36	17	8	6						
CEEx 35.00 22 15	76	35	30	12	8	6	3	3			75	36	30	15	8	5	3	3		
CEEx 35.00 32 09	74	24	24	11	7	5					36	17	8	6						
CEEx 35.00 33 16	110	55	48	23	15	8	7	5			88	52	38	21	11	8	5	4		
CEEx 35.00 44 16	160	70	60	27	21	12	9	7			140	56	48	27	14	10	6	5		
CEEx 35.00 44 21	220	98	84	45	28	18	12	9			200	84	72	36	21	14	9	8		
CEEx 35.00 53 16	216	92	85	36	26	14	12	9			88	52	38	21	11	8	5	4		
CEEx 35.00 63 16	231	115	100	45	33	17	16	11			88	52	38	21	11	8	5	4		
CEEx 35.00 64 21	330	176	140	75	44	27	20	15			200	84	72	36	21	14	9	8		
CEEx 35.10 10 06	6	2	2								4									
CEEx 35.15 10 06	11	4	3								4									
CEEx 35.15 15 08	15	8	6	3	2						12	5	4	3						
CEEx 35.20 10 06	16	6	5								4									
CEEx 35.20 20 08	24	12	10	4	3						18	7	6	4						
CEEx 35.20 20 12	48	22	16	8	5	2	2	2			45	20	18	8	4	2	2	2		
CEEx 35.30 15 08	42	20	17	7	5						12	6	4	3						
CEEx 35.30 20 08	42	20	17	7	5						18	7	6	4						
CEEx 35.30 20 12	84	38	28	14	9	4	3	3			45	20	18	8	4	2	2	2		
CEEx 35.30 30 12	84	38	28	14	9	4	3	3			75	32	27	14	7	4	3	3		
CEEx 35.30 30 16	112	54	45	22	14	8	6	5			120	50	45	21	12	8	6	4		
CEEx 35.38 38 16	152	75	58	30	18	10	8	6			152	65	58	27	17	10	8	5		
CEEx 35.40 15 08	57	29	24	9	7						12	6	4	3						
CEEx 35.40 20 12	120	52	40	20	13	6	5	4			45	20	18	8	4	2	2	2		
CEEx 35.40 30 16	160	102	60	32	20	11	9	7			120	50	45	21	12	8	6	4		
CEEx 35.50 30 16	208	102	80	42	28	14	12	9			120	50	45	21	12	8	6	4		
CEEx 35.50 40 16	208	102	80	42	28	14	12	9			164	70	63	28	18	12	8	6		
CEEx 35.60 20 12	192	64	64	32	22	10	8	7			45	20	18	8	4	2	2	2		
CEEx 35.06 02 00	98	43	34	18	10	6	4	4			75	34	25	13	7	4	4	2		
CEEx 35.06 03 00	125	58	43	24	13	8	6	6			98	43	34	18	10	6	4	4		
CEEx 35.06 04 00	98	43	34	18	10	6	4	4			125	58	43	24	13	8	6	6		
CEEx 35.06 05 00	147	67	53	28	16	8	8	6			179	79	63	34	19	9	8	8		
CEEx 35.06 06 00	201	91	70	38	22	12	10	8			179	79	63	34	19	9	8	8		
CEEx 35.06 07 00	147	67	53	28	16	8	8	6			201	91	70	38	22	12	10	8		
CEEx 35.06 08 00	201	91	70	38	22	12	10	8			255	115	88	48	28	16	14	12		
CEEx 35.06 09 00	255	115	88	48	28	16	14	12			323	148	113	62	37	20	18	14		
CEEx 35.06 10 00	201	91	70	38	22	12	10	8			323	148	113	62	37	20	18	14		
CEEx 35.06 11 00	250	116	86	48	26	16	12	12			358	158	126	68	38	18	16	16		
CEEx 35.06 12 00	250	116	86	48	26	16	12	12			358	158	126	68	38	18	16	16		
CEEx 35.06 13 00	294	134	106	56	32	16	16	12			402	182	140	76	44	24	20	16		

TERMINALS

Maximum number of terminals on each box.

		TERMINALS														
MODEL	SECTION (mm²)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
CEEx-1-S	MAXIMUM QUANTITY OF TERMINALS	21	19	16												
CEEx-2-S		25	20	20	15	12	10									
CEEx-3-S		60	44	40	36	22	18		9							
CEEx-4-S		86	80	70	56	44	18		14							
CEEx-5-S		106	100	90	68	54	22		15	12						
CEEx-6-S		67	62	56	42	34	28		21	16						
CEEx-7-S		67	62	56	42	34	28		21	16						
CEEx-8-S		180	174	150	111	90	50		27	30	28					
CEEx-9-S		180	174	150	111	90	70		27	30	28	12				
CEEx-10-S		186	180	156	117	96	70		27	32	30	12				
CEEx-11-S		216	213	183	138	103	70		27	36	34	30				
CEEx-12-S		492	486	255	185	103	70		27	42	40	34				
CEEx-13-S		390	315	250	182	100	70		27	54	48	44				
CEEx-14-S		606	390	240	176	100	70		27	104	75	63				
CEEx-15-S		396	390	237	176	100	69		27	34	33	27				
CEEx-16-S		680	390	230	170	100	69		27	136	99	75				
CEEx-17-S		680	370	230	170	100	69		27	136	99	75				
CEEx 35.00 22 09		76	60	50	38	24	13	10	10							
CEEx 35.00 22 15		76	60	50	38	24	13	10	10							
CEEx 35.00 32 09		150	125	100	74	36	30	20	20							
CEEx 35.00 33 16		126	102	87	63	51	40	16	16	12						
CEEx 35.00 44 16		240	195	162	123	99	81	44	44	17	13	13				
CEEx 35.00 44 21		240	195	162	123	99	81	44	44	17	13	13				
CEEx 35.00 53 16		214	172	144	108	88	72	29	29	26	18	18				
CEEx 35.00 63 16		260	210	176	134	106	90	36	36	27	22	22				
CEEx 35.00 64 21		393	318	267	201	162	135	72	72	27	22	22				
CEEx 35.10 10 06		11	11	7	7											
CEEx 35.15 10 06		20	20	16	12											
CEEx 35.15 15 08		24	20	16	12	10	8									
CEEx 35.20 10 06		30	30	24	18											
CEEx 35.20 20 08		76	60	50	38	30	13									
CEEx 35.20 20 12		76	60	50	38	30	13	10	10							
CEEx 35.30 15 08		61	50	41	31	25	21									
CEEx 35.30 20 08	120	96	80	60	24	20										
CEEx 35.30 20 12	120	96	80	60	24	20	16	16								
CEEx 35.30 30 12	120	96	80	60	48	20	16	16	12							
CEEx 35.30 30 16	126	102	87	63	51	40	16	16	12							
CEEx 35.38 38 16	240	195	162	123	99	81	44	44	17	13	13					
CEEx 35.40 15 08	85	69	58	43	35	29										
CEEx 35.40 20 12	172	138	116	88	70	29	23	23	18							
CEEx 35.40 30 16	172	138	116	88	70	29	23	23	18	14	14					
CEEx 35.50 30 16	214	172	144	108	88	72	29	29	26	18	18					
CEEx 35.50 40 16	425	345	290	215	140	87	46	46	36	14	14	11	11			
CEEx 35.60 20 12	262	212	178	134	54	45	36	36	27							
CEEx 35.06 02 00	99	81	66	51	26	22	9	9	7	5						
CEEx 35.06 03 00	176	144	90	66	54	30	12	12	9	7	7					
CEEx 35.06 04 00	186	150	126	93	52	42	18	18	13	5	5	4				
CEEx 35.06 05 00	400	325	252	192	132	84	44	44	26	13	13	8	8	7	7	
CEEx 35.06 06 00	602	483	348	264	175	116	69	69	36	14	14	11	11	10	10	
CEEx 35.06 07 00	450	365	244	184	111	93	50	50	22	15	15	7	7	6	6	
CEEx 35.06 08 00	714	576	424	320	196	164	84	84	50	26	26	16	16	13	13	
CEEx 35.06 09 00	1184	952	700	525	300	250	120	120	63	34	34	20	20	17	17	
CEEx 35.06 10 00	1071	861	620	470	315	217	126	126	64	30	30	20	20	17	17	
CEEx 35.06 11 00	1612	1300	952	720	459	360	192	192	111	60	60	32	32	28	28	
CEEx 35.06 12 00	1701	1377	1024	776	468	325	208	208	117	62	62	30	30	26	26	
CEEx 35.06 13 00	2255	1815	1300	975	600	490	240	240	155	72	72	40	40	34	34	

Note: For terminal configurations with different sections, please consult Tramontina.

CEEx

CONTROL STATIONS FOR EXPLOSIVE ATMOSPHERES [POLYESTER]

PROTECTION: Ex e – Ex i – Ex tb

ZONES: 1 and 2 – 21 and 22

GROUPS: IIC – IIIC

TEMP. CLASS GASES AND VAPORS: – T4

CLASS COMBUSTIBLE DUSTS: T85 °C - T135°C

EPL: Gb – Db

DEGREE OF PROTECTION: IP66

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0 | ABNT NBR IEC 60079-7

ABNT NBR IEC 60079-11 | ABNT NBR IEC 60079-31



TECHNICAL SPECIFICATIONS

- Control stations with **Ex e** (increased safety), **Ex i** (intrinsically safe), and **Ex tb** (combustible dust) protection for installation in potentially explosive atmospheres.
- Made in **polyester** reinforced with fiberglass.
- **M12 to M63** entries. Placement of holes according to the customer specifications.
- Sealing junction to ensure degree of protection.
- **Stainless steel** grounding connectors.
- Control stations may be supplied with terminals, actuating and signaling controls, ammeters, voltmeters, circuit breakers, gauges, relays, proximitors, insulating barriers, zener barriers, signal conditioners, digital and analog transponders, digital and analog drivers, speed monitors, signal converters, and movement monitors, amongst others, all **certified for potentially explosive atmospheres in compliance with SBAC** (Brazilian Conformity Assessment System).

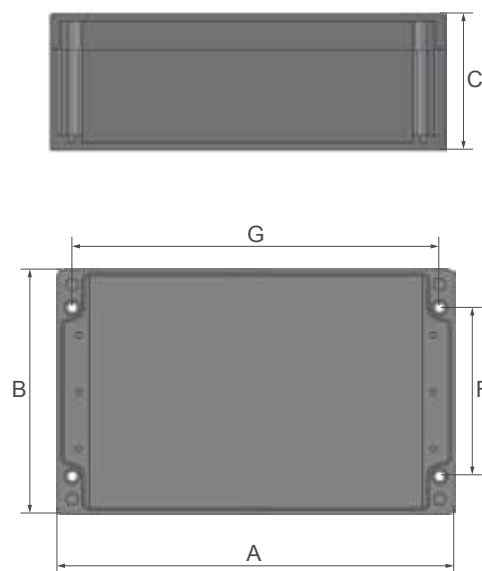


HOW TO REQUEST

Send or request project to Tramontina with required components and internal strength and control circuits features.

TECHNICAL INFORMATION

MODEL	EXTERNAL DIMENSIONS [mm]			MOUNTING [mm]	
	A	B	C	F	G
CEEx 06.08 08 06	80	75	56	45	68
CEEx 06.08 08 08	80	75	75	45	68
CEEx 06.08 11 06	110	75	56	45	98
CEEx 06.08 11 08	110	75	75	45	98
CEEx 06.08 16 06	160	75	56	45	148
CEEx 06.08 16 08	160	75	75	45	148
CEEx 06.08 19 06	190	75	56	45	178
CEEx 06.08 19 08	190	75	75	45	178
CEEx 06.08 23 06	230	75	56	45	218
CEEx 06.08 23 08	230	75	75	45	218
CEEx 06.12 12 09	122	120	91	82	106
CEEx 06.12 22 09	220	120	91	82	204
CEEx 06.16 16 09	160	160	91	110	140
CEEx 06.16 26 09	260	160	91	110	240
CEEx 06.16 36 09	360	160	91	110	340
CEEx 06.16 56 09	560	160	91	110	540
CEEx 06.25 26 12	255	250	121	200	235
CEEx 06.25 26 16	255	250	161	200	235
CEEx 06.25 40 12	400	250	121	200	380
CEEx 06.25 40 16	400	250	161	200	380
CEEx 06.25 60 12	600	250	121	200	580
CEEx 06.36 36 09	360	360	91	310	340
CEEx 06.41 40 12	400	405	121	355	380
CEEx 06.41 40 20	400	405	201	355	380
CEEx 06.88 01 00	81	81	75	69	69
CEEx 06.88 02 00	121	121	75	100	100
CEEx 06.88 03 00	161	161	93	140	140
CEEx 06.88 04 00	201	201	121	175	175
CEEx 06.14 01 00	270	170	136	140	240
CEEx 06.14 02 00	270	270	136	240	240
CEEx 06.14 03 00	541	270	136	240	511
CEEx 06.20 20 00	200	200	168	187	135
CEEx 06.20 30 00	300	200	168	187	235
CEEx 06.30 40 00	305	405	202	220	300
CEEx 06.40 60 00	405	605	252	320	500
CEEx 06.01 22 15	177	177	145	154	152,5
CEEx 06.01 24 15	360	177	145	154	335,5
CEEx 06.01 44 15	360	360	145	337	335,5



THREADED ENTRIES

Placement of entries is defined by the client specifications.

MODEL	LARGER SIDE ENTRY								SMALLER SIDE ENTRY							
	M12	M16	M20	M25	M32	M40	M50	M63	M12	M16	M20	M25	M32	M40	M50	M63
CEEx 06.08 08 06	6	2	2	1					3	1	1					
CEEx 06.08 08 08	9	5	4	1	1				5	2	2	1	1			
CEEx 06.08 11 06	6	3	2	1					3	1	1					
CEEx 06.08 11 08	15	6	6	2	2				5	2	1	1	1			
CEEx 06.08 16 06	12	5	4	3					3	1	1					
CEEx 06.08 16 08	18	8	8	3	2				5	2	2	1	1			
CEEx 06.08 19 06	16	7	5	4					4	1	1	1				
CEEx 06.08 19 08	28	12	12	5	3				6	2	2	1	1			
CEEx 06.08 23 06	22	10	8	4					3	1	1	1				
CEEx 06.08 23 08	30	16	12	6	4				6	2	2	1	1			
CEEx 06.12 12 09	12	5	4	2	1	1			12	5	4	2	1	1		
CEEx 06.12 22 09	32	14	12	6	3	2			12	5	4	2	1	1		
CEEx 06.16 16 09	26	14	9	6	3	2	2		18	8	6	3	2	1	1	
CEEx 06.16 26 09	50	26	17	11	5	3	3		16	8	6	3	2	1		
CEEx 06.16 36 09	72	38	26	16	7	5	4		18	8	6	3	2	1	1	
CEEx 06.16 56 09	112	58	40	24	12	8	6		18	8	6	3	2	1	1	
CEEx 06.25 26 12	69	32	24	12	8	4	3	3	51	24	18	10	7	3	3	2
CEEx 06.25 26 16	69	32	24	12	8	4	3	3	52	24	18	10	7	3	3	2
CEEx 06.25 40 12	117	56	42	21	14	7	5	5	50	22	18	10	6	3	2	2
CEEx 06.25 40 16	117	56	42	21	14	7	5	5	50	24	18	10	7	3	3	2
CEEx 06.25 60 12	108	52	36	30	12	6	4	4	50	24	18	10	7	3	3	2
CEEx 06.36 36 09	72	38	26	16	7	5	4		52	24	20	10	6	5		
CEEx 06.41 40 12	117	56	42	21	14	7	5	5	95	46	36	18	13	6	5	4
CEEx 06.41 40 20	210	98	88	45	28	17	12	9	190	91	77	43	26	15	11	8
CEEx 06.88 01 00	3	1	1						3	1	1					
CEEx 06.88 02 00	8	3	2	1					8	3	2	1				
CEEx 06.88 03 00	15	8	5	2	2				15	8	5	2	2			
CEEx 06.88 04 00	36	16	12	6	4	2	2	1	36	16	12	6	4	2	2	1
CEEx 06.14 01 00	63	28	22	12	8	3	3	2	33	16	12	6	4	2	1	1
CEEx 06.14 02 00	63	28	22	12	8	3	3	2	63	28	22	12	8	3	3	2
CEEx 06.14 03 00	63	28	22	12	8	3	3	2	63	28	22	12	8	3	3	2
CEEx 06.20 20 00	39	18	13	6	5	3	2	1	53	25	20	10	6	4	2	2
CEEx 06.20 30 00	77	38	28	15	9	6	4	3	53	25	20	10	6	4	2	2
CEEx 06.30 40 00	109	48	40	21	12	8	5	4	144	65	54	30	17	12	7	5
CEEx 06.40 60 00	215	102	81	43	26	18	11	10	256	158	123	65	40	27	18	14
CEEx 06.01 22 15	36	16	12	6	4	2	1	1	36	16	12	6	4	2	1	1
CEEx 06.01 24 15	109	50	40	21	12	9	5	4	36	16	12	6	4	2	1	1
CEEx 06.01 44 15	109	50	40	21	12	9	5	4	109	50	40	21	12	9	5	4

TERMINALS

Maximum number of terminals on each box.

		TERMINALS															
MODEL	SECTION (mm²)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	
CEE _x 06.08 08 06	MAXIMUM QUANTITY OF TERMINALS	7	7														
CEE _x 06.08 08 08		8	8	7													
CEE _x 06.08 11 06		13	13														
CEE _x 06.08 11 08		14	14	11													
CEE _x 06.08 16 06		23	23														
CEE _x 06.08 16 08		23	23	20													
CEE _x 06.08 19 06		28	28														
CEE _x 06.08 19 08		29	29	24													
CEE _x 06.08 23 06		36	36														
CEE _x 06.08 23 08		37	37	31													
CEE _x 06.12 12 09		19	15	13	10	8	6										
CEE _x 06.12 22 09		42	34	29	21	17	14										
CEE _x 06.16 16 09		28	23	19	14	11	9	7	7								
CEE _x 06.16 26 09		52	42	35	26	21	18	14	14								
CEE _x 06.16 36 09		76	61	51	39	31	26	21	21								
CEE _x 06.16 56 09		123	100	83	63	50	42	34	34								
CEE _x 06.25 26 12		102	82	68	52	21	17	14	14	10							
CEE _x 06.25 26 16		102	82	68	52	21	17	14	14	10	8						
CEE _x 06.25 40 12		170	138	116	86	35	29	23	23	18							
CEE _x 06.25 40 16		170	138	116	86	35	29	23	23	18	14						
CEE _x 06.25 60 12		266	214	180	136	54	45	36	36	28							
CEE _x 06.36 36 09		288	183	153	78	62	52	42	42								
CEE _x 06.41 40 12		255	207	174	129	70	58	23	23	18							
CEE _x 06.41 40 20		255	207	174	129	70	58	23	23	28	14	14	11	11			
CEE _x 06.88 01 00		8	8														
CEE _x 06.88 02 00		14	12	10	7	6											
CEE _x 06.88 03 00		24	19	16	12	10	8										
CEE _x 06.88 04 00		111	90	75	57	30	24	10	10	7							
CEE _x 06.14 01 00		54	44	37	28	22	18	15	15								
CEE _x 06.14 02 00		108	88	74	56	44	36	30	30								
CEE _x 06.14 03 00		238	192	160	122	98	82	64	64	50	40						
CEE _x 06.20 20 00		35	28	24	18	14	12	9	9								
CEE _x 06.20 30 00		62	50	42	31	25	21	17	17	13							
CEE _x 06.30 40 00		172	140	116	88	70	29	24	24	18	14	14	11	11			
CEE _x 06.40 60 00		402	324	273	136	110	92	37	37	28	22	22	18	18	10	10	
CEE _x 06.01 22 15		23	18	15	11	9	7	6	6								
CEE _x 06.01 24 15		66	53	45	34	27	22	18	18								
CEE _x 06.01 44 15		264	212	135	102	81	44	36	36	28	11	11					

CEEx

CONTROL STATIONS FOR EXPLOSIVE ATMOSPHERES [ALUMINUM]

PROTECTION: Ex e – Ex i – Ex tb

ZONES: 1 and 2 – 21 and 22

GROUPS: IIC – IIIC

TEMP. CLASS GASES AND VAPORS: T6 – T5 – T4

CLASS COMBUSTIBLE DUSTS: T85 °C

EPL: Gb – Db

DEGREE OF PROTECTION: IP66

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0 | ABNT NBR IEC 60079-7

ABNT NBR IEC 60079-11 | ABNT NBR IEC 60079-31



TECHNICAL SPECIFICATIONS

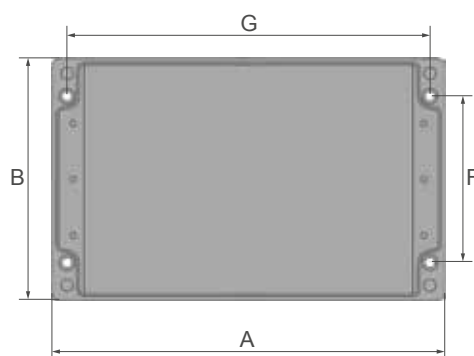
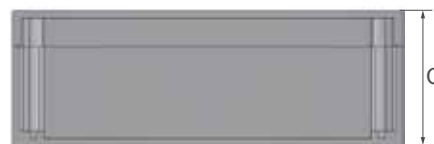
- Control stations with **Ex e** (increased safety), **Ex i** (intrinsically safe), and **Ex tb** (combustible dust) protection for installation in potentially explosive atmospheres.
- Made in aluminum alloy.
- **M12 to M63** entries.
* The holes are placed according to the customer specifications.
- Sealing junction to ensure degree of protection.
- Stainless steel grounding connectors.
- Boxes may be supplied with terminals, actuating and signaling controls, ammeters, voltmeters, circuit breakers, gauges, relays, proximitors, insulating barriers, zener barriers, signal conditioners, digital and analog transponders, digital and analog drivers, speed monitor, signal converters, and movement monitors, amongst others, all **certified for potentially explosive atmospheres in compliance with SBAC** (Brazilian Conformity Assessment System).

HOW TO REQUEST

Send or request project to Tramontina with required components and internal control circuits features.

TECHNICAL INFORMATION

MODEL	EXTERNAL DIMENSIONS [mm]			MOUNTING [mm]	
	A	B	C	F	G
CEEx 05.06 06 03	58	64	34	36	46
CEEx 05.06 10 03	98	64	34	36	86
CEEx 05.06 15 03	150	64	34	36	138
CEEx 05.08 08 06	75	80	57	52	63
CEEx 05.08 13 06	125	80	57	52	113
CEEx 05.08 18 06	175	80	57	52	163
CEEx 05.08 25 05	250	80	52	52	238
CEEx 05.10 10 08	100	100	81	66	86
CEEx 05.10 16 08	160	100	81	66	146
CEEx 05.10 20 08	200	100	81	66	186
CEEx 05.12 12 08	122	120	81	82	106
CEEx 05.12 12 09	122	120	91	82	106
CEEx 05.12 22 08	220	120	81	82	204
CEEx 05.12 22 09	220	120	91	82	204
CEEx 05.12 36 08	360	120	81	82	344
CEEx 05.14 14 09	140	140	91	93	120
CEEx 05.14 20 09	200	140	91	93	180
CEEx 05.16 16 09	160	160	91	110	140
CEEx 05.16 26 09	260	160	91	110	240
CEEx 05.16 36 09	360	160	91	110	340
CEEx 05.16 56 09	560	160	91	110	540
CEEx 05.18 18 10	180	180	101	130	160
CEEx 05.18 28 10	280	180	101	130	260
CEEx 05.23 10 11	100	230	111	80	180
CEEx 05.23 20 11	202	232	111	180	180
CEEx 05.23 20 18	202	232	181	180	180
CEEx 05.23 28 11	280	230	111	180	260
CEEx 05.23 33 11	330	230	111	180	310
CEEx 05.23 33 18	330	230	181	180	310
CEEx 05.23 40 11	400	230	111	180	380
CEEx 05.23 40 23	400	230	225	180	380
CEEx 05.23 60 11	600	230	111	180	580
CEEx 05.31 40 11	404	313	111	262	382
CEEx 05.31 40 14	403	312	141	262	382
CEEx 05.31 40 18	404	313	181	262	382
CEEx 05.31 40 23	404	313	227	262	382
CEEx 05.31 60 11	600	310	111	260	580
CEEx 05.31 60 18	600	310	181	260	580
CEEx 05.60 60 20	600	600	202	525	555



THREADED ENTRIES

Placement of entries is defined by the client specifications.

MODEL	LARGER SIDE ENTRY								SMALLER SIDE ENTRY							
	M12	M16	M20	M25	M32	M40	M50	M63	M12	M16	M20	M25	M32	M40	M50	M63
CEEX 05.06 06 03	2								1							
CEEX 05.06 10 03	4								1							
CEEX 05.06 15 03	8								1							
CEEX 05.08 08 06	3	1	1	1					5	2	2	1				
CEEX 05.08 13 06	9	4	3	2					5	2	2	1				
CEEX 05.08 18 06	14	6	5	3					5	2	2	1				
CEEX 05.08 25 05	23	9	8	5					6	2	2	1				
CEEX 05.10 10 08	12	6	5	2	1				9	4	3	1	1			
CEEX 05.10 16 08	24	11	10	4	3				9	4	3	1	1			
CEEX 05.10 20 08	32	14	12	5	3				9	4	3	1	1			
CEEX 05.12 12 08	10	5	4	2	1				11	5	4	2	1			
CEEX 05.12 12 09	10	5	4	2	1				11	5	4	2	1			
CEEX 05.12 22 08	30	12	12	5	3				11	6	4	2	1			
CEEX 05.12 22 09	34	15	14	6	4				11	6	4	2	1			
CEEX 05.12 36 08	58	26	24	10	7				11	5	4	2	1			
CEEX 05.14 14 09	18	8	8	3	2				12	6	4	2	1			
CEEX 05.14 20 09	28	12	12	5	3				12	6	4	2	1			
CEEX 05.16 16 09	26	12	9	5	3	2	2		16	8	6	3	2	1		
CEEX 05.16 26 09	50	24	17	10	5	3	3		16	8	6	3	2	1		
CEEX 05.16 36 09	72	36	24	15	7	5	4		16	8	6	3	2	1		
CEEX 05.16 56 09	104	58	40	24	12	8	6		16	8	6	3	2	1		
CEEX 05.18 18 10	30	15	11	6	3	2	2		20	9	8	3	2	2		
CEEX 05.18 28 10	52	26	18	11	5	4	3		22	10	8	4	2	2		
CEEX 05.23 10 11	15	8	6	3	2	1	1		45	18	17	8	5	3	2	2
CEEX 05.23 20 11	45	22	18	8	6	3	2	2	45	18	17	8	5	3	2	2
CEEX 05.23 20 18	90	42	33	18	10	6	5	4	81	36	33	16	9	6	5	4
CEEX 05.23 28 11	70	32	24	12	9	4	3	3	45	18	17	8	5	3	2	2
CEEX 05.23 33 11	84	42	30	15	11	5	4	4	45	18	17	8	5	3	2	2
CEEX 05.23 33 18	165	77	60	30	18	11	8	8	81	36	33	16	9	9	5	4
CEEX 05.23 40 11	103	50	39	20	14	6	5	5	45	18	17	8	5	3	2	2
CEEX 05.23 40 23	240	122	100	54	30	18	15	12	108	48	44	21	13	9	6	5
CEEX 05.23 60 11	150	72	54	28	20	10	8	6	43	18	17	8	4	3	2	2
CEEX 05.31 40 11	105	50	39	20	14	6	5	5	68	28	26	12	7	4	3	3
CEEX 05.31 40 14	147	70	55	28	17	12	7	6	95	43	32	18	10	7	4	3
CEEX 05.31 40 18	205	98	78	40	22	15	11	8	122	54	51	24	15	9	6	6
CEEX 05.31 40 23	246	126	100	54	30	18	15	12	162	72	68	33	20	12	9	8
CEEX 05.31 60 11	150	76	60	30	20	10	8	6	68	28	24	12	7	4	3	3
CEEX 05.31 60 18	270	140	108	56	32	22	16	12	122	54	48	24	15	9	6	6
CEEX 05.60 60 20	270	140	108	56	32	22	16	12	270	140	108	56	32	22	16	12

TERMINALS

Maximum number of terminals on each box.

		TERMINALS															
MODEL	SECTION (mm²)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	
CEEX 05.06 06 03	MAXIMUM QUANTITY OF TERMINALS	3	3														
CEEX 05.06 10 03		6	6														
CEEX 05.06 15 03		10	10														
CEEX 05.08 08 06		6	6	5													
CEEX 05.08 13 06		12	12	9													
CEEX 05.08 18 06		25	25	21													
CEEX 05.08 25 05		40	40	33													
CEEX 05.10 10 08		14	11	9	7												
CEEX 05.10 16 08		28	23	19	14												
CEEX 05.10 20 08		38	30	25	19												
CEEX 05.12 12 08		19	15	13	10	8	6										
CEEX 05.12 12 09		19	15	13	10	8	6										
CEEX 05.12 22 08		42	34	29	21	17	14										
CEEX 05.12 22 09		42	34	29	21	17	14										
CEEX 05.12 36 08		76	61	51	39	31	26										
CEEX 05.14 14 09		23	19	16	12	9	8	6									
CEEX 05.14 20 09		38	30	25	19	15	13	10									
CEEX 05.16 16 09		28	23	19	14	11	9	7	7								
CEEX 05.16 26 09		52	42	35	26	21	18	14	14								
CEEX 05.16 36 09		76	61	51	39	31	26	21	21								
CEEX 05.16 56 09		123	100	83	63	50	42	34	34								
CEEX 05.18 18 10		33	26	22	17	13	11	9	9								
CEEX 05.18 28 10		57	46	38	29	23	19	15	15								
CEEX 05.23 10 11		45	36	30	23												
CEEX 05.23 20 11		76	62	52	38	15	13	10	10								
CEEX 05.23 20 18		76	62	52	38	15	13	10	10	8							
CEEX 05.23 28 11		114	92	76	58	46	19	15	15								
CEEX 05.23 33 11		138	110	92	70	56	23	19	19								
CEEX 05.23 33 18		138	110	92	70	56	23	19	19	14							
CEEX 05.23 40 11		170	138	116	86	70	29	23	23								
CEEX 05.23 40 23		170	138	116	86	70	29	23	23	18							
CEEX 05.23 60 11		266	214	180	136	54	45	36	36								
CEEX 05.31 40 11		258	210	174	132	70	58	23	23								
CEEX 05.31 40 14		258	207	174	132	70	58	23	23	18	14	14					
CEEX 05.31 40 18		258	210	174	132	70	58	23	23	18	14	14					
CEEX 05.31 40 23		258	210	174	132	70	58	23	23	18	14	14					
CEEX 05.31 60 11		399	321	270	204	108	90	36	36								
CEEX 05.31 60 18		399	321	270	204	108	90	36	36	28	22	22					
CEEX 05.60 60 20		532	428	360	204	162	135	108	108	56	22	22	18	18	15	15	

Note 1: The maximum current in the terminals varies according to the specified quantity

Note 2: For terminal configurations with different sections, please consult Tramontina.

CEEx

INCREASED SAFETY JUNCTION BOXES - 521/4 AND 522/4 SERIES

PROTECTION: Ex e

ZONES: 1 and 2

GROUPS: IIC

TEMP. CLASS GASES AND VAPORS: T6

EPL: Ga – Gb

DEGREE OF PROTECTION: IP66

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0

ABNT NBR IEC 60079-7



CEEx 521/4

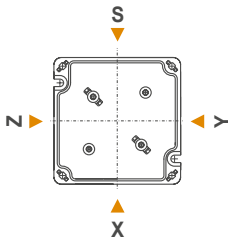
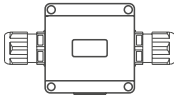
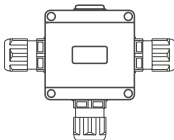
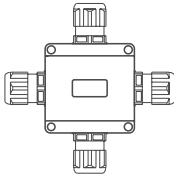
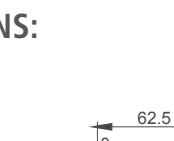
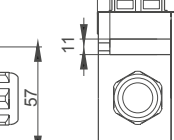
TECHNICAL SPECIFICATIONS

- Junction boxes with **Ex e** (increased safety) protection for installation in potentially explosive atmospheres.
- Made in **polyester** reinforced with **fiberglass**.
- **M20**, **M25**, or **M32** entries.
- Supplied with terminals.

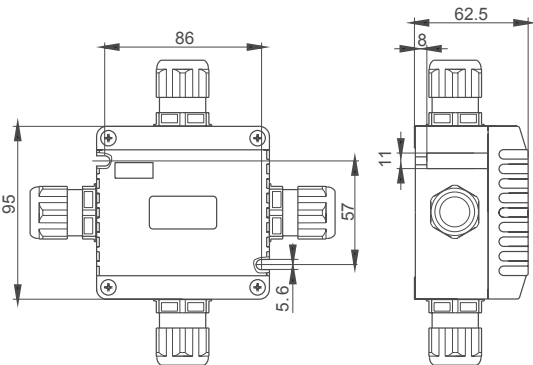


CEEx 522/4

TECHNICAL INFORMATION

PRODUCT	LAYOUT	TYPES OF PROTECTION	QUANTITY CRIMPING RANGE	QUANTITY PLUGS	CODE
					CEEX 521 0000 4000
		Ex e	2 x M20 / Φ 5.5-13 mm	1 x M20	CEEx 521e/4-2120-A64
			2 x M25 / Φ 8-17 mm	1 x M25	CEEx 521e/4-2125-A64
		Ex i	2 x M20 / Φ 5.5-13 mm	1 x M20	CEEx 521i/4-2120-A64
			2 x M25 / Φ 8-17 mm	1 x M25	CEEx 521i/4-2125-A64
		Ex e	3 x M20 / Φ 5.5-13 mm	1 x M20	CEEx 521e/4-3120-A64
			3 x M25 / Φ 8-17 mm	1 x M25	CEEx 521e/4-3125-A64
		Ex i	3 x M20 / Φ 5.5-13 mm	1 x M20	CEEx 521i/4-3120-A64
			3 x M25 / Φ 8-17 mm	1 x M25	CEEx 521i/4-3125-A64
		Ex e	4 x M20 / Φ 5.5-13 mm		CEEx 521e/4-4020-A64
			4 x M25 / Φ 8-17 mm		CEEx 521e/4-4025-A64
		Ex i	4 x M20 / Φ 5.5-13 mm		CEEx 521i/4-4020-A64
			4 x M25 / Φ 8-17 mm		CEEx 521i/4-4025-A64

EXTERNAL DIMENSIONS:



HOW TO REQUEST

CEEx 521 */4 - *** - ***

Box model

Number of terminals

Terminals section
6:6 mm²

Pillartype terminal

Cable crimp thread/plugs
20:M20 / 25:M25

Quantity plugs

Quantity cable crimp

Type of protection e: Ex e

HOW TO REQUEST



Box model

INCREASED SAFETY JUNCTION BOXES - 521/3 AND 522/3 SERIES

PROTECTION: Ex e

ZONES: 1 and 2

GROUPS: IIC

TEMP. CLASS GASES AND VAPORS: T6 ou T5

EPL: Ga – Gb

DEGREE OF PROTECTION: IP66

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0

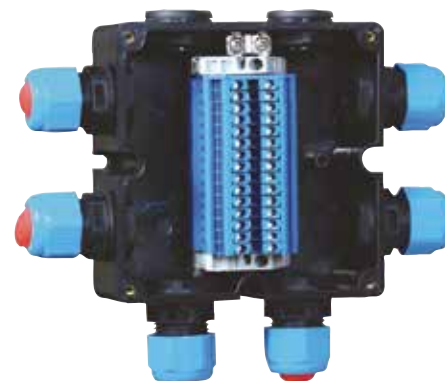
ABNT NBR IEC 60079-7



CEEx 521/3

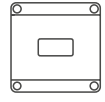
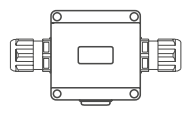
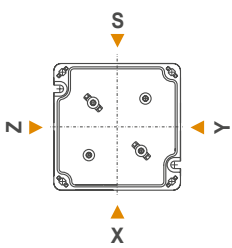
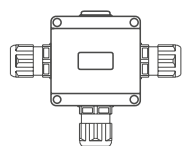
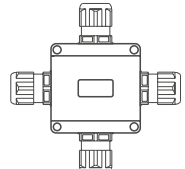
TECHNICAL SPECIFICATIONS

- Box with **Ex e** (increased safety) protection for installation in potentially explosive atmospheres.
- Made in **polyester** reinforced with **fiberglass**.
- **M20, M25, or M32** entries.
- Supplied with terminals.

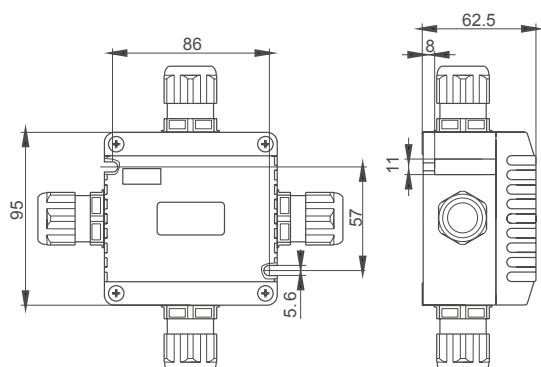


CEEx 522/3

TECHNICAL INFORMATION

PRODUCT	LAYOUT	TYPE OF PROTECTION	TERMINAL MODEL	TERMINAL SECTION	NUMBER OF TERMINALS	QUANTITY OF CABLE CRIMPS CRIMPING RANGE	QUANTITY PLUGS	CODE
								CEEEx 521 0000 3000
		Ex e	C	2,5 mm ²	4	2 x M20 / Ø 5.5-13 mm	1 x M20	CEEEx 521e/3-2120-C24
		Ex i	C	2,5 mm ²	4	2 x M25 / Ø 8-17 mm	1 x M25	CEEEx 521e/3-2125-C24
						2 x M20 / Ø 5.5-13 mm	1 x M20	CEEEx 521i/3-2120-C24
						2 x M25 / Ø 8-17 mm	1 x M25	CEEEx 521i/3-2125-C24
		Ex e	C	2,5 mm ²	4	3 x M20 / Ø 5.5-13 mm	1 x M20	CEEEx 521e/3-3120-C24
		Ex i	C	2,5 mm ²	4	3 x M25 / Ø 8-17 mm	1 x M25	CEEEx 521e/3-3125-C24
						3 x M20 / Ø 5.5-13 mm	1 x M20	CEEEx 521i/3-3120-C24
						3 x M25 / Ø 8-17 mm	1 x M25	CEEEx 521i/3-3125-C24
		Ex e	C	2,5 mm ²	4	4 x M20 / Ø 5.5-13 mm		CEEEx 521e/3-4020-C24
		Ex i	C	2,5 mm ²	4	4 x M25 / Ø 8-17 mm		CEEEx 521e/3-4025-C24
						4 x M20 / Ø 5.5-13 mm		CEEEx 521i/3-4020-C24
						4 x M25 / Ø 8-17 mm		CEEEx 521i/3-4025-C24

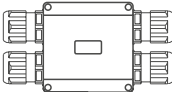
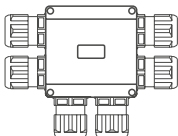
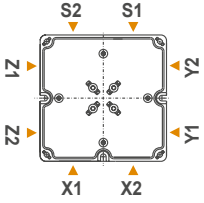
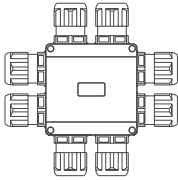
EXTERNAL DIMENSIONS:



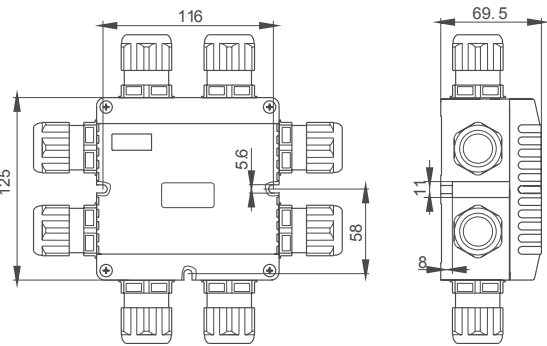
HOW TO REQUEST

CEEEx 521 */3 - * - *****

Box model	Number of terminals	
	Terminals section 1: 1,5 mm ² 2: 2,5 mm ² 6: 6 mm ²	
	Terminals B: [1,5 mm ²] C: Miniatura [2,5 ou 6 mm ²]	
	Cable crimp thread/plugs 20:M20 / 25:M25	
	Quantity plugs	
	Quantity cable crimp	
	Type of protection e: Ex e	

PRODUCT	PRODUCT	TYPE OF PROTECTION	TERMINAL MODEL	TERMINAL SECTION	NUMBER OF TERMINALS	QUANTITY OF CABLE CRIMPS CRIMPING RANGE	CODE
							CEEx 522 0000 3000
		Ex e	C	2,5 mm²	8	4 x M20 / Ø 5.5-13 mm	CEEx 522e/3-4020-A28
						4 x M25 / Ø 8-17 mm	CEEx 522e/3-4025-A28
						4 x M32 / Ø 12-21 mm	CEEx 522e/3-4032-A28
		Ex i				4 x M20 / Ø 5.5-13 mm	CEEx 522i/3-4020-A28
						4 x M25 / Ø 8-17 mm	CEEx 522i/3-4025-A28
						4 x M32 / Ø 12-21 mm	CEEx 522i/3-4032-A28
		Ex e	C	2,5 mm²	8	6 x M20 / Ø 5.5-13 mm	CEEx 522e/3-6020-A28
						6 x M25 / Ø 8-17 mm	CEEx 522e/3-6025-A28
						6 x M32 / Ø 12-21 mm	CEEx 522e/3-6032-A28
		Ex i				6 x M20 / Ø 5.5-13 mm	CEEx 522i/3-6020-A28
						6 x M25 / Ø 8-17 mm	CEEx 522i/3-6025-A28
						6 x M32 / Ø 12-21 mm	CEEx 522i/3-6032-A28
		Ex e	C	2,5 mm²	8	8 x M20 / Ø 5.5-13 mm	CEEx 522e/3-8020-A28
						8 x M25 / Ø 8-17 mm	CEEx 522e/3-8025-A28
						8 x M32 / Ø 12-21 mm	CEEx 522e/3-8032-A28
		Ex i				8 x M20 / Ø 5.5-13 mm	CEEx 522i/3-8020-A28
						8 x M25 / Ø 8-17 mm	CEEx 522i/3-8025-A28
						8 x M32 / Ø 12-21 mm	CEEx 522i/3-8032-A28

EXTERNAL DIMENSIONS:



HOW TO REQUEST

CEEx 522 */3 - *** - ***

Box model

Number of terminals

Terminals section
1: 1,5 mm²
2: 2,5 mm²
6: 6 mm²

Terminals
B: [1,5 mm²]
C: Miniatura [2,5 ou 6 mm²]

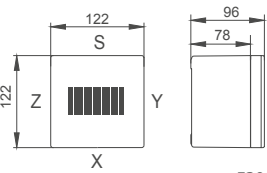
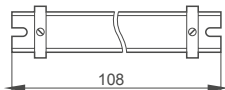
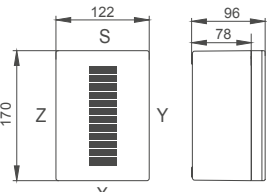
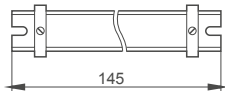
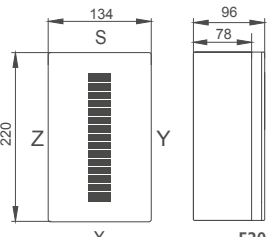
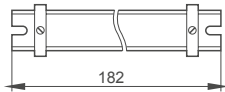
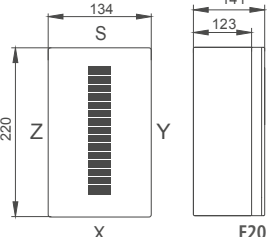
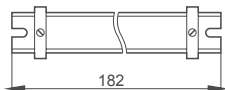
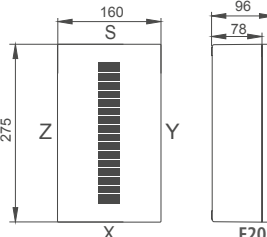
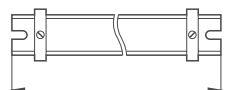
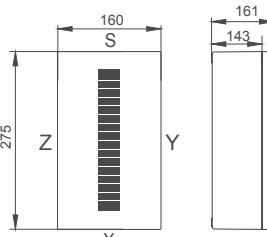
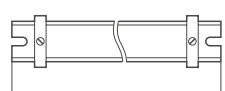
Cable crimp thread/plugs
20:M20 / 25:M25 / 32:M32

Quantity plugs

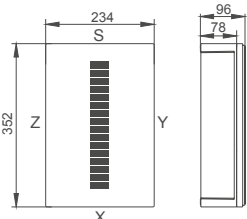
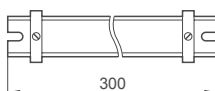
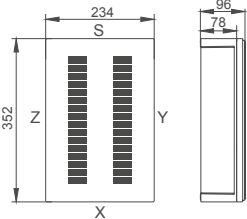
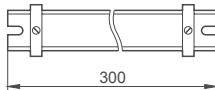
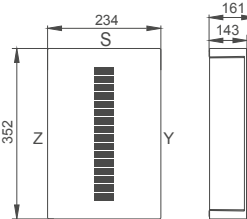
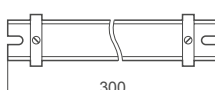
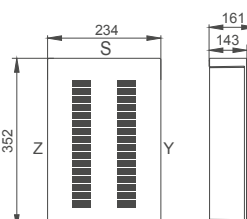
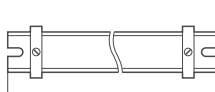
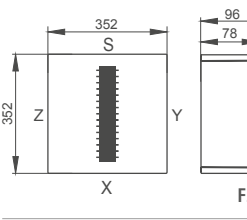
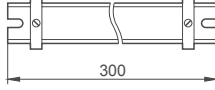
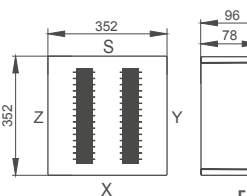
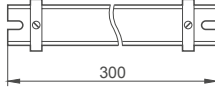
Quantity cable crimp

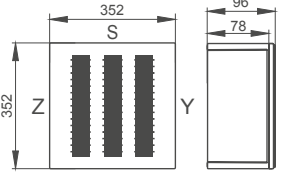
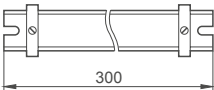
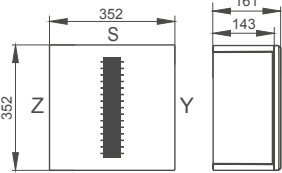
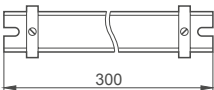
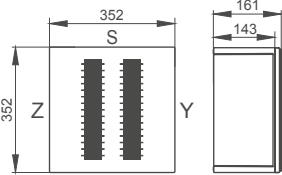
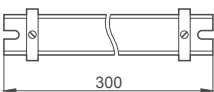
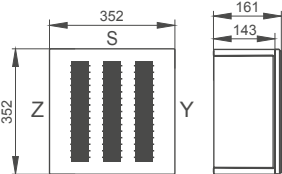
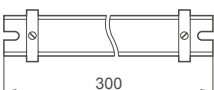
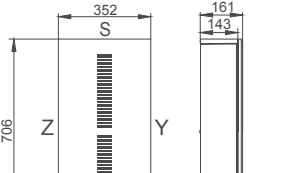
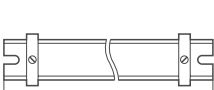
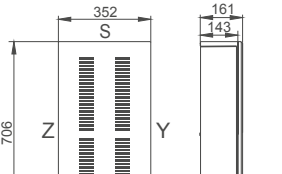
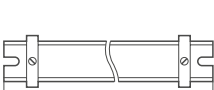
Type of protection e: Ex e / Ex tb

TECHNICAL INFORMATION

BOX MODEL	DIMENSIONS RAIL TS35X7.5	SPECIFICATION AND QUANTITY OF TERMINALS									
		2,5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	50mm ²	95mm ²	150mm ²	240mm ²
 F2001		14	12	10							
 F2011		22	18	12	10	8					
 F2031		26	22	16	12	10	8				
 F2032		26	22	16	12	10	8				
 F2051		40	34	25	20	17	13				
 F2052		40	34	25	20	17	13				

TECHNICAL INFORMATION

BOX MODEL	DIMENSIONS RAIL TS35X7.5	SPECIFICATION AND QUANTITY OF TERMINALS									
		2,5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	50mm ²	95mm ²	150mm ²	240mm ²
 F2071		50	41	31	25	21	18				
 F2071		100	82								
 F2072		50	41	31	25	21	18				
 F2072		100	82								
 F2081		50	41	32	26	22	18				
 F2081		100	82	64	52	44					

BOX MODEL	DIMENSIONS RAIL TS35X7.5	SPECIFICATION AND QUANTITY OF TERMINALS									
		2,5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	50mm ²	95mm ²	150mm ²	240mm ²
 F2081		150	123								
 F2082		50	41	32	26	22	18	12	10	8	7
 F2082		100	82	64	52	44					
 F2082		150	123								
 F2092		100	82	64	52	44	36	24	20	16	14
 F2092		200	164	128	104	88					

TECHNICAL INFORMATION

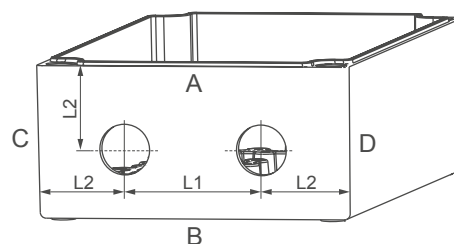
BOX MODEL	DIMENSIONS RAIL TS35X7.5	SPECIFICATION AND QUANTITY OF TERMINALS									
		2,5mm ²	4mm ²	6mm ²	10mm ²	16mm ²²	35mm ²	50mm ²	95mm ²	150mm ²	240mm ²

		300	246								

F2092

MINIMUM DISTANCE BETWEEN L1 CENTERS							
L1 [mm]	M16	M20	M25	M32	M40	M50	M63
M16	24	27	29	33	39	45	51
M20	27	29	32	36	42	48	54
M25	29	32	34	38	44	50	56
M32	33	36	38	42	48	54	60
M40	39	42	44	48	53	60	66
M50	45	48	50	54	60	63	72
M63	51	54	54	60	66	72	77

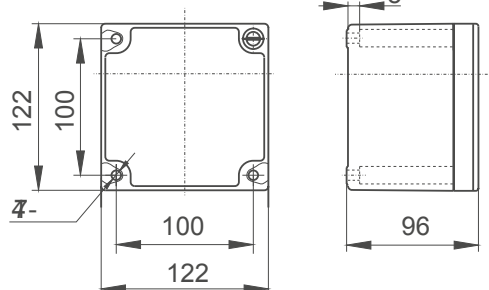
MINIMUM DISTANCE BETWEEN L2 CENTERS AND SIDES							
L2 [mm]	M16	M20	M25	M32	M40	M50	M63
A	13	16	18	22	28	34	40
B	18	21	23	27	33	39	45
C	36	37	41	45	51	57	63
D	36	37	41	45	51	57	63



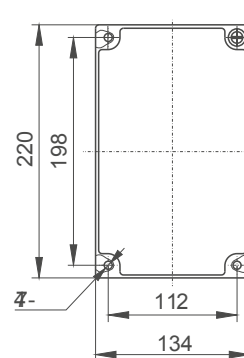
Note: For boxes of models F207, F208, and F209, add 5 mm.

EXTERNAL DIMENSIONS

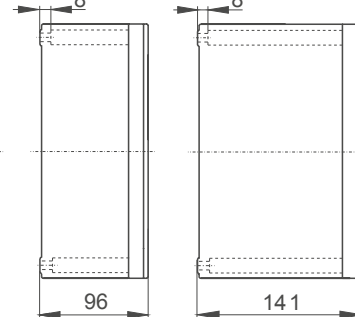
F2001



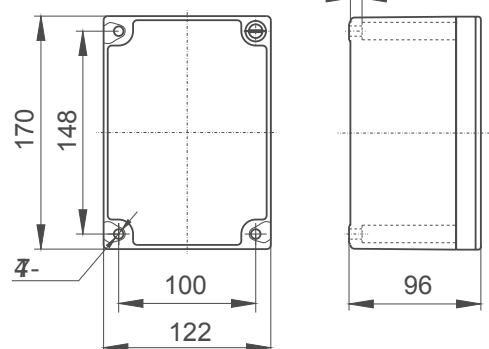
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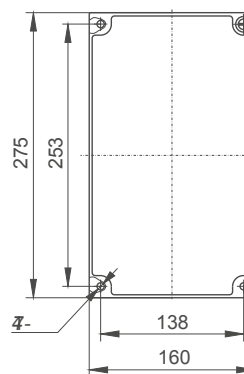
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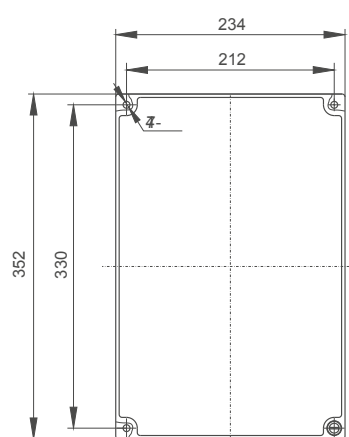
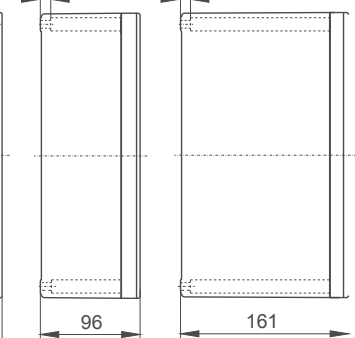
F2011



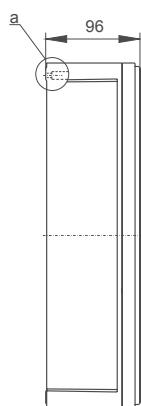
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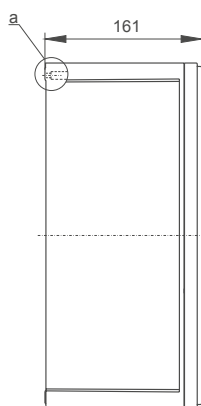
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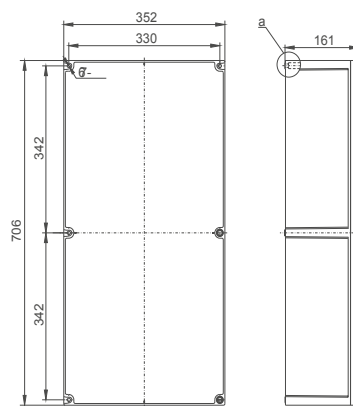
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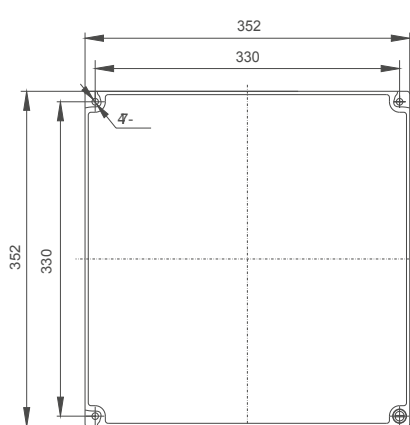
F20372



F2092



F2081



F2082

