

Control Station and Control Panel: Control Box/ Junction Box with terminals, DCT1DE/JBE3B series

Flameproof/ Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

DCT1DE control boxes consist of an Ex d enclosure made of aluminium alloy and a JBE3B Ex e enclosure made of stainless steel.

They are designed for use in hazardous areas classified as Zone 1, Zone 2, Zone 21, and Zone 22. Typical installations include petroleum refineries, chemical plants, and storage areas where hazardous substances are handled.

Each control box features a circular or rectangular viewing window and is capable of housing both analog and digital measuring instruments, clearly indicating the electrical functions performed.

Specification

Ex 'd' enclosure

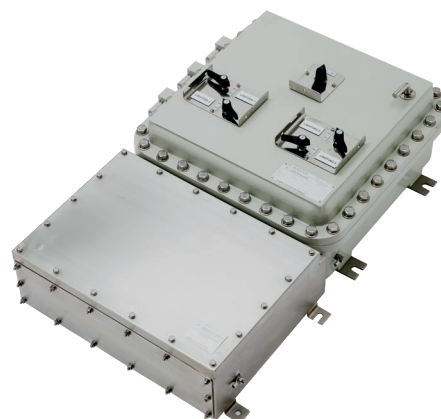
- Body, cover : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (Grey) (optional offshore painting- acrylic polyurethane coating)
- Bolts : Stainless steel, SS 304 (optional SS 316)
- Sealing (O-ring) : Silicone

Ex 'e' enclosure

- Body, cover : Stainless steel, SS 304 or SS 316
- Bolts : Stainless steel, SS 304 or SS 316
- Sealing gasket : Silicone

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	II 2G	II 2D
Symbol of Protection	Ex db eb IIB+H ₂ T6/T5 Gb	Ex tb IIIC T85°C/ T100°C Db
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN IEC 60079-31	
Ambient Temperature	-40°C to +65°C	
Index of Protection	IP66	
Entry Threads	NPT or Metric threads	
Mounting	Wall mount	
Rated Voltage	Max. 750 V AC, 50/60 Hz	



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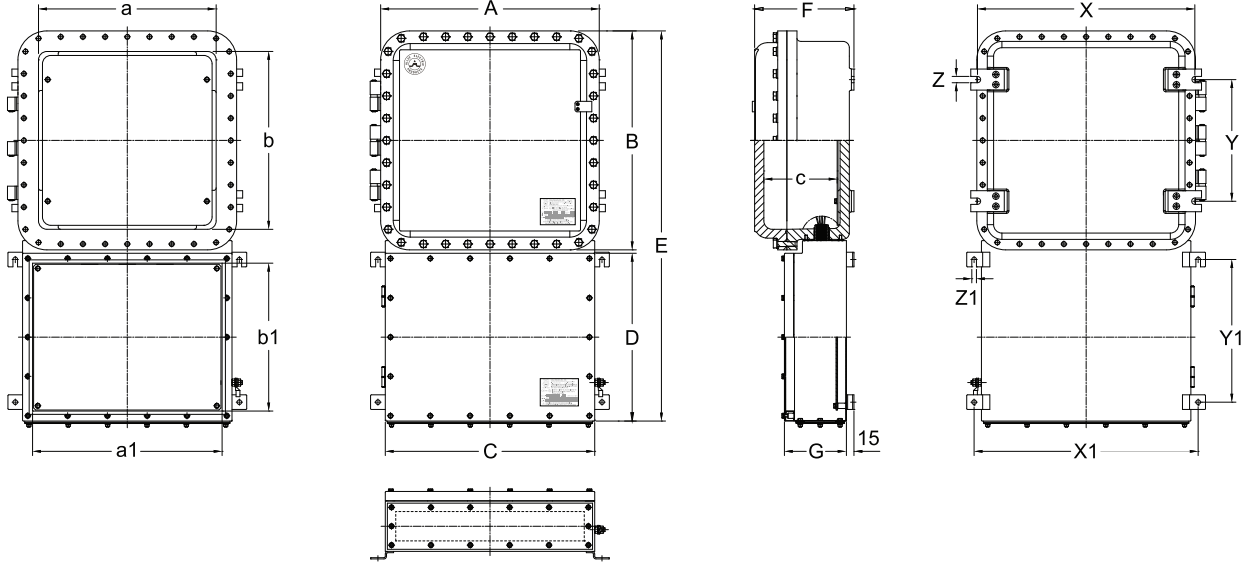
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Dimensions



Cat. No.		Dimensions in mm																		
		Inside						Outside						Mounting						
Ex db	Ex eb	a	b	c	a1	b1	c1	A	B	C	D	E	F	G	X	Y	Z	X1	Y1	Z1
DCT1DE 685	/JBE3B□ -141410	100	155	95	90	90	79	170	225	140	140	370	134	107	164	100	10	175	75	11
DCT1DE 886	/JBE3B□ -181812	138	138	123	130	130	97	210	210	180	180	395	164	125	206	100	10	215	115	11
DCT1DE 8126	/JBE3B□ -182512	135	240	120	130	200	99	207	312	180	250	567	164	125	204	160	12	215	185	11
DCT1DE 8126	/JBE3B□ -202512	240	135	120	150	200	99	312	207	200	250	462	164	125	204	160	12	235	185	11
DCT1DE 8187	/JBE3B□ -202016	136	394	160	150	150	136	208	466	200	200	671	204	164	204	300	12	235	135	11
DCT1DE 8187	/JBE3B□ -352016	394	136	160	300	150	136	466	208	350	200	413	204	164	204	300	12	385	135	11
DCT1DE 9157	/JBE3B□ -202515	164	314	153	150	200	127	237	387	200	250	642	198	155	232	230	12	235	185	11
DCT1DE 9157	/JBE3B□ -282015	314	164	153	230	150	127	387	237	280	200	442	198	155	232	230	12	315	135	11
DCT1DE 9207	/JBE3B□ -202516	162	440	164	150	200	136	230	508	200	250	763	208	164	232	350	12	235	185	11
DCT1DE 9207	/JBE3B□ -402016	440	162	164	350	150	136	508	230	400	200	435	208	164	232	350	12	435	135	11
DCT1DE 101610	/JBE3B□ -202520	174	324	210	150	200	178	263	413	200	250	668	260	206	244	240	12	235	185	11
DCT1DE 101610	/JBE3B□ -282520	324	174	210	230	200	178	413	263	280	250	518	260	206	244	240	12	315	185	11
DCT1DE 11218	/JBE3B□ -302516	210	450	170	150	200	138	299	539	200	250	794	220	166	280	350	12	235	185	11
DCT1DE 11218	/JBE3B□ -402516	450	210	170	350	200	138	539	299	400	250	554	220	166	280	350	12	435	185	11
DCT1DE 12127	/JBE3B□ -302515	244	244	155	250	200	123	333	333	300	250	588	205	151	314	170	12	335	185	11
DCT1DE 15156	/JBE3B□ -352511	300	300	115	300	200	85	389	389	350	250	644	165	113	370	240	12	385	185	11
DCT1DE 151510	/JBE3B□ -352521	300	300	215	300	200	183	389	389	350	250	644	267	211	370	240	12	385	185	11
DCT1DE 15198	/JBE3B□ -353016	298	398	165	300	250	133	387	487	350	300	792	217	161	368	300	12	385	235	11
DCT1DE 162810	/JBE3B□ -404020	330	627	218	350	350	174	423	720	400	400	1125	279	202	406	450	12	435	335	11
DCT1DE 162810	/JBE3B□ -504020	627	330	218	450	350	174	720	423	500	400	828	279	202	406	450	12	535	335	11
DCT1DE 20208	/JBE3B□ -503516	424	424	175	450	300	132	522	522	500	350	877	237	160	523	290	15	535	285	11
DCT1DE 202410	/JBE3B□ -504019	420	520	209	450	350	166	534	634	500	400	1039	271	194	517	450	15	535	335	11
DCT1DE 20329	/JBE3B□ -505018	410	700	195	450	450	156	532	822	500	500	1327	262	184	514	650	15	535	435	11
DCT1DE 20329	/JBE3B□ -655018	700	410	195	600	450	156	822	532	650	500	1037	262	184	514	650	15	685	435	11
DCT1DE 203611	/JBE3B□ -505021	393	798	220	450	450	184	524	929	500	500	1434	296	212	515	680	15	535	435	11
DCT1DE 203611	/JBE3B□ -705021	798	393	220	650	450	184	929	524	700	500	1029	296	212	515	680	15	735	435	11
DCT1DE 284411	/JBE3B□ -608020	575	975	223	550	750	179	743	1143	600	800	1948	301	207	711	800	15	635	735	11
DCT1DE 284411	/JBE3B□ -906020	975	575	223	850	550	179	1143	743	900	600	1348	301	207	711	800	15	935	535	11

✦ 6 Mounting feet.

□ Housing material ; 4 - SS 304, 6 - SS 316