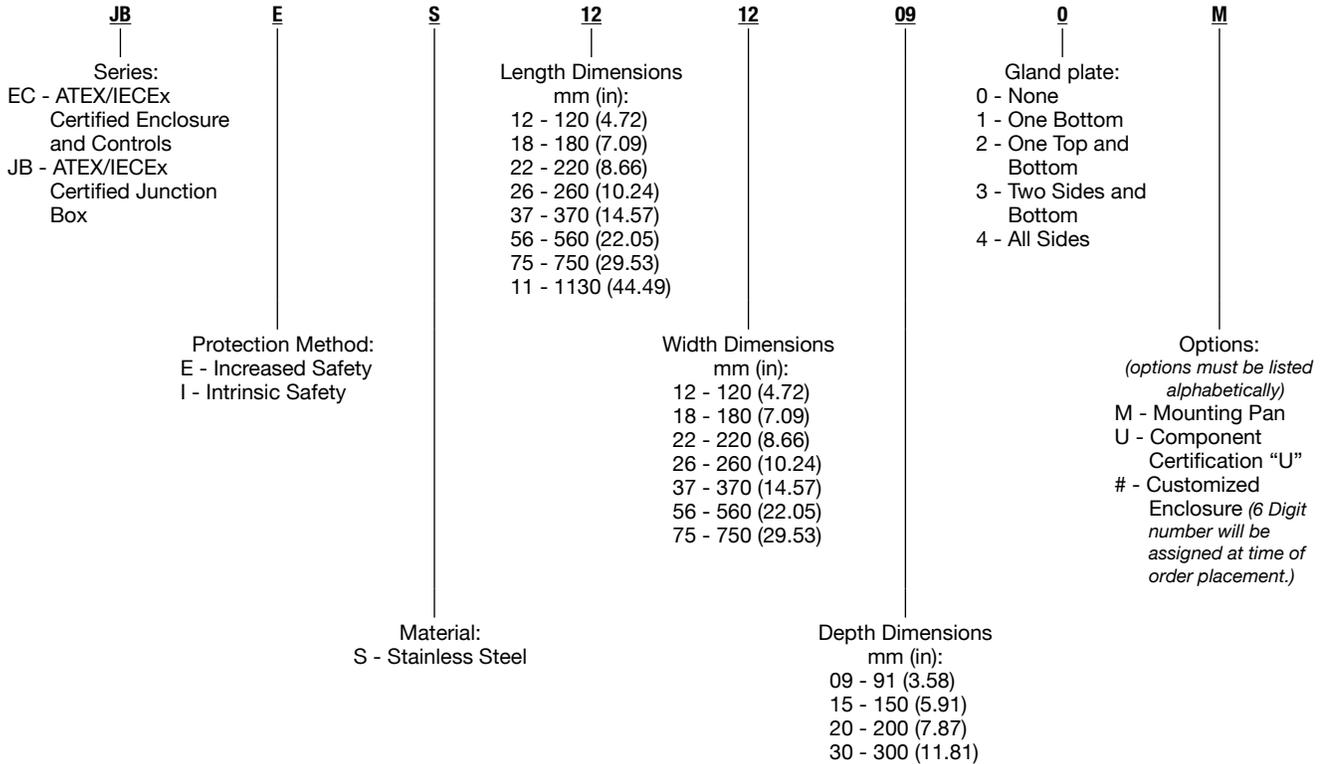


ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEX:
 Zone 1 and 2 - 21 and 22
 II 2 GD
 IP66 - IK10

Catalog Numbering Guide — JBES and ECES 316L Stainless Steel Enclosures



ENCLOSURES AND JUNCTION BOXES: ATEX/IECEX INCREASED SAFETY JUNCTION BOXES

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JBES Series

Type	Dimensions L x W x D mm (in)	Hinged Door ②	One Gland Plate Catalog Number	Two Gland Plates Catalog Number	Three Gland Plate Catalog Number	Four Gland Plates Catalog Number
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Ex e II 316L Stainless Steel Terminal Junction Boxes with Gland Plates 3 mm (0.12") Thick

For use only with Ex terminals (not supplied). M8 External earth crossing terminal. Mounting pan and rails to be ordered separately.

	JBe36	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2226151	JBES2226152	JBES2226153	JBES2226154
	JBe36	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2622151	JBES2622152	JBES2622153	JBES2622154
 One Gland Plate	JBe46	220 x 370 x 200 (8.66 x 14.57 x 7.87) ①	R	JBES2237201	JBES2237202	JBES2237203	JBES2237204
	JBe47	260 x 370 x 200 (10.24 x 14.57 x 7.87) ①	Y	JBES2637201	JBES2637202	JBES2637203	JBES2637204
 Two Gland Plate	JBe46	370 x 220 x 200 (14.57 x 8.66 x 7.87) ①	R	JBES3722201	JBES3722202	JBES3722203	JBES3722204
	JBe47	370 x 260 x 200 (14.57 x 10.24 x 7.87) ①	Y	JBES3726201	JBES3726202	JBES3726203	JBES3726204
 Gland Plate Three	JBe55	370 x 370 x 200 (14.57 x 14.57 x 7.87) ①	Y	JBES3737201	JBES3737202	JBES3737203	JBES3737204
	JBe65	370 x 560 x 200 (14.57 x 22.05 x 7.87) ①	Y	JBES3756201	JBES3756202	JBES3756203	JBES3756204
 Four Gland Plate	JBe75	370 x 750 x 200 (14.57 x 29.53 x 7.87) ①	Y	JBES3775201	JBES3775202	JBES3775203	JBES3775204
	JBe65	560 x 370 x 200 (22.05 x 14.57 x 7.87) ①	Y	JBES5637201	JBES5637202	JBES5637203	JBES5637204
	JBe77	560 x 560 x 200 (22.05 x 22.05 x 7.87) ①	Y	JBES5656201	JBES5656202	JBES5656203	JBES5656204
	JBe79	560 x 750 x 200 (22.05 x 29.53 x 7.87) ①	Y	JBES5675201	JBES5675202	JBES5675203	JBES5675204
	JBe75	750 x 370 x 200 (29.53 x 14.57 x 7.87) ①	Y	JBES7537201	JBES7537202	JBES7537203	JBES7537204
	JBe79	750 x 560 x 200 (29.53 x 22.05 x 7.87) ①	Y	JBES7556201	JBES7556202	JBES7556203	JBES7556204
	JBe86	1130 x 750 x 300 (44.49 x 29.53 x 11.81)	Y	JBES1175301	JBES1175302	JBES1175303	JBES1175304

① 200 mm (7.87") depth enclosure available with 300 mm (11.81") depth – replace digit 2 with 3 – Example: JBES3737304.

② N: Not Available, R: On request or separate accessories, Y: Supplied.

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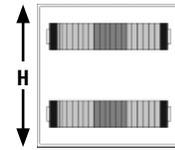
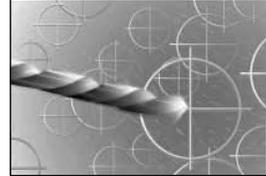
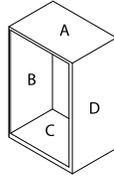
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JBES Series for Terminal Junction Box Application Only.

Use the table shown below to select the proper size junction box based upon your requirements.
Custom drilled and equipped boxes can be configured using our drilling guide available online at www.appletonelec.com.

1. Define maximum cable entries according to number of modules available per side.

Cable Entry Metric Thread	Number of Modules
M20	1
M25	1
M32	1
M40	2
M50	3



Type	Dimensions mm (in)			Number of Modules		Number of Modules ①		Terminal Dim. H — mm (in)
	Height	Width	Depth	A/C	B/D	A'/C'	B'/D'	
JBe10	120 (4.72)	120 (4.72)	95 (3.74)	5	5	—	—	220 (8.66)
JBe20	120 (4.72)	180 (7.09)	95 (3.74)	9	5	—	—	220 (8.66)
JBe30	180 (7.09)	180 (7.09)	95 (3.74)	9	9	—	—	220 (8.66)
JBe36	220 (8.66)	260 (10.24)	150 (5.91)	11	7	9	5	220 (8.66)
JBe36	260 (10.24)	220 (8.66)	150 (5.91)	7	11	5	9	260 (10.24)
JBe46	220 (8.66)	370 (14.57)	200 (7.87)	31	16	19	7	260 (10.24)
JBe46	370 (14.57)	220 (8.66)	200 (7.87)	16	31	7	9	370 (14.57)
JBe47	370 (14.57)	260 (10.24)	200 (7.87)	20	31	14	20	370 (14.57)
JBe47	260 (10.24)	370 (14.57)	200 (7.87)	31	20	19	10	260 (10.24)
JBe55	370 (14.57)	370 (14.57)	200 (7.87)	31	31	19	18	370 (14.57)
JBe65	560 (22.05)	370 (14.57)	200 (7.87)	31	49	19	31	560 (22.05)
JBe65	370 (14.57)	560 (22.05)	200 (7.87)	49	31	34	18	370 (14.57)
JBe75	750 (29.53)	370 (14.57)	200 (7.87)	31	66	19	47	750 (29.53)
JBe75	370 (14.57)	750 (29.53)	200 (7.87)	66	31	49	18	370 (14.57)
JBe77	560 (22.05)	560 (22.05)	200 (7.87)	49	49	34	31	560 (22.05)
JBe79	750 (29.53)	560 (22.05)	200 (7.87)	49	66	34	45	750 (29.53)
JBe79	560 (22.05)	750 (29.53)	200 (7.87)	66	49	49	31	560 (22.05)
JBe86	1130 (44.49)	750 (29.53)	300 (11.81)	102	—	82	—	1130 (44.49)

2. Maximum rail arrangement according to physical dimensions.

Terminal Capacity mm ² (in ²)	Maximum Quantity of Horizontal Rails Per Quantity							
	2.5 (0.004)	4 (0.006)	6 (0.009)	10 (0.016)	16 (0.025)	35 (0.054)	50 (0.078)	70 (0.109)
JBe10/20/30/36	1	1	1	1	1	1	0	0
JBe36/46/47	2	2	2	1	1	1	0	0
JBe46/47/55/65/75	3	3	2	2	2	2	1	1
JBe65/77/79	5	5	4	4	4	3	2	2
JBe75/79	7	7	6	6	5	4	3	2
JBe86	10	10	9	9	8	6	4	4

① Enclosure with gland plate.

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3. Defining maximum terminal block quantity according to power dissipation:

- Junction boxes used for instrumentation applications carry very low current levels. Therefore there is no risk of overheating whatever the number of terminals inside the box.
- For applications other than instrumentation, the following tables allow you to define your junction box depending on the number of terminals and the maximum authorized current being carried with feed-through terminals.
- For single feed terminals using cross connection, consult factory for calculation.

For other terminal block configurations, please consult our drilling guide available online at www.appletonelec.com.

T Rating: T6 @ Ta +55° C (+131 °F)		Type		
		JBe10 120 x 120 x 95 mm (5 x 5 x 4")	JBe20 120 x 180 x 95 mm (5 x 7 x 4")	JBe30 180 x 180 x 95 mm (7 x 7 x 4")
2.5 mm ² (0.004 in ²)	Quantity	10	21	21
	I Maximum	16 A	16 A	16 A
4 mm ² (0.006 in ²)	Quantity	8	17	16
	I Maximum	25 A	25 A	25 A
6 mm ² (0.009 in ²)	Quantity	6	13	13
	I Maximum	32 A	32 A	32 A
10 mm ² (0.016 in ²)	Quantity	5	10	9
	I Maximum	50 A	50 A	50 A

T Rating: T6 @ Ta +55° C (+131 °F)		Type			
		JBe36 220 x 260 x 150 mm (9 x 10 x 6")	JBe46 220 x 370 x 200 mm (9 x 15 x 8")	JBe47 260 x 370 x 200 mm (10 x 15 x 8")	JBe55 370 x 370 x 200 mm (15 x 15 x 8")
2.5 mm ² (0.004 in ²)	Quantity	33	50	70	110
	I Maximum	16 A	14 A	12 A	10 A
4 mm ² (0.006 in ²)	Quantity	21	38	62	80
	I Maximum	25 A	20 A	16 A	15 A
6 mm ² (0.009 in ²)	Quantity	19	22	23	26
	I Maximum	32 A	32 A	32 A	32 A
10 mm ² (0.016 in ²)	Quantity	12	14	15	20
	I Maximum	50 A	50 A	50 A	45 A
16 mm ² (0.024 in ²)	Quantity	8	10	17	20
	I Maximum	63 A	63 A	50 A	50 A
25 mm ² (0.039 in ²)	Quantity	12	14	16	20
	I Maximum	80 A	80 A	76 A	76 A
35 mm ² (0.054 in ²)	Quantity	9	11	12	16
	I Maximum	100 A	100 A	100 A	93 A

T Rating: T6 @ Ta +40 °C (+104 °F) T6 @ Ta +55° C (+131 °F)		Type			
		JBe65 560 x 370 x 200 mm (22 x 15 x 8")	JBe75 750 x 370 x 200 mm (30 x 15 x 8")	JBe77 560 x 560 x 200 mm (22 x 22 x 8")	JBe79 560 x 750 x 200 mm (22 x 30 x 8")
35 mm ² (0.054 in ²)	Quantity	15	16	18	—
	I Maximum	100 A	99 A	100 A	—
50 mm ² (0.078 in ²)	Quantity	12	16	—	—
	I Maximum	125 A	108 A	—	—
70 mm ² (0.109 in ²)	Quantity	12	16	16	16
	I Maximum	150 A	135 A	144 A	150 A
95 mm ² (0.147 in ²)	Quantity	9	12	12	16
	I Maximum	200 A	178 A	190 A	173 A
120 mm ² (0.186 in ²)	Quantity	—	6	—	12
	I Maximum	—	250 A	—	225 A
150 mm ² (0.233 in ²)	Quantity	—	9	—	12
	I Maximum	—	250 A	—	250 A

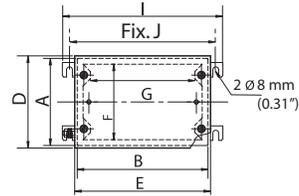
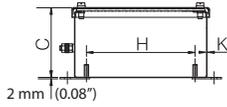
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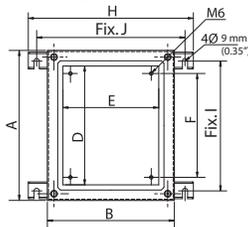
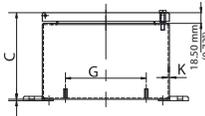
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Dimensions in Millimeters (Inches)

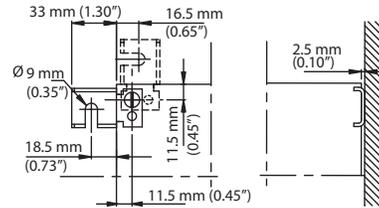
Box 95 (3.74) Depth



Box 200 (7.87) or 300 (11.81) Depth



Mounting Bracket



L x W x D mm (in)	A	B	C	D	E	F	G	H	I	J	K
Box Depth 95 (3.74)											
120 x 120 x 95 (4.72 x 4.72 x 3.74)	120 (4.72)	120 (4.72)	95 (3.74)	127 (5.00)	127 (5.00)	104 (4.09)	84 (3.31)	88 (3.46)	160 (6.30)	140 (5.51)	1.5 (0.06)
120 x 180 x 95 (4.72 x 7.09 x 3.74)	120 (4.72)	180 (7.09)	95 (3.74)	127 (5.00)	187 (7.36)	104 (4.09)	144 (5.67)	148 (5.83)	220 (8.66)	200 (7.87)	1.5 (0.06)
180 x 180 x 95 (7.06 x 7.09 x 3.74)	180 (7.09)	180 (7.09)	95 (3.74)	187 (7.36)	187 (7.36)	164 (6.47)	144 (5.67)	148 (5.83)	220 (8.66)	200 (7.87)	1.5 (0.06)
Box Depth 200 (7.87)											
220 x 370 x 200 (8.66 x 14.57 x 7.87)	220 (8.66)	370 (14.57)	200 (7.87)	166 (6.54)	316 (12.44)	140 (5.51)	290 (11.42)	436 (17.17)	185 (7.28)	407 (16.02)	1.5 (0.06)
370 x 260 x 200 (14.57 x 10.24 x 7.87)	370 (14.57)	260 (10.24)	200 (7.87)	316 (12.44)	206 (8.11)	290 (11.42)	180 (7.09)	326 (12.83)	335 (13.19)	297 (11.69)	1.5 (0.06)
370 x 370 x 200 (14.57 x 14.57 x 7.87)	370 (14.57)	370 (14.57)	200 (7.87)	316 (12.44)	316 (12.44)	290 (11.42)	290 (11.42)	436 (17.17)	335 (13.19)	407 (16.02)	2 (0.08)
560 x 370 x 200 (22.05 x 14.57 x 7.87)	560 (22.05)	370 (14.57)	200 (7.87)	506 (19.92)	316 (12.44)	480 (18.90)	290 (11.42)	436 (17.17)	525 (20.67)	407 (16.02)	2 (0.08)
750 x 370 x 200 (29.53 x 14.57 x 7.87)	750 (29.53)	370 (14.57)	200 (7.87)	695 (27.36)	316 (12.44)	670 (26.38)	290 (11.42)	436 (17.17)	715 (28.15)	407 (16.02)	2 (0.08)
560 x 560 x 200 (22.05 x 22.05 x 7.87)	560 (22.05)	560 (22.05)	200 (7.87)	506 (19.92)	506 (19.92)	480 (18.90)	480 (18.90)	626 (24.65)	525 (20.67)	597 (23.50)	2 (0.08)
750 x 560 x 200 (29.53 x 22.05 x 7.87)	750 (29.53)	560 (22.05)	200 (7.87)	696 (24.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
Box Depth 300 (11.81)											
370 x 370 x 300 (14.57 x 14.57 x 11.81)	370 (14.57)	370 (14.57)	300 (11.81)	316 (12.44)	316 (12.44)	290 (11.42)	290 (11.42)	436 (17.17)	335 (13.19)	407 (16.02)	2 (0.08)
560 x 370 x 300 (22.05 x 14.57 x 11.81)	560 (22.05)	370 (14.57)	300 (11.81)	506 (19.92)	316 (12.44)	480 (18.90)	290 (11.42)	436 (17.17)	525 (20.67)	407 (16.02)	2 (0.08)
750 x 370 x 300 (29.53 x 14.57 x 11.81)	750 (29.53)	370 (14.57)	300 (11.81)	695 (27.36)	316 (12.44)	670 (26.38)	290 (11.42)	436 (17.17)	715 (28.15)	407 (16.02)	2 (0.08)
560 x 560 x 300 (22.05 x 22.05 x 11.81)	560 (22.05)	560 (22.05)	300 (11.81)	506 (19.92)	506 (19.92)	480 (18.90)	480 (18.90)	626 (24.65)	525 (20.67)	597 (23.50)	2 (0.08)
750 x 560 x 300 (29.53 x 22.05 x 11.81)	750 (29.53)	560 (22.05)	300 (11.81)	696 (24.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
1130 x 750 x 300 (44.49 x 29.53 x 11.81)	1130 (44.49)	750 (29.53)	300 (11.81)	1076 (42.36)	506 (19.92)	1050 (41.34)	670 (26.38)	816 (32.13)	1095 (43.11)	787 (30.98)	2 (0.08)