

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D $\diamond$
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEx — Optional ①:

Zone 1 and 2 – 21 and 22
 Ex II 2 GD
 IP66 – IK10

Application

- Explosionproof junction boxes are used where hazardous materials are handled or stored. These enclosures may be used for:
 - Terminals
 - Splicing wires
 - Pull boxes
 - Bus boxes

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet for horizontal or vertical mounting.
- Flexible hinge mounting either left or right side is standard on all boxes 12 x 12 x 06 and larger.
- External flange maximizes internal space.
- Wall thickness suitable for minimum of five full threads.
- Provision for mounting pan.
- Wide range of drilled and tapped outlets.
- Ground lug package and installation instructions for termination of ground wires enclosed.
- O-ring gasket insures watertight integrity.

Standard Materials

- Bodies and covers: sand cast copperfree (4/10 of 1% max.) aluminum
- Cover bolts: stainless steel
- O-ring: neoprene
- Hinges: stainless steel
- Mounting pan: galvanized steel

Standard Finishes

- Bodies and covers: shot blast finish standard

Options

- Custom drilling and tapping.
- Set of 4 standoffs 12.7 mm (0.50") high. For factory-installed option add suffix **-AB**.
- Breather, NEMA 4X (includes outlets and installation). For factory-installed option add suffix **-BR**, for field-installed option order catalog number **BRTB4X**.
- Drain, NEMA 4X (includes outlets and installation). For factory-installed option add suffix **-DN** for field-installed option order catalog number **ECD50B4X**.
- Desiccate package. For factory-installed option add suffix **-DP1**, for field-installed option order catalog number **AWG13/1CT**.
- External grounding stud 3/8"-16. For factory-installed option add suffix **-EGS**.
- Gray epoxy powder coat (outside). For factory-installed option add suffix **-G1**.
- Gray epoxy powder coat available to provide NEMA 4X rating (inside and outside). For factory-installed option add suffix **-G2**.
- Internal Ground Stud, #14 - #2. For factory-installed option add suffix **-GNDKIT**.
- Hinges: stainless steel hinge available for boxes up to 11 x 30 x 03. For factory-installed option add suffix **-H**.
- Hinge Kit, 2 light duty SS hinges. For field-installed option order catalog number **AHOF12SS**.
- Hinge Kit, 2 heavy duty SS hinges. For field-installed option order catalog number **AHOF22SS**.



- Hinge Kit, 3 heavy duty SS hinges. For field-installed option order catalog number **AHOF23SS**.
- Terminal blocks 600 Volt, 30 Amp Indicate number of points: example: 5 points = 5K. For factory-installed option add suffix **-K**.
- Plastic nameplate, 50.8 x 101.6 mm (2.00 x 4.00"), 3.3 mm (13") black letters on white surface, 3 lines max, specify legend. For factory-installed option add suffix **-NP**.
- SS captive Quad-Lead bolts. For factory-installed option add suffix **-Q**.
- ATEX complete product certification add suffix **-X** ①.
- ATEX U component certification add suffix **-XU** ①.
- Mounting pan. For factory-installed option add suffix **-Z**.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1203
- cULus Listed: E85310
- CSA Standard: C22.2 No. 25, C22.2 No.30
- CSA Certified: 042129

ATEX/IECEx Certifications and Compliances

- Certification Type JBEW
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ex d IIB + H₂ GB
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ex t D
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 5C239
- ATEX Certificate: LCIE 07 ATEX 6069X
- IECEx Certificate: IECEx LCI 07.0018X
- Internal Volume: > 2dm³ (122 in³) — 2 liters
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

EURASEC Certification

- Certification Type JBEW
 - EURASEC N° TC RU C-FR.Г505.B.00911

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D $\diamond$
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEx — Optional ①:

Zone 1 and 2 – 21 and 22
 ② II 2 GD
 IP66 – IK10

Dimensions in Millimeters (Inches)												Max. Conduit Size	Ship Weight	Mounting Hardware Catalog	Catalog
Overall Dimensions			Mounting Dimensions				Inside Dimensions					Inches	kg (lb)	Number	Number
F	E	G	A	AA	B	BB	W	H	Db	Dc	K				
181.1 (7.13)	231.9 (9.13)	155.7 (6.13)	N/A	171.5 (6.75)	N/A	54.1 (2.13)	101.6 (4.00)	152.4 (6.00)	95.3 (3.75)	19.1 (0.75)	63.5 (2.50)	1-1/2	9.1 (20)	AMH2	AJBEW040604
227.1 (8.94)	342.9 (13.50)	155.7 (6.13)	101.6 (4.00)	N/A	279.4 (11.00)	N/A	128.5 (5.06)	241.3 (9.50)	88.9 (3.50)	28.7 (1.13)	50.8 (2.00)	1-1/2	9.1 (20)	AMH2	AJBEW050903
244.6 (9.63)	237.0 (9.33)	158.8 (6.25)	N/A	222.3 (8.75)	N/A	308.1 (12.13)	152.4 (6.00)	152.4 (6.00)	101.6 (4.00)	19.1 (0.75)	60.5 (2.38)	2	9.1 (20)	AMH2	AJBEW060604
264.2 (10.40)	315.0 (12.40)	165.1 (6.50)	114.3 (4.50)	231.9 (9.13)	268.2 (10.56)	114.3 (4.50)	152.4 (6.00)	203.2 (8.00)	95.3 (3.75)	19.1 (0.75)	63.5 (2.50)	2	9.1 (20)	AMH2	AJBEW060804
264.2 (10.40)	317.5 (12.50)	206.5 (8.13)	N/A	238.3 (9.38)	N/A	114.3 (4.50)	152.4 (6.00)	203.2 (8.00)	146.1 (5.75)	19.1 (0.75)	60.5 (2.38)	2	9.1 (20)	AMH2	AJBEW060806
270.0 (10.63)	387.4 (15.25)	171.5 (6.75)	139.7 (5.50)	N/A	333.5 (13.13)	N/A	155.7 (6.13)	273.1 (10.75)	96.8 (3.81)	36.6 (1.44)	50.8 (2.00)	2	12.2 (27)	AMH2	AJBEW061004
270.0 (10.63)	421.6 (16.60)	162.1 (6.38)	N/A	231.9 (9.13)	N/A	215.9 (8.50)	155.7 (6.13)	308.1 (12.13)	103.1 (4.06)	25.4 (1.00)	57.2 (2.25)	2	11.3 (25)	AMH2	AJBEW061204
279.4 (11.00)	520.7 (20.50)	174.8 (6.88)	152.4 (6.00)	N/A	457.2 (18.00)	N/A	165.1 (6.50)	406.4 (16.00)	104.9 (4.13)	35.1 (1.38)	58.7 (2.31)	2	14.5 (32)	AMH2	AJBEW061604
311.2 (12.25)	403.4 (15.88)	254.0 (10.00)	162.1 (6.38)	N/A	342.9 (13.50)	N/A	187.5 (7.38)	289.1 (11.38)	149.4 (5.88)	63.5 (2.50)	85.9 (3.38)	2	15.9 (35)	AMH2	AJBEW071106
311.2 (12.25)	311.2 (12.25)	209.6 (8.25)	114.3 (4.50)	273.1 (10.75)	273.1 (10.75)	114.3 (4.50)	203.2 (8.00)	203.2 (8.00)	146.1 (5.75)	19.1 (0.75)	82.6 (3.25)	2	13.6 (30)	AMH2	AJBEW080806
317.5 (12.50)	368.3 (14.50)	215.9 (8.50)	177.8 (7.00)	273.1 (10.75)	317.5 (12.50)	165.1 (6.50)	203.2 (8.00)	254.0 (10.00)	146.1 (5.75)	19.1 (0.75)	88.9 (3.50)	2	16.3 (36)	AMH2	AJBEW081006
317.5 (12.50)	443.0 (17.44)	263.7 (10.38)	N/A	254.0 (10.00)	N/A	215.9 (8.50)	203.2 (8.00)	331.7 (13.06)	88.9 (3.50)	88.9 (3.50)	69.9 (2.75)	2	13.6 (30)	AMH2	AJBEW081307
352.6 (13.88)	393.7 (15.50)	220.7 (8.69)	184.2 (7.25)	300.2 (11.82)	333.5 (13.13)	217.4 (8.56)	238.3 (9.00)	282.7 (11.13)	122.2 (4.81)	47.8 (1.88)	82.6 (3.25)	2	10.0 (22)	AMH2	AJBEW091105
362.0 (14.25)	519.2 (20.44)	215.9 (8.50)	184.2 (7.25)	300.0 (11.81)	454.2 (17.88)	338.1 (13.31)	241.3 (9.50)	395.2 (15.56)	120.7 (4.75)	44.5 (1.75)	76.2 (3.00)	2	15.0 (33)	AMH2	AJBEW091504
376.2 (14.81)	376.2 (14.81)	231.9 (9.13)	165.1 (6.50)	273.8 (10.78)	330.2 (13.00)	114.3 (4.50)	260.4 (10.25)	260.4 (10.25)	146.1 (5.75)	38.1 (1.50)	85.9 (3.38)	2	20.00 (44)	AMH2	AJBEW101006
368.3 (14.50)	469.9 (18.50)	214.4 (8.44)	177.8 (7.00)	330.2 (13.00)	422.4 (16.63)	270.0 (10.63)	254.0 (10.00)	355.6 (14.00)	149.4 (5.88)	19.1 (0.75)	79.5 (3.13)	2	24.9 (55)	AMH4	AJBEW101406
368.3 (14.50)	469.9 (18.50)	244.6 (9.63)	N/A	330.2 (13.00)	N/A	270.0 (10.63)	254.0 (10.00)	355.6 (14.00)	196.9 (7.75)	19.1 (0.75)	112.8 (4.44)	4	27.2 (60)	AMH2	AJBEW101408
416.1 (16.38)	638.3 (25.13)	190.5 (7.50)	260.4 (10.25)	368.3 (14.50)	574.8 (22.63)	428.8 (16.88)	289.1 (11.38)	508.0 (20.00)	124.0 (4.88)	38.1 (1.50)	88.9 (3.50)	3	38.6 (85)	AMH2	AJBEW112005
400.1 (15.75)	746.3 (29.38)	258.8 (10.19)	215.9 (8.50)	358.9 (14.13)	689.1 (27.13)	508.0 (20.00)	273.1 (10.75)	619.3 (24.38)	152.4 (6.00)	41.4 (1.63)	101.6 (4.00)	3	32.7 (72)	AMH8	AJBEW112406

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D $\diamond$
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEx — Optional ①:

Zone 1 and 2 – 21 and 22
 ② II 2 GD
 IP66 – IK10

Dimensions in Millimeters (Inches)												Max.	Mounting		
Overall Dimensions			Mounting Dimensions				Inside Dimensions					Conduit	Ship	Hardware	Catalog
F	E	G	A	AA	B	BB	W	H	Db	Dc	K	Size	Weight	Catalog	Number
Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	kg (lb)	Number	Number
416.1 (16.38)	889.0 (35.00)	260.4 (10.25)	241.3 (9.50)	384.3 (15.13)	835.2 (32.88)	692.2 (27.25)	285.8 (11.25)	759.0 (29.88)	157.2 (6.19)	47.8 (1.88)	106.4 (4.19)	3	51.3 (113)	AMH8	AJBEW113006
441.5 (17.38)	441.5 (17.38)	235 (9.25)	219.2 (8.63)	397.0 (15.63)	397.0 (15.63)	219.2 (8.63)	311.2 (12.25)	311.2 (12.25)	146.1 (5.75)	38.1 (1.50)	95.3 (3.75)	3	29.5 (65)	AMH8	AJBEW121206
441.5 (17.38)	441.5 (17.38)	292.1 (11.50)	219.2 (8.63)	397.0 (15.63)	397.0 (15.63)	219.2 (8.63)	311.2 (12.25)	311.2 (12.25)	196.9 (7.75)	38.1 (1.50)	120.7 (4.75)	3	31.8 (70)	AMH8	AJBEW121208
431.8 (17.00)	584.2 (23.00)	231.9 (9.13)	177.8 (7.00)	400.1 (15.75)	533.4 (21.00)	358.9 (14.13)	311.2 (12.25)	463.6 (18.25)	146.1 (5.75)	38.1 (1.50)	88.9 (3.50)	4	40.8 (90)	AMH5	AJBEW121806
431.8 (17.00)	584.2 (23.00)	282.7 (11.13)	177.8 (7.00)	400.1 (15.75)	533.4 (21.00)	358.9 (14.13)	311.2 (12.25)	463.6 (18.25)	222.3 (8.75)	38.1 (1.50)	108.0 (4.25)	4	45.8 (101)	AMH5	AJBEW121808
425.5 (16.75)	730.3 (28.75)	282.7 (11.13)	N/A	400.1 (15.75)	N/A	466.9 (18.38)	304.8 (12.00)	609.6 (24.00)	196.9 (7.75)	25.4 (1.00)	108.0 (4.25)	4	62.6 (138)	AMH4	AJBEW122408
425.5 (16.75)	1035.1 (40.75)	301.8 (11.88)	N/A	400.1 (15.75)	N/A	736.6 (29.00)	304.8 (12.00)	914.4 (36.00)	196.9 (7.75)	38.1 (1.50)	115.8 (4.56)	4	98.9 (218)	AMH5	AJBEW123608
457.2 (18.00)	1079.5 (42.50)	265.2 (10.44)	409.7 (16.13)	301.8 (11.88)	1035.1 (40.75)	857.3 (33.75)	346.2 (13.63)	962.2 (37.88)	155.7 (6.13)	38.1 (1.50)	109.5 (4.31)	3-1/2	86.2 (190)	AMH8	AJBEW133806
492.3 (19.38)	492.3 (19.38)	242.8 (9.56)	247.7 (9.75)	450.9 (17.75)	450.9 (17.75)	247.7 (9.75)	374.7 (14.75)	374.7 (14.75)	146.1 (5.75)	35.1 (1.38)	98.6 (3.88)	3-1/2	44.5 (98)	AMH8	AJBEW141406
492.3 (19.38)	492.3 (19.38)	293.6 (11.56)	247.7 (9.75)	450.9 (17.75)	450.9 (17.75)	247.7 (9.75)	374.7 (14.75)	374.7 (14.75)	196.9 (7.75)	35.1 (1.38)	101.6 (4.00)	3	47.6 (105)	AMH8	AJBEW141408
498.6 (19.63)	736.6 (29.00)	304.8 (12.00)	333.5 (13.13)	N/A	698.5 (27.50)	N/A	378 (14.88)	616.0 (24.25)	203.2 (8.00)	38.1 (1.50)	101.6 (4.00)	4	59.4 (131)	AMH6	AJBEW142408
539.8 (21.25)	1092.2 (43.00)	306.3 (12.06)	349.3 (13.75)	508.0 (20.00)	1057.4 (41.63)	812.8 (32.00)	397 (15.63)	946.2 (37.25)	189.0 (7.44)	38.1 (1.50)	133.4 (5.25)	4	113.4 (250)	AMH8	AJBEW153707
533.4 (21.00)	533.4 (21.00)	249.2 (9.81)	279.4 (11.00)	501.7 (19.75)	501.7 (19.75)	279.4 (11.00)	419.1 (16.50)	419.1 (16.50)	146.1 (5.75)	38.1 (1.50)	98.6 (3.88)	3-1/2	59.9 (132)	AMH8	AJBEW161606
533.4 (21.00)	533.4 (21.00)	314.7 (12.39)	279.4 (11.00)	501.7 (19.75)	501.7 (19.75)	279.4 (11.00)	419.1 (16.50)	419.1 (16.50)	212.9 (8.38)	38.1 (1.50)	124.0 (4.88)	4	63.5 (140)	AMH8	AJBEW161608
543.1 (21.38)	593.9 (23.38)	382.5 (15.06)	304.8 (12.00)	482.6 (19.00)	533.4 (21.00)	355.6 (14.00)	412.8 (16.25)	463.6 (18.25)	301.8 (11.88)	9.7 (0.38)	177.8 (7.00)	4	68.0 (150)	AMH8	AJBEW161812
546.1 (21.50)	693.7 (27.31)	230.1 (9.06)	330.2 (13.00)	505.0 (19.88)	641.4 (25.25)	393.7 (15.50)	417.6 (16.44)	571.5 (22.50)	146.1 (5.75)	31.8 (1.25)	84.1 (3.31)	3	59.0 (130)	AMH8	AJBEW162206
533.4 (21.00)	711.2 (28.00)	308.1 (12.13)	N/A	501.7 (19.75)	N/A	466.9 (18.38)	412.8 (16.25)	616.0 (24.25)	209.6 (8.25)	38.1 (1.50)	134.9 (5.31)	4	81.6 (180)	AMH6	AJBEW162408
527.1 (20.75)	831.9 (32.75)	219.2 (8.63)	330.2 (13.00)	N/A	781.1 (30.75)	N/A	412.8 (16.25)	717.6 (28.25)	146.1 (5.75)	38.1 (1.50)	79.5 (3.13)	3	68.0 (150)	AMH5	AJBEW162806
593.9 (23.38)	593.9 (23.38)	252.5 (9.94)	330.2 (13.00)	552.5 (21.75)	552.5 (21.75)	330.2 (13.00)	463.6 (18.25)	463.6 (18.25)	146.1 (5.75)	38.1 (1.50)	104.9 (4.13)	3-1/2	85.3 (188)	AMH8	AJBEW181806

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:
 Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEx — Optional ①:
 Zone 1 and 2 – 21 and 22
 ② II 2 GD
 IP66 – IK10

Dimensions in Millimeters (Inches)												Max.	Mounting	Catalog Number	Catalog Number
Overall Dimensions			Mounting Dimensions				Inside Dimensions					Conduit Size	Ship Weight		
F	E	G	A	AA	B	BB	W	H	Db	Dc	K	Inches	kg (lb)	Hardware	
593.9 (23.38)	593.9 (23.38)	303.3 (11.94)	330.2 (13.00)	552.5 (21.75)	552.5 (21.75)	330.2 (13.00)	463.6 (18.25)	463.6 (18.25)	196.9 (7.75)	38.1 (1.50)	114.3 (4.50)	4	89.8 (198)	AMH8	AJBEW181808
608.1 (23.94)	762.0 (30.00)	309.4 (12.18)	409.7 (16.13)	552.5 (21.75)	704.9 (27.75)	466.9 (18.38)	463.6 (18.25)	614.4 (24.19)	196.9 (7.75)	38.1 (1.50)	128.5 (5.06)	4	101.6 (224)	AMH8	AJBEW182408
608.1 (23.94)	762.0 (30.00)	360.2 (14.18)	409.7 (16.13)	552.5 (21.75)	704.9 (27.75)	466.9 (18.38)	463.6 (18.25)	614.4 (24.19)	247.7 (9.75)	38.1 (1.50)	146.1 (5.75)	4	106.6 (235)	AMH8	AJBEW182410
574.8 (22.63)	879.6 (34.63)	308.1 (12.13)	N/A	552.5 (21.75)	N/A	584.2 (23.00)	463.6 (18.25)	768.4 (30.25)	196.9 (7.75)	38.1 (1.50)	120.7 (4.75)	4	120.2 (265)	AMH5	AJBEW183008
596.9 (23.50)	1060.5 (41.75)	312.7 (12.31)	279.4 (11.00)	552.5 (21.75)	1003.3 (39.50)	736.6 (29.00)	463.6 (18.25)	927.1 (36.50)	196.9 (7.75)	38.1 (1.50)	120.7 (4.75)	4	113.4 (250)	AMH8	AJBEW183608
596.9 (23.50)	1060.5 (41.75)	363.5 (14.31)	279.4 (11.00)	552.5 (21.75)	1003.3 (39.50)	736.6 (29.00)	463.6 (18.25)	927.1 (36.50)	247.7 (9.75)	38.1 (1.50)	139.7 (5.50)	4	122.5 (270)	AMH8	AJBEW183610
606.6 (23.88)	1216.2 (47.88)	301.8 (11.88)	406.4 (16.00)	584.2 (23.00)	1152.7 (45.38)	974.9 (38.38)	473.2 (18.63)	1073.2 (42.25)	177.8 (7.00)	38.1 (1.50)	127.0 (5.00)	4	140.6 (310)	AMH8	AJBEW184207
635.0 (25.00)	1651.0 (65.00)	323.9 (12.75)	N/A	596.9 (23.50)	N/A	1270.0 (50.00)	508.0 (20.00)	1524.0 (60.00)	174.8 (6.88)	38.1 (1.50)	120.7 (4.75)	4	236.3 (521)	AMH5	AJBEW206008
746.3 (29.38)	746.3 (29.38)	312.7 (12.31)	466.9 (18.38)	711.2 (28.00)	711.2 (28.00)	466.9 (18.38)	622.3 (24.50)	622.3 (24.50)	196.9 (7.75)	38.1 (1.50)	127.0 (5.00)	4	102.1 (225)	AMH8	AJBEW242408
746.3 (29.38)	746.3 (29.38)	363.5 (14.31)	466.9 (18.38)	711.2 (28.00)	711.2 (28.00)	466.9 (18.38)	622.3 (24.50)	622.3 (24.50)	247.7 (9.75)	38.1 (1.50)	155.7 (6.13)	4	108.9 (240)	AMH8	AJBEW242410
736.6 (29.00)	889.0 (35.00)	330.2 (13.00)	457.2 (18.00)	711.2 (28.00)	863.6 (34.00)	584.2 (23.00)	609.6 (24.00)	762.0 (30.00)	203.2 (8.00)	49.3 (1.94)	133.4 (5.25)	4	190.5 (420)	AMH8	AJBEW243008
781.1 (30.75)	1092.2 (43.00)	331.7 (13.06)	463.6 (18.25)	711.2 (28.00)	1016.0 (40.00)	736.6 (29.00)	616.0 (24.25)	920.8 (36.25)	196.9 (7.75)	41.4 (1.63)	130.3 (5.13)	4	190.5 (420)	AMH5	AJBEW243608
781.1 (30.75)	1092.2 (43.00)	382.5 (15.06)	463.6 (18.25)	711.2 (28.00)	1016.0 (40.00)	736.6 (29.00)	616.0 (24.25)	920.8 (36.25)	247.7 (9.75)	41.4 (1.63)	152.4 (6.00)	4	204.1 (450)	AMH5	AJBEW243610
914.4 (36.00)	1117.6 (44.00)	349.3 (13.75)	N/A	889.0 (35.00)	N/A	736.6 (29.00)	762.0 (30.00)	965.2 (38.00)	196.9 (7.75)	50.8 (2.00)	155.7 (6.13)	4	272.2 (600)	AMH6	AJBEW303808
914.4 (36.00)	1117.6 (44.00)	509.5 (20.06)	N/A	889.0 (35.00)	N/A	736.6 (29.00)	762.0 (30.00)	965.2 (38.00)	196.9 (7.75)	196.9 (7.75)	155.7 (6.13)	4	362.9 (800)	AMH6	AJBEW303816 ②

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

② Cast Junction Box does not have ATEX/IECEx certification.

AJBEW Cast Junction Box Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D $\diamond$
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEx — Optional ①:

Zone 1 and 2 – 21 and 22
 II 2 GD
 IP66 – IK10

Options

Factory–Installed Suffix	Field–Installed Catalog Number	Description
AB	Not Available	Set of 4 standoffs 12.7 mm (0.50") high
BR	BRTB4X	Breather, NEMA 4X (includes outlets and installation)
DN	ECD50B4X	Drain, NEMA 4X (includes outlets and installation)
DP1	AWG13/1CT	Desiccate package
EGS	EGSKIT	External grounding stud 3/8"-16
G1	Not Available	Gray powder coat epoxy (outside)
G2	Not Available	Gray powder coat epoxy (inside and outside)
GNDKIT		Internal Ground Stud, #14 - #2
H		Hinges stainless steel
	AHOF12SS	Hinge Kit, 2 light duty SS hinges
	AHOF22SS	Hinge Kit, 2 heavy duty SS hinges
	AHOF23SS	Hinge Kit, 3 heavy duty SS hinges
K	Not Available	Terminal blocks 600 Volt, 30 Amp <i>Indicate number of points: example: 5 points = 5K</i>
NP	Not Available	Plastic nameplate, 50.8 x 101.6 mm (2.00 x 4.00"), 3.3 mm (13") black letters on white surface, 3 lines max, specify legend.
Q	Not Available	SS captive Quad-Lead bolts
X	Not Available	ATEX Certification
XU	Not Available	ATEX Component Certification
Z	See table on following page	Mounting pan

Drill and Tap Options

(For drill and tap schedule, Drilling and Tapping Guidelines)

Symbol	Conduit Size (NPT) Inches	Symbol	Conduit Size (NPT) Inches
A	1/2	F	2
B	3/4	G	2-1/2
C	1	H	3
D	1-1/4	J	3-1/2
E	1-1/2	K	4

Blind Tapped Holes	
Suffix	Screw Size
BT1	#6 - 1/4"
BT2	5/16" - 1/2"

Mounting Hardware

Refer to ordering information for Enclosure-Mounting Hardware Correlation.

Factory–Installed Suffix	Field–Installed Catalog Number	Description
MH1	AMH1	1/4" - 20 x 1-1/4" Bolt, 1/4" - 20 Hex Nut, 1/4" Washers
MH2	AMH2	3/8" -16 x 1-1/4" Bolt, 3/8" -16 Hex Nut, 3/8" Washers
MH3	AMH3	7/16" - 14 x 1-3/4" Bolt, 7/16" - 14 Hex Nut, 7/16" Washers
MH4	AMH4	1/2" - 13 x 1-3/4" Bolt, 1/2" - 13 Hex Nut, 1/2" Washers
MH5	AMH5	1/2" - 13 x 2" Bolt, 1/2" - 13 Hex Nut, 1/2" Washers
MH6	AMH6	5/8" - 11 x 2" Bolt, 5/8" - 11 Hex Nut, 5/8" Washers
MH7	AMH7	1/2" - 13 x 1-1/4" Bolt, 1/2" - 13 Hex Nut, 1/2" Washers
MH8	AMH8	5/8" - 11 x 1-1/4" Bolt, 5/8" - 11 Hex Nut, 5/8" Washers

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

AJBEW Cast Junction Box Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC/CEC:
 Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEX — Optional ①:
 Zone 1 and 2 – 21 and 22
 ② II 2 GD
 IP66 – IK10

Mounting Pans

Mounting Pan Catalog Number	Junction Box Catalog Number	Overall Dimensions in Millimeters (Inches)	
		W	H
AZ-464	AJBEW040604	76.2 (3.00)	127.0 (5.00)
AZ-664	AJBEW060604	120.7 (4.75)	120.7 (4.75)
AZ-684	AJBEW060806	114.3 (4.50)	165.1 (6.50)
AZ-593	AJBEW050903	101.6 (4.00)	215.9 (8.50)
AZ-684	AJBEW060804	114.3 (4.50)	165.1 (6.50)
AZ-6104	AJBEW061004	127.0 (5.00)	266.7 (10.50)
AZ-6124	AJBEW061204	139.7 (5.50)	279.4 (11.00)
AZ-6164	AJBEW061604	133.4 (5.25)	381.0 (15.00)
AZ-7116	AJBEW071106	165.1 (6.50)	254.0 (10.00)
AZ-886	AJBEW080806	165.1 (6.50)	165.1 (6.50)
AZ-8106	AJBEW081006	165.1 (6.50)	215.9 (8.50)
AZ-8137	AJBEW081307	152.4 (6.00)	279.4 (11.00)
AZ-9115	AJBEW091105	209.6 (8.25)	254.0 (10.00)
AZ-9154	AJBEW091504	206.5 (8.13)	374.7 (14.75)
AZ-10104/6	AJBEW101006	190.5 (7.50)	190.5 (7.50)
AZ-10146/8	AJBEW101408	228.6 (9.00)	330.2 (13.00)
AZ-10146/8	AJBEW101408	228.6 (9.00)	330.2 (13.00)
AZ-11205	AJBEW112005	266.7 (10.50)	482.6 (19.00)
AZ-11246	AJBEW112406	251.0 (9.88)	590.6 (23.25)
AZ-11306	AJBEW113006	251.0 (9.88)	723.9 (28.50)
AZ-12126/8	AJBEW121206	266.7 (10.50)	266.7 (10.50)
AZ-12126/8	AJBEW121208	266.7 (10.50)	266.7 (10.50)
AZ-12186/8	AJBEW121806	266.7 (10.50)	419.1 (16.50)
AZ-12186/8	AJBEW121808	266.7 (10.50)	419.1 (16.50)
AZ-12248/10	AJBEW122408	273.1 (10.75)	574.8 (22.63)
AZ-12368	AJBEW123608	254.0 (10.00)	863.6 (34.00)
AZ-13386	AJBEW133806	292.1 (11.50)	924.1 (36.38)

Mounting Pan Catalog Number	Junction Box Catalog Number	Overall Dimensions in Millimeters (Inches)	
		W	H
AZ-14146/8	AJBEW141406	311.2 (12.25)	311.2 (12.25)
AZ-14146/8	AJBEW141408	311.2 (12.25)	311.2 (12.25)
AZ-14248	AJBEW142408	355.6 (14.00)	568.5 (22.38)
AZ-15377	AJBEW153707	368.3 (14.50)	901.7 (35.50)
AZ-16166/8	AJBEW161606	381.0 (15.00)	381.0 (15.00)
AZ-16166/8	AJBEW161608	381.0 (15.00)	381.0 (15.00)
AZ-161812	AJBEW161812	381.0 (15.00)	406.4 (16.00)
AZ-16226	AJBEW162206	355.6 (14.00)	508.0 (20.00)
AZ-16248	AJBEW162408	374.7 (14.75)	577.9 (22.75)
AZ-16286	AJBEW162806	355.6 (14.00)	660.4 (26.00)
AZ-18186/8	AJBEW181806	406.4 (16.00)	406.4 (16.00)
AZ-18186/8	AJBEW181808	406.4 (16.00)	406.4 (16.00)
AZ-18248/10	AJBEW182408	406.4 (16.00)	558.8 (22.00)
AZ-18248/10	AJBEW182410	406.4 (16.00)	558.8 (22.00)
AZ-18308	AJBEW183008	406.4 (16.00)	711.2 (28.00)
AZ-18368/10	AJBEW183608	431.8 (17.00)	882.7 (34.75)
AZ-18368/10	AJBEW183610	431.8 (17.00)	882.7 (34.75)
AZ-18427	AJBEW184207	431.8 (17.00)	1016.0 (40.00)
AZ-205610	AJBEW205610	431.8 (17.00)	1371.6 (54.00)
AZ-20608	AJBEW206008	457.2 (18.00)	1460.5 (57.50)
AZ-24248/10	AJBEW242408	558.8 (22.00)	558.8 (22.00)
AZ-24248/10	AJBEW242410	558.8 (22.00)	558.8 (22.00)
AZ-24308	AJBEW243008	571.5 (22.50)	711.2 (28.00)
AZ-24368/10	AJBEW243608	558.8 (22.00)	863.6 (34.00)
AZ-24368/10	AJBEW243610	558.8 (22.00)	863.6 (34.00)
AZ-30388	AJBEW303808	711.2 (28.00)	914.4 (36.00)
AZ-30388	AJBEW303816	711.2 (28.00)	914.4 (36.00)

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.
 ① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.

AJBEW Cast Junction Box Drilling and Tapping Guidelines

Explosionproof, Dust-Ignitionproof

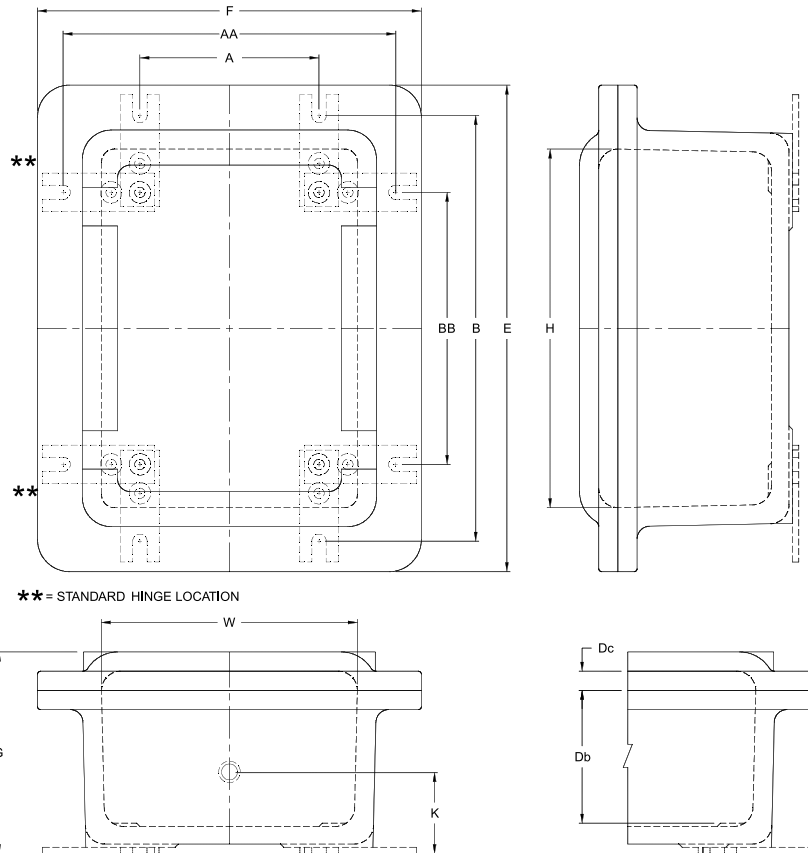
NEC/CEC:

Class I, Division 1 and 2, Groups B $\diamond$, C $\diamond$, D $\diamond$
 Class I, Zone 1 and 2, Groups IIA, IIB $\diamond$ +H $\diamond$ ₂ $\diamond$
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B $\diamond$ C $\diamond$ D, 9EFG

ATEX/IECEx — Optional ①:

Zone 1 and 2 – 21 and 22
 ② II 2 GD
 IP66 – IK10

Dimensions — See Catalog Number Tables



Drilling and Tapping Guidelines

Conduit Size (NPT)	Minimum Spacing For Conduit Centers in Millimeters (Inches)									
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
1/2	54.1 (2.13)	54.1 (2.13)	57.2 (2.25)	66.8 (2.63)	71.4 (2.81)	79.5 (3.13)	92.2 (3.63)	101.6 (4.00)	114.3 (4.50)	114.3 (4.50)
3/4	54.1 (2.13)	54.1 (2.13)	57.2 (2.25)	66.8 (2.63)	71.4 (2.81)	79.5 (3.13)	92.2 (3.63)	101.6 (4.00)	114.3 (4.50)	114.3 (4.50)
1	57.2 (2.25)	57.2 (2.25)	60.5 (2.38)	71.4 (2.81)	76.2 (3.00)	82.6 (3.25)	95.3 (3.75)	104.9 (4.13)	114.3 (4.50)	117.6 (4.63)
1-1/4	66.8 (2.63)	66.8 (2.63)	71.4 (2.81)	79.5 (3.13)	84.1 (3.31)	92.2 (3.63)	104.9 (4.13)	114.3 (4.50)	120.7 (4.75)	127.0 (5.00)
1-1/2	71.4 (2.81)	71.4 (2.81)	76.2 (3.00)	84.1 (3.31)	88.9 (3.50)	96.8 (3.81)	109.5 (4.31)	117.6 (4.63)	125.5 (4.94)	133.4 (5.25)
2	79.5 (3.13)	79.5 (3.13)	82.6 (3.25)	92.2 (3.63)	96.8 (3.81)	104.9 (4.13)	117.6 (4.63)	127.0 (5.00)	148.1 (5.83)	146.1 (5.75)
2-1/2	92.2 (3.63)	92.2 (3.63)	95.3 (3.75)	104.9 (4.13)	109.5 (4.31)	117.6 (4.63)	130.3 (5.13)	84.1 (3.31)	146.1 (5.75)	155.7 (6.13)
3	101.6 (4.00)	101.6 (4.00)	104.9 (4.13)	114.3 (4.50)	117.6 (4.63)	127.0 (5.00)	84.1 (3.31)	146.1 (5.75)	152.4 (6.00)	158.8 (6.25)
3-1/2	114.3 (4.50)	114.3 (4.50)	114.3 (4.50)	120.7 (4.75)	125.5 (4.94)	136.7 (5.38)	146.1 (5.75)	152.4 (6.00)	158.8 (6.25)	165.1 (6.50)
4	114.3 (4.50)	114.3 (4.50)	117.6 (4.63)	127.0 (5.00)	133.4 (5.25)	146.1 (5.75)	155.7 (6.13)	158.8 (6.25)	165.1 (6.50)	171.5 (6.75)

$\diamond$ For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

① Ordering a product with any ATEX Certification nulls the UL, CSA and cULus Certifications.