

1E EJB Junction Boxes

Cl. I, Div. 1 and 2, Groups B, C, D Ex d IIB + H₂ T6, IP66
Cl. II, Div. 1, Groups E, F, G Explosionproof
Cl. II, Div. 2, Groups F, G Dust-Ignitionproof
Cl. III Raintight
NEMA 3, 4, 4X*, 7, 9 Wet Locations

Applications:

EJB junction boxes are used in threaded rigid conduit systems in hazardous areas:

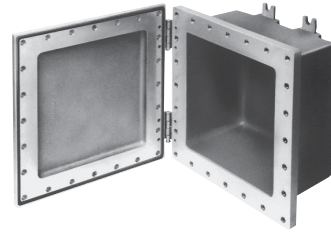
- As a junction or pull box
- To provide enclosures for splices and branch circuit taps
- For housing terminal blocks, relays and other electrical devices
- Indoors or outdoors in damp, wet, dusty, corrosive, hazardous locations
- Where exposure to frequent or heavy rain, water, spray, moisture, and humidity is common, such as: offshore drilling facilities, cooling towers, coal preparation and handling facilities and sewage and waste water treatment plant
- In areas which are hazardous due to the presence of hydrogen or gases and vapors of equivalent hazard such as found in process industries, missile bases and gas manufacturing plants

Features:

- Style C boxes provided with aluminum plate cover as standard, allowing for field addition of cover device holes
- Stainless steel cover bolts (Style C only)
- Ground joint cover opening provides maximum opening for pulling wires or mounting equipment
- Walls of bodies may be drilled and tapped for conduit entries as shown in listings
- Stud bolts in diagonally opposite corners of body aid in aligning cover to body during installation (not furnished with hinged covers)
- All Style C bodies are provided with captive, triple lead, quick release hex head stainless steel bolts with spring loaded action which provides clear indication that cover bolts are fully retracted from the body
- External flange design – wide unobstructed cover opening provides a completely accessible interior for wiring and electrical equipment
- Square corners of enclosure body provide maximum interior space and area for conduit openings
- Internal grounding lug provides a means to ground enclosed equipment
- Special neoprene cover gasket provides a watertight seal to meet NEMA 4 requirements, and provides superior protection for enclosed equipment against water/corrosion
- IEC rated when ordered with ATEX suffix
- Enclosures are machined for field installed mounting plates
- Detachable mounting feet provide mounting flexibility. No need to replace enclosure if mounting feet are broken.
- Optional stainless steel hinges provide convenient and easy access for inspection, maintenance and systems changes
- Enclosures are machined to accept field installed hinges



EJB121208 with optional hinged cover



EJB121208 with optional hinged cover and standard neoprene cover gasket

Certifications and Compliances:

- NEC/CEC
 - Class I, Divisions 1 and 2, Groups B*, C† and D‡
 - Class II, Division 1, Groups E, F and G
 - Class II, Division 2, Groups F and G
 - Class III
 - Class I, Zones 1 and 2
- UL Standard 1203
- cUL to CSA Standard C22.2 No. 30
- ATEX: Ex d IIB + H₂ T6, IP66
 - ATEX certificate: PTB 01 ATEX 1020 U
- Enclosure Type 3, 3R, 4, 4X*, 7BCD, 9EFG
- IEC Standard EN:60079-0 and EN:60079-1

Standard Materials:

- Body and cover – copper-free aluminum (suffix -SA items and all Style C), *Feraloy*® iron alloy (Style D)
- Gasket – neoprene
- Cover bolts – stainless steel (Style C), steel (Style D)
- Hinges – stainless steel

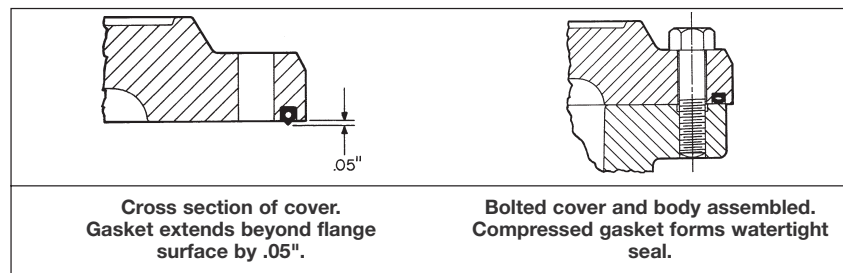
Standard Finishes:

- Copper-free aluminum – natural
- *Feraloy* iron alloy – electrogalvanized and aluminum acrylic paint
- Steel – electrogalvanized
- Extruded aluminum – natural

Options:

Description	Suffix
• Hinged covers Hinges mounted on left (short side)	S598
Available on all Style C and the following Style D enclosures: EJB101008-SA, EJB120804, EJB120804-SA, EJB120808-SA, and EJB141006-SA	
Hinge kits for field installation (no field machining required) –	
• EJB100806 through 361208.....	EJB KIT 1 (2 hinges)
• EJB361808	EJB KIT 3 (3 hinges)
• EJB362408	EJB KIT 4 (4 hinges)
• For EJB101008-SA, EJB120804, EJB120804-SA, EJB120808-SA and EJB141006-SA	EJB KIT 5 (2 hinges)
Factory installed mounting plates for relays, terminal blocks, electrical devices, etc. –	
• Aluminum mounting plate kit for field installation (kit includes aluminum mounting plate, pillars and mounting hardware). No field machining required. See Ordering Information on next page	MP
• Factory installed terminal blocks.....	Information on request
• ATEX Certified	ATEX

Gasket Detail



*For Group B, install sealing fitting in each conduit run within 18" of the enclosure. To meet 4X requirement, add suffix S752 or S753.

†EJB361208, 361808, 362408 and all style D enclosures require sealing fittings within 18" of enclosure for each conduit run for Group C locations.

‡Style D enclosures require sealing fittings within 18" of enclosure for each conduit run for Group D locations.

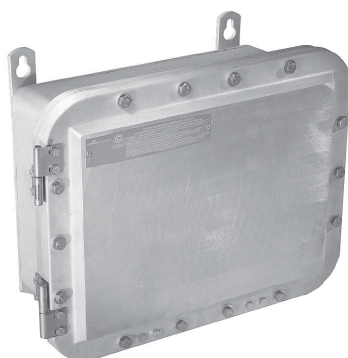
For conduit liner ordering information, see page 860.

EJB Junction Boxes

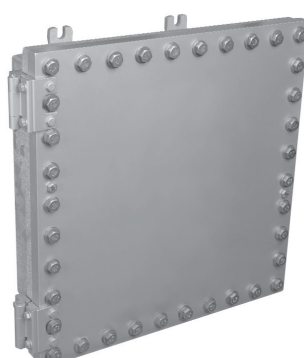
Cl. I, Div. 1 and 2, Groups B, C, D
 Cl. II, Div. 1, Groups E, F, G
 Cl. II, Div. 2, Groups F, G
 Cl. III
 NEMA 3, 4, 4X*, 7, 9

Ex d IIB + H₂ T6, IP66
 Explosionproof
 Dust-Ignitionproof
 Raintight
 Wet Locations

1E



Style D



Style C – EJB121208* with optional hinged cover

Ordering Information:

Junction boxes listed can be furnished with drilled and tapped openings, subject to material required and the limitations of maximum size and number of openings as well as spacing, as shown in Tables 1 and 2.

To Order:

Step 1

Select the box required from photos at left, listings, and dimensional drawings on next pages.

Step 2

Select standard conduit arrangement from Table 1 and maximum size conduit opening required from Table 2.

Step 3

Select appropriate symbol for required drilled and tapped opening from Table 3.

Example:

Step 1 – Box required – EJB080806

Step 2 – Arrangement – 2

Step 3 – Openings – two 1" drilled and tapped holes in top and bottom and two 2" drilled and tapped holes on each side.

Step 4 – Symbols are substituted and written in clockwise order starting with "a." When no opening is required at a particular location, use symbol "0" (zero).

For this example: CC, GG, CC, GG.

Complete Cat. No. is made up of three parts: Part 1 – box number; Part 2 – arrangement number; Part 3 – symbols for conduit openings. For this example: EJB080806-2-CC-GG-CC-GG

If none of the standard arrangements meet requirements, send a sketch showing junction box number with size and location of each conduit opening desired.

Nominal Inside Dimensions

Style	Material	Cat. #	Sides (aa)	Top & Bottom (bb)	Depth	Mounting Plate
D	Iron	EJB060404	4	6	4	MP0406
D	Iron	EJB080604	6	8	4	MP0608
D	Iron	EJB080606	6	8	6	MP0608
D	Iron	EJB080806	8	8	6	MP0808
D	Iron	EJB120804	8	12	4	MP0812
D	Iron	EJB160404	4	16	4	MP0416
D	Aluminum	EJB060404 SA	4	6	4	MP0406
D	Aluminum	EJB080604 SA	6	8	4	MP0608
D	Aluminum	EJB080606 SA	6	8	6	MP0608
D	Aluminum	EJB080806 SA	8	8	6	MP0808
D	Aluminum	EJB120604 SA	6	12	4	MP0612
D	Aluminum	EJB120804 SA	8	12	4	MP0812
D	Aluminum	EJB120808 SA	8	12	8	MP0812
D	Aluminum	EJB160404 SA	4	16	4	MP0416
D	Aluminum	EJB101008 SA	10	10	8	MP1010
D	Aluminum	EJB141006 SA	10	14	6	MP1014
C	Aluminum	EJB100806	8	10	6	MP0810
C	Aluminum	EJB121204	12	12	4	MP1212
C	Aluminum	EJB121206	12	12	6	MP1212
C	Aluminum	EJB121208	12	12	8	MP1212
C	Aluminum	EJB161606	16	16	6	MP1616
C	Aluminum	EJB161608	16	16	8	MP1616
C	Aluminum	EJB181206	12	18	6	MP1218
C	Aluminum	EJB181208	12	18	8	MP1218
C	Aluminum	EJB241208	12	24	8	MP1224
C	Aluminum	EJB241210	12	24	10	MP1224
C	Aluminum	EJB241808	18	24	8	MP1824
C	Aluminum	EJB241810	18	24	10	MP1824
C	Aluminum	EJB242408	24	24	8	MP2424
C	Aluminum	EJB242410	24	24	10	MP2424
C	Aluminum	EJB361208	12	36	8	MP1236
C	Aluminum	EJB361808	18	36	8	MP1836
C	Aluminum	EJB361810	18	36	10	MP1836
C	Aluminum	EJB362408	24	36	8	MP2436
C	Aluminum	EJB602212†	22	60	12	MP2260

†Class I, Division 1 and 2, Groups C and D only.

*See Compliances on previous page.

For conduit liner ordering information, see page 860.

Crouse-Hinds

by **E•T•N**

www.crouse-hinds.com US: 1-866-764-5454 CAN: 1-800-265-0502 Copyright© 2013 Eaton's Crouse-Hinds Business

731

1E EJB Junction Boxes

Ordering Information

Table 1
Conduit Arrangement Diagrams

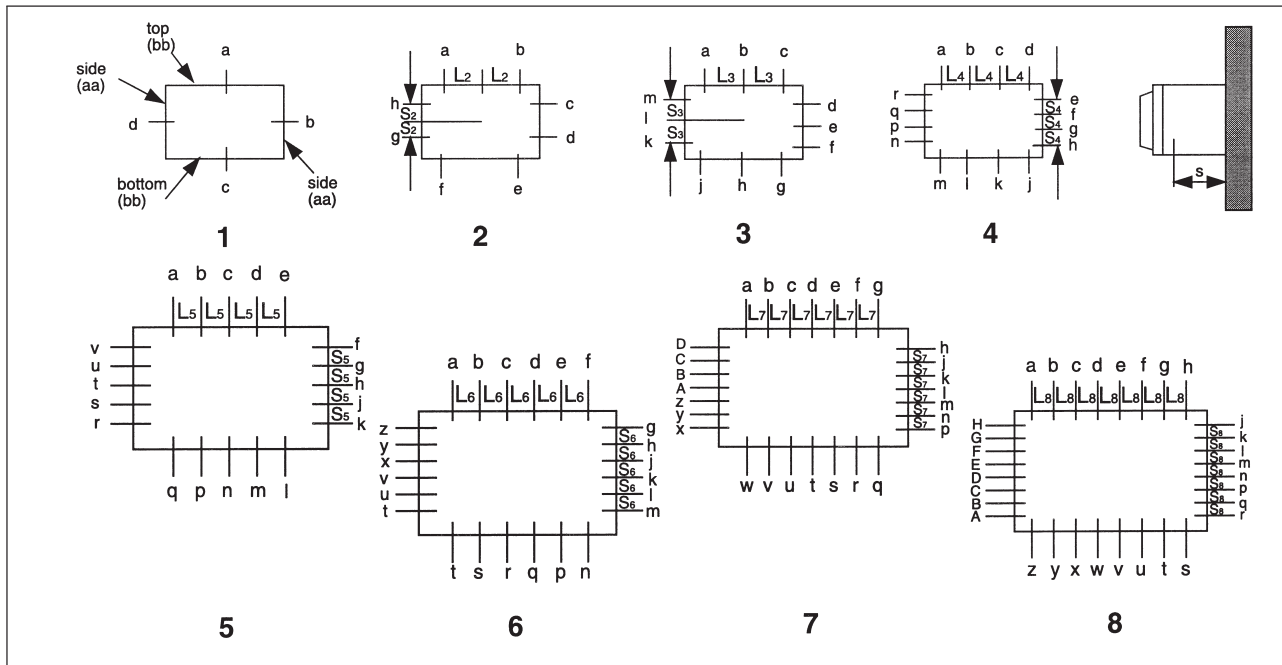


Table 2
Conduit Arrangements – Style D

Maximum Trade Size and Number of Openings

Cat. #	Top and Bottom (bb)*				Sides (aa)				Spacing Dimensions						
	1	2	3	4	1	2	3	4	S	L ₂	S ₂	L ₃	S ₃	L ₄	S ₄
EJB060404	2	1 ¹ / ₄	1 ¹ / ₂	—	2	1 ¹ / ₂	—	—	2 ⁵ / ₈	1 ⁵ / ₈	1 ¹ / ₁₆	2 ¹ / ₈	—	—	—
EJB080604	2	2	1	1 ¹ / ₂	2	1 ¹ / ₄	1 ¹ / ₂	—	2 ³ / ₈	2 ¹ / ₈	1 ⁵ / ₈	2 ³ / ₄	2 ¹ / ₈	2 ¹ / ₁₆	—
EJB080606	3 ¹ / ₂	2	1	1 ¹ / ₂	3 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₂	—	3 ³ / ₄	2 ¹ / ₄	1 ⁵ / ₈	2 ³ / ₄	2 ¹ / ₈	2 ¹ / ₁₆	—
EJB080806	3 ¹ / ₂	2	1	1 ¹ / ₂	3 ¹ / ₂	2	1	1 ¹ / ₂	3 ³ / ₄	2 ¹ / ₄	2 ¹ / ₄	2 ³ / ₄	2 ¹ / ₈	2 ¹ / ₁₆	2 ¹ / ₁₆
EJB101008	4	2 ¹ / ₂	1 ¹ / ₂	1	4	2 ¹ / ₂	1 ¹ / ₂	1	4 ³ / ₄	2 ³ / ₄	2 ³ / ₄	3 ³ / ₈	3 ³ / ₈	2 ⁹ / ₁₆	2 ⁹ / ₁₆
EJB120604	2	2	2	1 ¹ / ₄	2	1 ¹ / ₂	1 ¹ / ₂	—	2 ³ / ₄	3	1 ⁵ / ₈	4 ¹ / ₈	2 ¹ / ₈	3 ³ / ₈	—
EJB120804	2	2	2	1 ¹ / ₄	2	2	1	1 ¹ / ₂	2 ¹ / ₈	3	2 ¹ / ₄	4 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₁₆	2 ¹ / ₁₆
EJB120808	4	4	2	1 ¹ / ₄	4	2	1	1 ¹ / ₂	4 ³ / ₄	3 ¹ / ₄	2 ¹ / ₄	4 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₁₆	2 ¹ / ₁₆
EJB141006	3 ¹ / ₂	3 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	3 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₂	1	3 ³ / ₈	3 ³ / ₄	2 ³ / ₄	5	3 ⁹ / ₁₆	3 ³ / ₈	2 ⁹ / ₁₆
EJB160404	2	2	2	2	2	1 ¹ / ₂	—	—	2 ⁵ / ₈	3	1 ¹ / ₁₆	6	—	4 ¹ / ₈	—

*Top and bottom are longer dimensions on enclosures which are not square.

Conduit seals are required in all conduit entrances for Class I, Division 1, Group B hazardous areas, and for EJB361208, EJB361808, EJB361810, EJB362408, and all Style D enclosures when used in Class I, Division 1, Group C hazardous areas. For other sealing requirements, consult the National Electrical Code*. Where standard arrangements are not adequate, special drilling and tapping can be ordered, or instructions can be provided for field drilling and tapping. Breathers and drains must be ordered separately. Maximum trade size for Group B application is 4".