

Parameters of Aluminum Alloy Junction Box



Article Overview

Aluminum alloy junction boxes are robust enclosures designed for industrial and hazardous environments, offering IP65–IP67 protection, explosion-proof certifications, and versatile internal configurations.

Material and Construction

Aluminum alloy junction boxes are typically made from low copper content aluminum alloys, providing high mechanical strength, corrosion resistance, and excellent heat dissipation . The body and lid are often die-cast or fabricated with stainless steel cover bolts, internal/external earth screws, and silicone gaskets to ensure a secure and sealed enclosure . Many models feature RAL 7035 polyester coatings for additional environmental protection .

Protection Ratings

- IP66/IP67: Dust-tight and protected against powerful water jets or temporary immersion .
- IP65: Common for terminal junction boxes, providing protection against dust and low-pressure water jets .
- Impact resistance: Die-cast aluminum boxes are more impact-resistant than plastic alternatives .

Explosion-Proof and Hazardous Area Certifications...

Article Content

Junction Box with Terminals, JBE1 Series

Application The JBE1 junction boxes are designed for tap, splice or connecting of conductors for control, instrument or power circuit.

JUNCTION BOX IN DIE-CAST ALUMINIUM

Made of die-cast aluminium. In addition to junction and connection, they are also used in automation applications. The offer includes

Products

Junction box SA...SAG series junction boxes are made from aluminium alloy and given an electrostatically applied epoxy coating

Electric Junction Boxes of Aluminium

At Conex Aluminium Components, we specialize in manufacturing **Electric Junction Boxes of

Aluminium Enclosures

Metalmech Engineering is India's leading manufacturer & supplier of Enclosure Box, Aluminium

Junction Box Aluminium (Ex d) EJB-A

EJB A series Ex d enclosures are normally used in the chemical and petrochemical plants, offshore platforms, refineries and any

Junction Box Waterproof Aluminum Enclosure Why Choose that?

Discover how a junction box waterproof aluminum enclosure protects electronics from water, dust, and impact in

Industrial Aluminium Junction Boxes | Raychem RPG

Robust die-cast, Powder Coated aluminium enclosures conforming to Protection Category IP 66, IP67 and IP 68 and Impact

How to Choose the Best Junction Box Aluminium: Buying Guide 2026

A junction box aluminium is a protective enclosure used to house electrical connections, splices, and terminations.

Aluminum Terminal and Junction Boxes | nVent HOFFMAN

Durable material with high impact resistance, aluminum can provide a strong solution for heavy industrial environments Excellent

DIECAST ALUMINIUM TERMINAL JUNCTION BOX

IP65 protection class and impact resistant diecast aluminium terminal junction box. Diecast aluminum box has superior heat

Products

EJB series junction boxes are suitable for installation in any areas of a plant where there is a risk of explosion and/or classified as

Aluminium Junction Box

The Aluminium Junction Box by Phoenix Mecano is a highly rugged industrial enclosure made of AlSi 12, specifically engineered for

Aluminum Enclosures (Type 4X)

Here is a guide for understanding why Aluminum Junction Boxes are the ideal choice for safeguarding electrical connections in

Exploring Alloys Aluminum Junction Box: Material Composition,

Discover the material composition, industry standards, and best practices for alloys aluminum junction box. Explore

Ex d Junction Box Aluminium EJB-A | Supermec

EJB A series Ex d enclosures are normally used in the chemical and petrochemical plants, offshore platforms, refineries and any

Terminal and Junction Boxes Selection Guide: Types, Features ...

Description Terminal and junction boxes are used to house electrical components and facilitate wiring. Selection Considerations

Cast aluminium Ex d junction and terminal boxes

They are made from a copper-free cast aluminium alloy, which makes them incredibly resistant to damage from seawater. R.

Ex e junction boxes and terminal boxes aluminium

Ex e junction boxes and terminal boxes aluminium The aluminium terminal boxes from manufacturer R. STAHL are suitable for safe

BBOX Enclosures | Aluminium Die Cast Enclosures

BBOX Enclosures manufactures heavy duty aluminium die cast enclosures and junction boxes engineered

TECHNICAL DATA SHEET 0000 eoe ee Cast aluminum steel control/junction box

number represents complete hinge sets necessary for enclosure assembly Enclosures are pre-drilled for hinge kits unless otherwise

Aluminum Terminal and Junction Boxes

The aluminium terminal box range, HALP, with a IP 66, 67 protection degree, is available off the shelf in many different sizes. The

Unlocking the Potential of Aluminium Extrusion in

Thirdly, Aluminum is non-magnetic, reducing the chances of any electronic interference on

Aluminum enclosures | Terminal box | Junction box

Aluminum enclosures proven as a junction box or terminal box in industry. For mounting terminal blocks,

IP66 Aluminum Waterproof Junction Box

The series of waterproof junction box is made of aluminum alloy die-casting, waterproof rating is IP66. Adopting silicone sealing strip,

Type 4X Aluminum Junction Box (1414 N4 AL Series)

The Hammond 1414 N4AL series of aluminum junction boxes can be used as instrument enclosures, control housings, and terminal

Contact Us

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