



FZA 160-12 Akusan Technical Specifications and Industrial Applications

FZA 160-12 Akusan Technical Specifications and Industrial Applications

Decoding the FZA Series Controllers

When dealing with industrial control systems, the FZA 160-12 Akusan represents a specialized solution for hazardous environments. Part of the FZA series developed by Huimin Explosion-proof Electric, these controllers combine three critical protections: waterproof, dustproof, and corrosion-resistant capabilities.

Core Technical Parameters

Operating voltage: 12V/24V DC (customizable)

Protection class: IP66/IP67 (environment-dependent)

Temperature range: -40°C to +85°C

Contact configuration: 1NO+1NC (16A rating)

Housing material: Marine-grade aluminum alloy

Industrial Implementation Scenarios

In the petrochemical plant explosion-proof upgrade project at Zhenhai Refining Base, engineers replaced 142 traditional controllers with FZA-160 series units. Post-installation data showed:

Metric Improvement

Maintenance frequency Reduced 68%

Failure rate Decreased 82%

Mean time between failures Increased from 8,000 to 23,000 hours

Certification Compliance Matrix

The FZA 160-12 Akusan meets multiple international standards:

ATEX Directive 2014/34/EU (Zone 1/21)

IECEX IEC 60079-0/1

GB 3836-2010 (Chinese national standard)

3C certification for explosion-proof components

Customization Capabilities

Huimin's engineering team can modify:



FZA 160-12 Ak^{1/4}san Technical Specifications and Industrial Applications

- Contact material (AgSnO₂ or AgNi variants)
- Enclosure dimensions (+-15% from standard)
- Terminal types (screw/spring/plug-in)
- Add auxiliary contacts or status indicators

Recent smart factory projects have integrated IoT modules into standard FZA controllers, enabling real-time contact wear monitoring through embedded sensors. This innovation reduced unplanned downtime by 41% in automotive manufacturing applications.

Installation Considerations

- Minimum bending radius: 8x cable diameter
- Torque specifications: 1.2-1.5 N.m for M20 cable glands
- Ambient humidity:

Web: <https://silichibaby.co.za>