

## FZA 160-12 Aküsan Technical Specifications and Industrial Applications

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Decoding the FZA Series Controllers

When dealing with industrial control systems, the FZA 160-12 Ak?san 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:

MetricImprovement Maintenance frequencyReduced 68% Failure rateDecreased 82% Mean time between failuresIncreased from 8,000 to 23,000 hours

Certification Compliance Matrix The FZA 160-12 Ak?san 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:



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Contact material (AgSnO? 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:

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