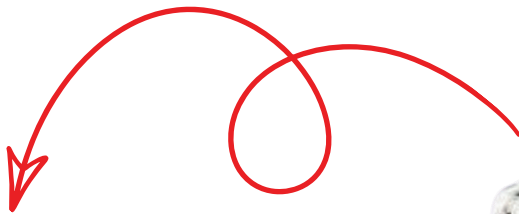


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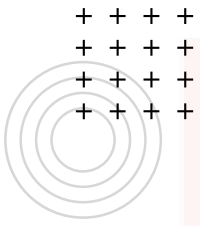
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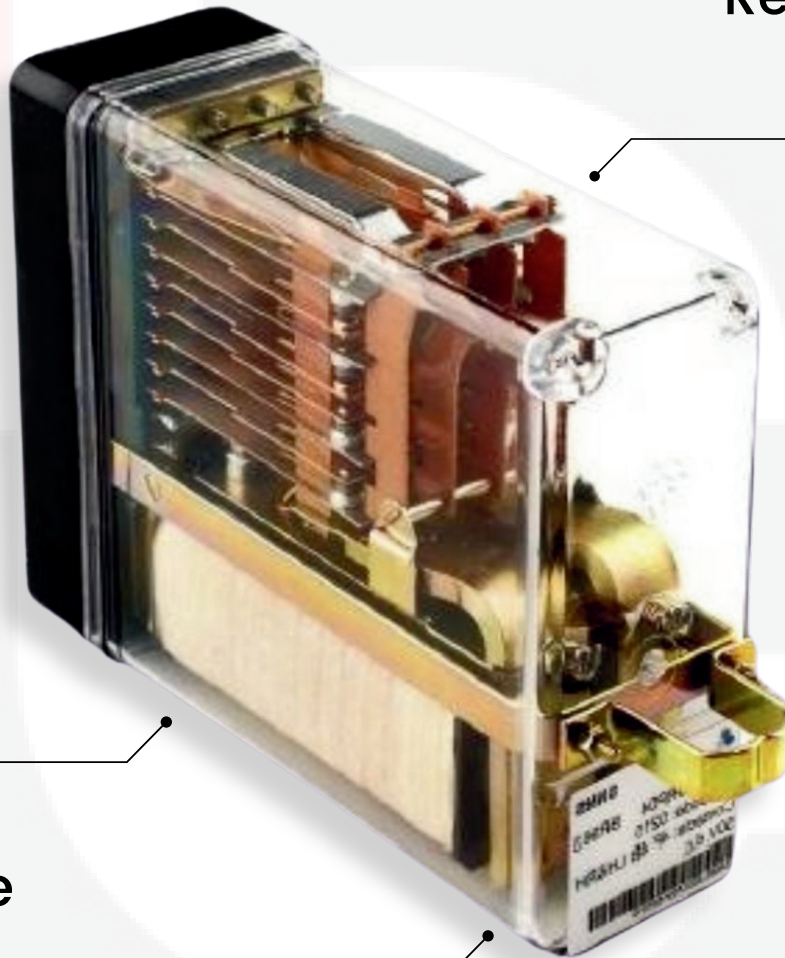
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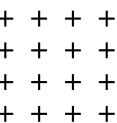
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High Contact Reliability



Long Service Life

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# RELAY OVERVIEW



Our relay solutions deliver dependable, precise, and easy-to-integrate switching for critical railway signaling and control systems. Built for rugged field conditions and compliant with RDSO/TEC standards, these relays are trusted across railway interlocking, safety, and automation applications. Engineered for long service life, consistent performance, and operational safety, they ensure your signaling infrastructure remains reliable, secure, and future-ready.

## KEY FEATURES:

- ▶▶ AC immunized design to resist induced voltages
- ▶▶ High-reliability silver alloy contacts
- ▶▶ Twin or single neutral line configurations
- ▶▶ Rugged construction for field and indoor environments
- ▶▶ RDSO/TEC approved and compliant

## WHY CHOOSE ECOMTELCO OTDRs?

- ▶▶ Wide range of models for diverse signaling needs
- ▶▶ Proven reliability in safety-critical railway systems
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## QNAA1 - RELAY

The QNAA1 Relay is a compact and high-performance time delay relay designed for automation and control systems. Engineered for precision and reliability, it enables effective control logic implementation in electrical circuits. With configurable delay settings and robust construction, this relay is an ideal choice for industrial, commercial, and infrastructure-based switching applications.

### KEY SPECIFICATIONS:

- Type: Time Delay Relay
- Model: QNAA1
- Operation Mode: Delay ON (Energized after delay)
- Voltage Rating: 220V AC (Other voltages available)
- Frequency: 50/60Hz
- Contact Type: SPDT (Single Pole Double Throw)
- Time Delay Range: 0.1s to 10s (adjustable)
- Mounting Type: DIN rail mounting
- Indicator: LED indication for coil status
- Body Material: Flame-retardant plastic
- Weight: Approx. 110 g

### HIGHLIGHTS:

- AC immunized design for immunity against induced voltages
- Twin neutral line configuration for improved safety
- High contact reliability and long electrical life
- Ideal for railway signaling, interlocking, and control circuits
- Built for rugged outdoor and indoor environments

## QNA1- REALY

The QNA1 Type AC Immunized Q-Series Neutral Line Relay is a high-reliability signaling relay widely used in railway interlocking and control circuits. Featuring AC immunization for immunity to induced voltages and a single neutral line design, it ensures precise and dependable switching performance.

### KEY SPECIFICATIONS:

- Type: AC Immunized, Neutral Line Relay
- Series: Q Series
- Coil Voltage: 24V DC
- Current Rating: As per RDSO specifications
- Contact Configuration: 8F-8B (8 front & 8 back contacts)
- Contact Material: Silver alloy, high conductivity
- Insulation Resistance: >1000 MΩ at 500V DC
- Dielectric Strength: 2kV AC for 1 minute
- Operating Temperature Range: -10°C to +70°C



### HIGHLIGHTS:

- AC immunized design to mitigate induced voltage effects
- Neutral line operation with reliable contact performance
- High contact durability for long service life
- Engineered for railway signaling and interlocking applications

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## QNN1 - RELAY

The QNN1 Type AC Immunized Q-Series Twin Neutral Line Relay is a rugged and reliable signaling relay designed for railway interlocking and control circuits. With AC immunization for immunity against induced voltages and a twin neutral line design for added safety and redundancy, it delivers dependable switching performance even under harsh field conditions.

### KEY SPECIFICATIONS:

- Type: AC Immunized Relay
- Series: Q Series
- Coil Voltage: 24V DC
- Current Rating: As per RDSO specifications
- Contact Configuration: 6F-1B (6 front & 1 back contact)
- Contact Material: Silver alloy for low resistance and high conductivity
- Insulation Resistance: >1000 MΩ at 500V DC
- Dielectric Strength: 2kV AC for 1 minute
- Operating Temperature Range: -10°C to +70°C
- Mounting Type: Base plate or standard Q-type relay socket
- Compliance: Conforms to RDSO/SP/RE/55/2002 or latest

### HIGHLIGHTS:

- Twin neutral line configuration for enhanced operational safety
- AC immunized to resist induced voltages in track circuits
- High electrical and mechanical life for long-term reliability
- Suitable for railway interlocking and control signaling
- Robust build for demanding indoor and outdoor applications

## QECX61- REALY

The QECX61 Type AC Immunized Q-Series Relay is a precision-engineered signaling relay specially designed for railway interlocking and control systems. Featuring AC immunization to withstand induced voltages and high-reliability contacts, the QECX61 offers dependable performance in critical signaling applications.

### KEY SPECIFICATIONS:

- Type: AC Immunized Relay
- Series: Q Series
- Coil Voltage: 24V DC
- Current Rating: As per RDSO specifications
- Contact Configuration: 6F-1B (6 front & 1 back contact)
- Contact Material: Silver alloy for low resistance and high conductivity
- Insulation Resistance: >1000 MΩ at 500V DC
- Dielectric Strength: 2kV AC for 1 minute



### HIGHLIGHTS:

- AC immunized for immunity to induced AC voltages in track circuits
- Compact and precise design with reliable switching characteristics
- Ideal for interlocking, signaling, and safety-critical circuits
- Long electrical and mechanical life for minimal maintenance

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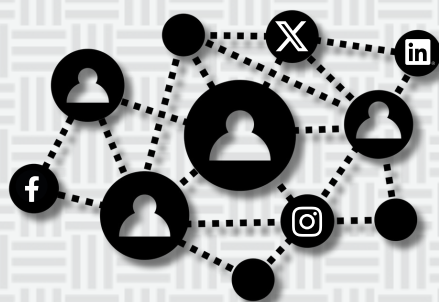
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