

Top 10 Monitoring Relays (by US sales)

Use cases



HRN-31

(replaces HRN-33, -63)

1P AC/DC Multifunction
Voltage Monitoring Relay

Described Function
Overvoltage Monitoring

Manufacturing

CNC Machining Center

Prevents CNC machine control unit damage by monitoring for states above the voltage limit.

Maintains operational precision, reduces downtime, and repair costs by ensuring voltage is within safe limits for the equipment.



HRN-32/2

(replaces HRN-35)

1P AC/DC Multifunction
Voltage Monitoring Relay

Described Function
Dual Overvoltage Monitoring

Data Centers

Dual Power Supply Units for Servers

Prevents server power supply damage by monitoring for states above the voltage limit.

Maintains operational safety, reduces downtime and repair costs by ensuring voltage is within safe limits for each power circuit.



HRN-36

(replaces HRN-34, -64)

1P DC Multifunction
Voltage Monitoring Relay

Described Function
Overvoltage + Latch

Public Transportation

Ticket Vending Machines

Prevents vending machine failure by monitoring for states above the voltage limit.

Maintains service reliability, reduces downtime, and repair costs by ensuring voltage is within operational safety limits.



HRN-39

(replaces HRN-37, -67)

1P AC/DC Multifunction
Voltage Monitoring Relay

Described Function
Undervoltage Monitoring

Healthcare

Medical Laboratory Refrigerators

Prevents damage to sensitive samples by monitoring for states below the voltage limit.

Ensures critical temperature control is maintained, reduces risk of sample spoilage, and supports compliance with healthcare standards.



HRN-56

3P AC Overvoltage and
Phase Monitoring Relay

Described Function
Phase Failure Monitoring

Utilities

Electrical Substation Transformer

Detects phase failure in transformers to prevent damage and maintain power distribution efficiency.

Ensures consistent electrical supply, reducing the risk of power outages and associated costs by maintaining grid reliability.

Top 10 Monitoring Relays (by US sales)

Use cases



PRI-32 1P AC Overcurrent Monitoring Relay

Described Function
Overcurrent Monitoring

Commercial Kitchens Industrial Ovens

Ensures consistent heating and prevents damage to heating elements by monitoring overcurrent conditions.

The external shunt is well-suited to high-heat environments, safeguarding kitchen operations and food quality.



PRI-34 1P AC Multifunction Current Monitoring Relay

Described Function
Window

Renewable Energy Solar Panel Inverters

Prevents inverter damage by monitoring for current outside operational ranges.

Maintains system efficiency, reduces downtime, and repair costs by ensuring current is within safe limits for the equipment.



PRI-51 1P AC Overcurrent Monitoring Relay

Described Function
Overcurrent with Hysteresis

Construction Electric Floor Heating

Prevents floor heating system overload by monitoring for current beyond safe limits.

Enhances safety and efficiency, using hysteresis to minimize unnecessary switching, maintaining a consistent and optimal heating environment.



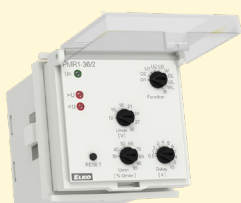
PMR1-31 1P AC/DC Multifunction Voltage Monitoring Relay

Described Function
Window + Latch

Industrial Automation Automated Assembly Line Equipment

Monitors voltage levels to ensure automated equipment operates within safe electrical conditions.

The latch function locks the system in a safe state, requiring a manual restart, preventing damage due to persistent unstable conditions.



PMR1-36/2 1P DC Multifunction Voltage Monitoring Relay

Described Function
Dual Window Monitoring

Water Treatment Pump Control Systems in Water Distribution

Ensures pumps operate within precise voltage windows, critical for water flow consistency.

Dual circuits allow monitoring of two systems, improving reliability and efficiency in water distribution.