

Bounce-Free High-Current Mercury-Wetted Reed Relay (HGSR)

Model: HGSR / HGMR Series

Product Overview

Zero-contact-bounce mercury-wetted reed relays with 2.0A switching capability and constant milliohm contact resistance across over 1 billion cycles.

Key Features

- Absolute zero contact bounce for precision instrumentation and timing circuits
- Constant contact resistance (<20 mOhm) throughout entire operational lifetime
- High power rating: 50W to 100W, switching current up to 2.0A DC
- Immense operational lifespan exceeding 10^9 operations (1 billion cycles)
- Hermetically sealed glass capsule prevents contact oxidation and arcing

Typical Applications

- Automotive & Commercial Vehicles
- Industrial Machinery & Automation
- Electric Vehicles (EV & FCEV)
- Safety Interlocks & Control Systems

Technical Specifications

Parameter	Specification / Technical Value
Switching Voltage	Max 500V DC / 500V AC
Switching Current	Max 2.0A / Carry Current 5.0A
Contact Power	50W / 100W
Contact Resistance	< 20 mOhm constant
Contact Bounce	0.0 ms (Zero bounce)
Expected Life	> 10^9 operations