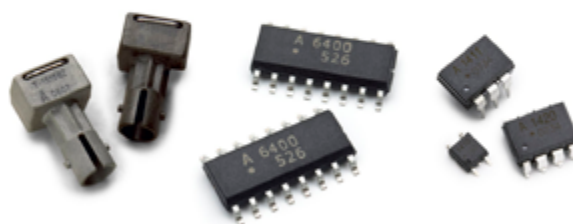


The Avago Advantage



Applications Solutions

Avago Technologies Solutions for **Industrial Valve Control Systems**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for **Industrial Valve Control Systems**

Avago Technologies provides solutions for industrial networking applications such as industrial valve control units. Optocouplers are used to maintain data integrity, thereby eliminating ground loop current and common mode noise. We also provide multi-channel and bi-directional optocouplers that operate at both 3V and 5V. Optocouplers will commonly be used where a copper-based network is being used.

To meet longer run networking needs, the Avago plastic optical fiber (POF) based solutions are a good fit because the fiber can be run very close to EMI producing devices without compromising the data link.

Control of the actual valve actuators (usually solenoids) is achieved using isolated relay coil drivers which provide electrical isolation.

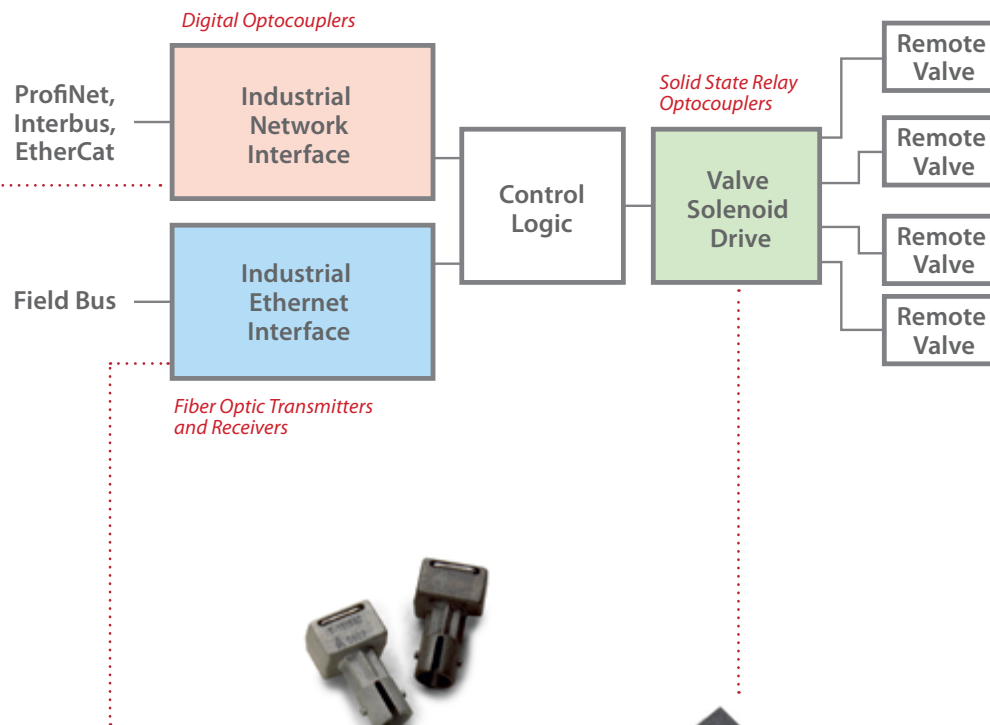


Digital Optocouplers

Avago digital optocouplers provide low power, multi-channels and a wide speed range portfolio for digital isolation without compromising on high voltage insulation and noise isolation performance.

Featured Products

- Logic Gate Digital Optocouplers
- 1MBd Open-Collector Output Digital Optocouplers
- Multi-Channel Bi-Directional Digital Optocouplers
- 15/25MBd High Speed Digital CMOS Optocoupler



Fiber Optic Transmitters and Receivers

Avago industrial fiber optic transmitters and receivers operate reliably for data transmission over fiber in applications that require the highest electrical isolation between the transmitter and receiver. Due to their insensitivity to electromagnetic radiation, these devices are suitable for use in surroundings with EMI present such as those found in industrial and factory environments.

Featured Products

- 125MBd Industrial Fast Ethernet Transceiver over Plastic Optical Fiber
- Optical Transmitter and Receiver for Industrial Applications with ST Port
- 10MBd Optical Transmitter and Receiver for PROFIBUS applications
- 2MBd Optical Transmitter and Receiver for INTERBUS-S applications

Solid State Relays

Avago solid state relays are optical isolation products that offer the ability to electrically isolate long relay control lines while driving up to 2.0A. These solid state relays are superior to traditional electro-mechanical relays because of their high level of integration, smaller size, faster switching speed, high-voltage insulation, lower power consumption, and greater reliability. They are suitable for remote relay and solenoid valve control in industrial systems.

Featured Products

- General purpose Solid State Relays
- High Current Single and dual-channel Solid State Relays
- Hermetically Sealed Power MOSFET Optocouplers

Your Imagination. Our Innovation



Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve three primary target markets: wireless communications, wired infrastructure, and industrial and other. Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard roots.

Avago products serve three diverse end markets

Wireless Communications serving the smartphone/handset and Base Station infrastructure markets with leading-edge products that include:

- Power Amplifiers
- Front End Modules
- Film Bulk Acoustic Resonator (FBAR) Filters
- GPS/GLONASS LNAs
- Optical Finger Navigation
- LED Backlighting, Screen Illumination
- Ambient Light and Proximity Sensors

Wired Infrastructure for switches/routers, data centers, supercomputers and storage/servers with products that include:

- 168Gb Parallel Optic Arrays
- 28Gb SerDes ASICs in 28nm
- Storage Fibre Channel Transceivers
- QSFP+/SFP+ Ethernet Transceivers

Industrial and Other for alternative energy power generation, electronic sign and signals, automated manufacturing, automotive lighting, GPS/GLONASS navigation, motor inverter system, battery charging and management, infotainment systems and vehicle safety systems with products that include:

- Inverters
- Isolation and Digital Optocouplers
- Motion Control Optical & Magnetic Encoders
- Polymer Optical Fiber
- Indicator and Display LEDs



Contact us for your design needs at: www.avagotech.com

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