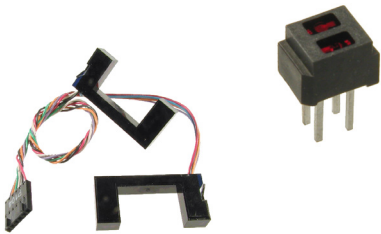


### Flexsense™ Encoder

A revolutionary optical sensor array that can be programmed for a wide range of code-wheel diameters and resolutions in addition to compatibility with various LED wavelength spectrums.

### Features

- Analog or digital quadrature-track output
- Auto-configuration simplifies assembly and alignment
- IR LED embedded in the same package, with closed-loop LED drive control

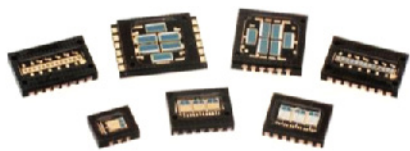


### Reflective and Slotted Switches

Along with a broad portfolio of optical switches, TT Electronics offers customised solutions to meet the exact requirements of your application. These custom sensor assemblies can come with a wide variety of packages and sensitivities including the integration of PCBs, cables, and connectors.

### Applications

- Non-contact object sensing
- Assembly line automation
- Machine control & safety
- End of travel sensing
- Door / window closure

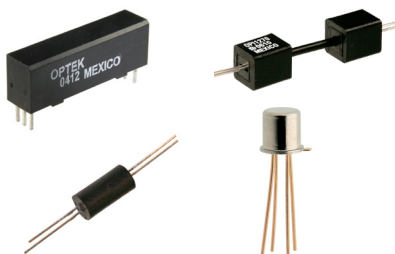


### Hybrids

Our hybrid family consists of GaAlAs LEDs, photodiodes, photodiode arrays, phototransistors, and VCSELs. All devices have wide operating temperatures and are manufactured with controlled tolerances ( $\pm 0.005''$ ). We can package any die in a standard or custom frame.

### Applications

- Machine automation
- Patient monitoring
- Optical encoding
- Non-contact, reflective, and transmissive sensing

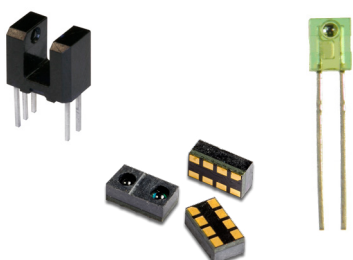


### Optocouplers and Optoisolators

Our optoisolators are available in hermetic and plastic component configurations with isolation voltage ranging from 6KV up to 50KV. Creepage of 32mm or higher is available for demanding applications. Our optoisolators offer high dV/dt for electrical noise immunity.

### Applications

- Power supply
- IGBT drive
- Defibrillator



### Component Devices

TT Electronics' components consist of GaAlAs/GaAs LEDs, photodarlington transistors, photodiodes, Photologic® detectors, phototransistors and VCSELs. Components are available in both metal packages (Pill, TO-5, TO-18, TO-46) and plastic packages (T-1, T-1, 3/4, endlooker, sidelooker).

### Applications

- Assembly line automation
- End of travel sensor
- Machine automation

From concept to manufacture, our engineering teams aim to build partnerships with customers to provide enhanced solutions for performance critical technologies.

### High-Reliability JAN Isolators



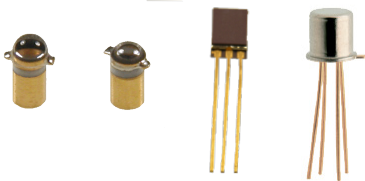
### Key Features and Benefits

- Choice of hermetically sealed TO-78 package or surface mountable SMD/LCC package
- High current transfer ratio
- 1 kV electrical isolation
- Processed to MIL-PRF-19500

### Applications

- Military equipment
- Aerospace vehicles
- Space launchers and satellites
- Other harsh environments

### High-Reliability COTS



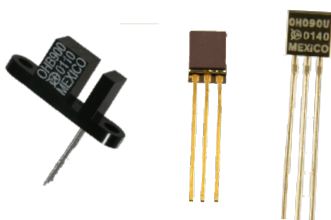
### Key Features and Benefits

- Product offering of GaAlAs/GaAs LEDs, phototransistors, photodiodes, Photologic® detectors (integrated detector), VCSELs
- Available in hermetic metal packages and plastic packages
- Available in custom designs at OEM volumes
- Shorter lead times than other off-the-shelf solutions

### Applications

- Military equipment
- Aerospace vehicles
- Space launchers and satellites
- Medical
- Other harsh environments

### High-Reliability - Hall Effect



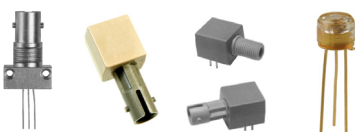
### Key Features and Benefits

- Reliable performance up to S level
- Extended service life
- Plastic and ceramic packages available
- Unipolar, bipolar, and ratiometric outputs
- Excellent temperature stability
- MIL-STD-883, 100% processing and QCI

### Applications

- Military equipment
- Space launchers and satellites
- Harsh environments

### Fiber Optics



### Key Features and Benefits

- Point source GaAlAs LEDs
- Integrated receivers, photodiodes, ST-connectorized components (actively aligned) and VCSELs

### Applications

- Copper-to-fiber media conversion
- HVAC EMI immunity
- Industrial ethernet equipment

We offer discrete products that can be screened 100% and QCI tested (Group A, B, C, & D) per MIL-PRF-19500 to MIL-STD-750 for TX and TXV and per MIL-PRF-38535 to MIL-STD-883 method 5004/5005 for B, S & ESA process levels.