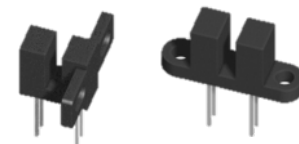# Optoelectronics for Medical

PRODUCTS SERVED

- Defibrillators
- Modular infusion systems
- Electronic ambulatory devices
- Infusion pumps
- Fluid management pumps
- Angiographic monitors
- Urinalysis devices
- Anesthesia dispensing
- Blood, gas and electrolyte analysis
- Oximetry probes
- Glucose monitors
- Electronic scalpels
- Light therapy lamps and LED arrays
- Illumination/lighting
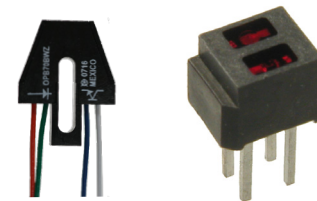
APPLICATION REQUIREMENTS

- Material dosage
- Liquid level
- Blood oximetry
- Object in place
- Bubble detection
- Circuit isolation
- Flow rate
- Skin care therapy
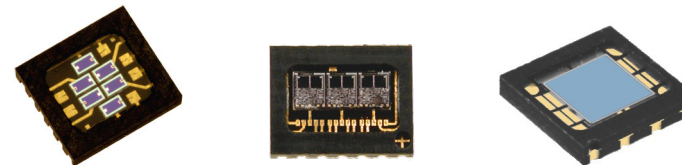- Backlighting X-Rays imagers
- Work station lighting

SLOTTED SWITCHES

REFLECTIVE OBJECT SENSORS - MOTION OR POSITION

SURFACE MOUNT CHIP CARRIERS

In addition to our extensive range of standard sensors that can be used for critical medical applications, our engineers can customise a solution to meet the specific needs of your application.
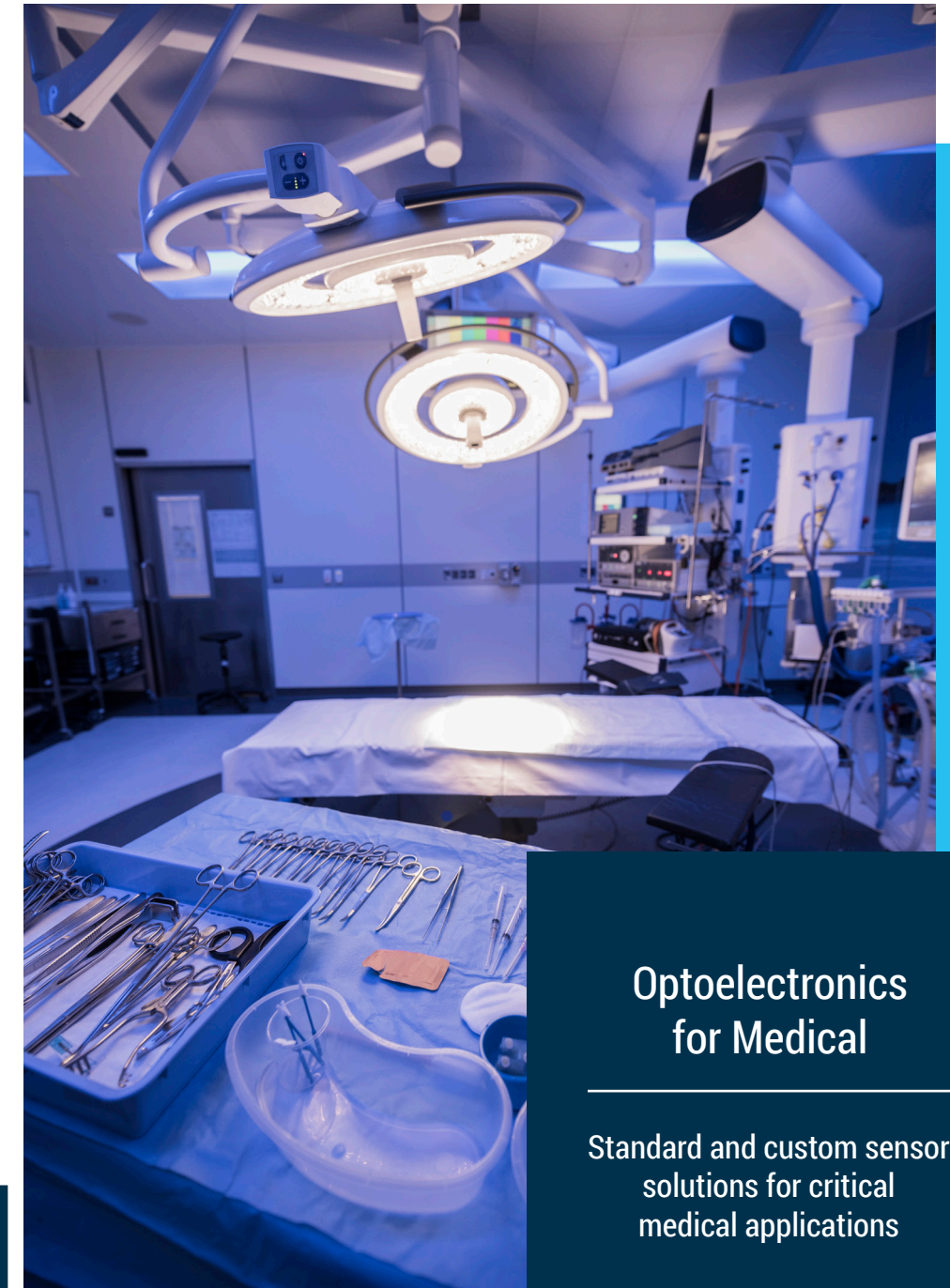
Contact our team today!

972.323.2200

TT Electronics
2900 E. Plano Parkway
Floor 1, Suite 100
Plano, TX 75074

WWW.TTELECTRONICS.COM

Engineering Smarter Solutions Together

Optoelectronics for Medical

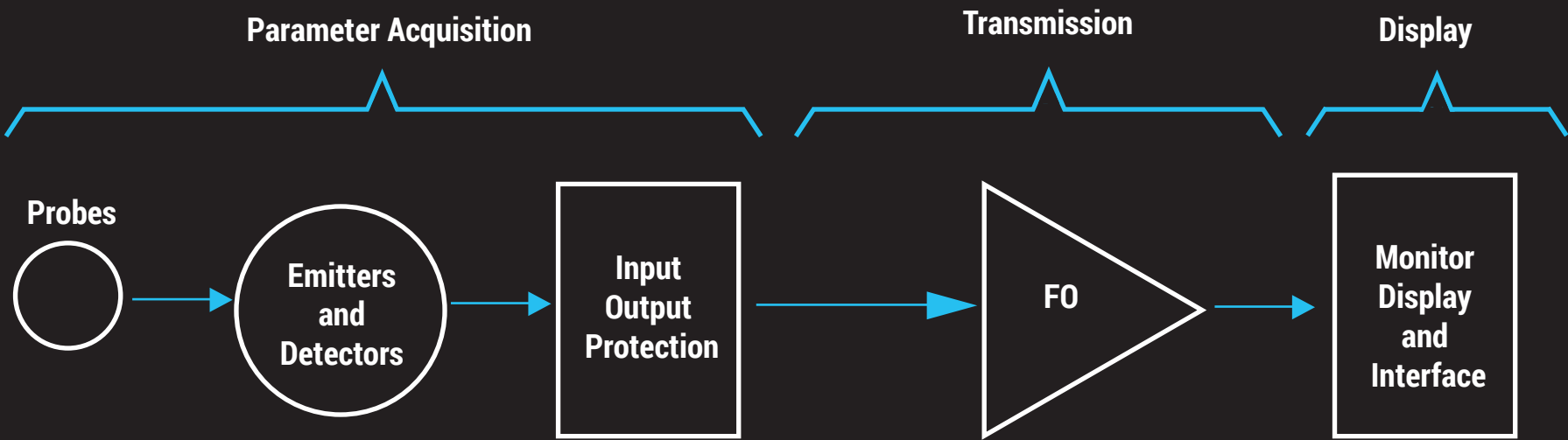Standard and custom sensor solutions for critical medical applications

WHAT WE OFFER

We provide **non-contact, Hall-effect sensors, infrared optical switches and optical arrays** that can detect presence of objects, fluid level or a fluid inside of a tube.

These sensors are ideal for IV Diagnostic equipment manufacturers that need non-contact measurement and analysis, and presence detection of material.
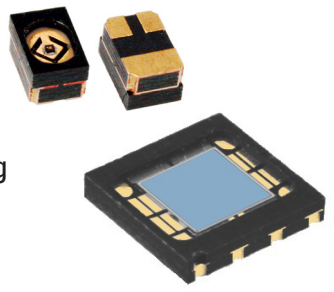
Unlike other technologies such as mechanical, ultrasound or capacitance-based components, our optical devices allow for greater **stability, reliability and accuracy,** as well as **optimised form, fit and connectivity.**

We have got you covered for all aspects of your medical application.

Parameter Acquisition **Transmission** **Display**

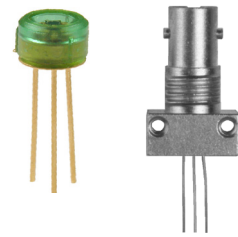Probes → Emitters and Detectors → Input Output Protection → FO → Monitor Display and Interface

LED/Photodetector

- Multi-wavelength
- For detecting various parameters using spectral (light) analysis

Fiber Optics

- Signal, transmit and receiver

Optoisolators

- Equipment and human interface protection

Visible LEDs

- Lighting stations and warning LEDs