

INTRODUCING

SpO₂ OPTICAL COMPONENTS

- Enable precision with the red LED wavelength tolerance up to 660nm ± 2nm
- Provide high reliability and near flawless quality

Low oxygen level can put a strain on cell functioning including the heart and brain. This is critical in acute medical situations like post-op recovery.

TE Connectivity's (TE) SpO₂ optical components provide leading accuracy in oxygen level detection.

With more than 27 years of proven reliability and expertise, TE has designed SpO₂ sensors with best in-class flexibility to accommodate multiple wavelength options. Our ability to provide both components and complete sensor packages make us the leading choice for pulse oximetry applications that require high degrees of precision, durability and performance.

KEY BENEFITS

- Enable precision with the red LED wavelength tolerance up to 660nm ± 2nm driven by proprietary emitters spectrally matched to function with a detector
- Provide high reliability and near flawless quality with more than 27 years' history and more than 25 million components produced
- Support customer's requirements with proprietary emitters with three different IR LED wavelength choices: 880nm, 905nm and 940nm
- Accommodate two different LED wavelengths (both Red and IR) with our dual drive emitters without any compromise to size and lower power consumption
- Meet large component volume requirements with scalable, automated manufacturing
- Provide complete pulse oximetry sensors (reusable and disposable sensors)

PERFORMANCE

ELM-4000

- Package: Lead freem
- Type: Emitter assembly
- Range: 660nm/880-940nm
- Unique Features: Dual drive, clear epoxy lens
- Accuracy: Sensor dependent
- Operating Temp Range: -25°C to 80°C
- Dimensions (mm): 4.4 x 5.1 x 1.8
- Typical Applications: Pulse oximetry, finger and ear probes, disposable

PERFORMANCE

EPM-4001

- Package: Lead freem
- Type: Detector assembly
- Range: 8 mm² PD
- Unique Features: Fast response, high efficiency
- Accuracy: Sensor dependent
- Operating Temp Range: -25°C to 80°C
- Dimensions (mm): 4.4 x 5.1 x 1.8
- Typical Applications: Pulse oximetry, finger and ear probes, disposable

APPLICATIONS

- Patient Monitoring

LEARN MORE

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[Photo Optic Detector Assembly Product Page](#)

[Photo Optic Emitter Assembly Product Page](#)

[Detector Assembly Datasheet](#)

[Emitter Assembly Datasheet](#)

[Trend Paper](#)

[Photo Optic Sensors Catalog](#)

[Sensor Solutions for Medical Applications](#)

[SpO₂ Optical Components Part List](#)

