

BLD | BLOOD LEAK DETECTOR

Optical Clamp-on Sensor for Contactless Detection of Smallest Traces of Blood

PRODUCT BENEFITS

Optical sensor with adapted wavelength

Non-invasive measurement

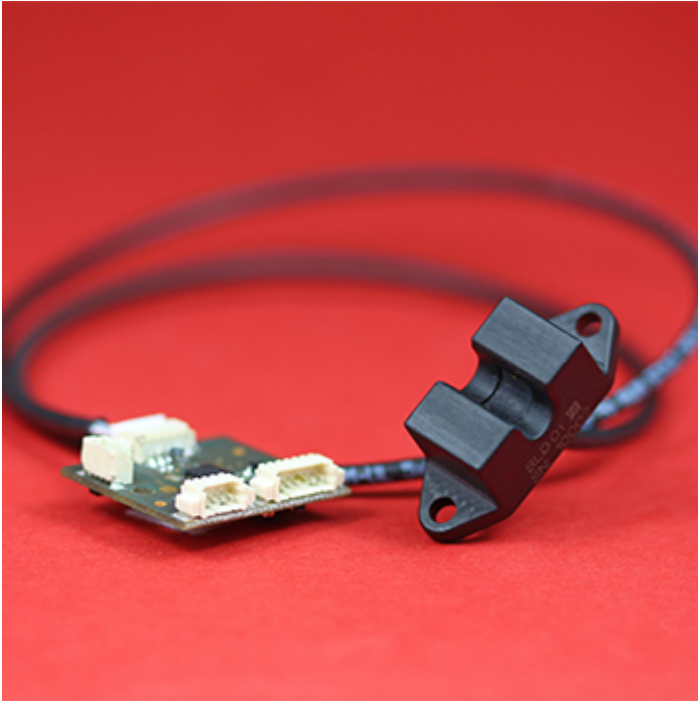
No wear and tear

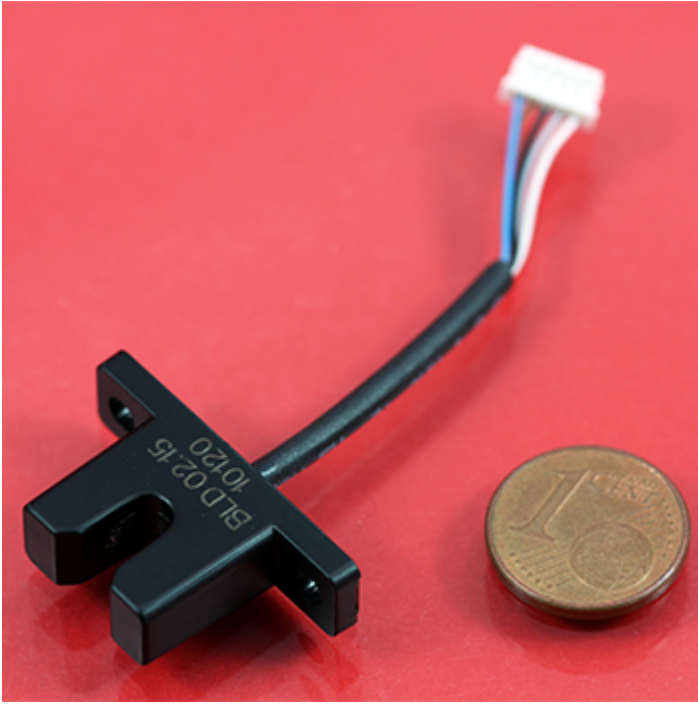
Highly resistant to ambient light

Programming and test kit

Software development according to IEC 62304:2006, class C

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BLOOD LEAK DETECTOR BLD | CONTACTLESS DETECTION OF SMALLEST TRACES OF BLOOD

The optical sensor BLD detects non-invasively smallest amounts of blood in dialysates on transparent tubes. As the wavelength is adapted to the transmittance of blood, the international standard IEC 60601-2-16:2008 for medical electrical devices is fulfilled reliably. Hence, the sensor is able to detect even 0.04 percent of blood in an isotonic saline solution.

TWO CONFIGURATIONS FOR MANIFOLD SPECIFICATIONS

The BLD01 meets high safety standards and features a serial interface. With simple commands, the sensor can be tested and the sensitivity adjusted.

Hence, the BLD02 has been developed strictly according to the software requirements of the international standard IEC 62304:2006, class C and meets highest demands on patient safety and reliability.




INTELLIGENT OPTICAL CLAMP-ON SENSOR

As a clamp-on component the non-invasive sensor with remote electronics is suitable for all tasks that require the optical detection of transmission differences of liquids in transparent tubes. Due to the high sensitivity of the sensor it is even possible to recognize if a tube filled with a clear fluid runs empty. Certified according to ISO 13485 we support you with the documentation necessary for the approval of medical devices on request.

Technical Data

MEASUREMENT PRINCIPLE	Optical, in transmission
TUBING	Transparent plastic tubing
OUTER DIAMETER	5.5 to 7.0 mm
POWER SUPPLY	+3.3 to +5.5 VDC ≤ 50 mA
OPERATING TEMPERATURE	5 to 50 °C
RESPONSE TIME	100 ms
INTERFACES	BLD01: UART BLD02: Digital
STANDARDS	Safety requirements: IEC 60601-2-16:2008 EMC: IEC 60601-1-2:2007
SOFTWARE	BLD02: Development according to IEC 62304:2006, Safety class C

Downloads

Type	Title	Size
	Flyer Blood Leak Detector BLD	1.88 MB
	Data sheet Blood Leak Detector BLD01	146 KB
	Data sheet Blood Leak Detector BLD02	1.05 MB

APPLICATIONS

Hemodialysis

Transmission measurement at tubes

WORLDWIDE



Do you have any questions?

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