LB 6775 Detector

FOR INTEGRATION IN MULTIPHASE FLOW MEASUREMENT SYSTEMS

SiPM technology

The world's first and most robust, radiometric detector based on Silicon Photomultiplier (SiPM) technology.

Output options

Various output options available.

Fast response time

Measure fast changes of density safely and reliably due to a cycle time of only 100 ms.

Microprocessor controlled

Constant monitoring and control of the detector status.

Hazardous areas

Hazardous area rating accoring to ATEX and IECEx.

Robust & water resistant

IP66, designed for harsh operating conditions such as high temperatures, vibration, shock, and water. Maximum robustness against mechanical stress.

Temperature stability

Stable and reliable measurement even at high temperatures and significant temperature fluctuations.

QUALITY
MADE IN
GERMANY

BERTHOLD

TECHNICAL DATA & FACTS

LB 6775 Detector

for integration in Multiphase Flow Measurement Systems

Detector

Application	Density measurement
Power supply	15 … 28 V DC, approximately 1.2 W
Ambient temperature	–20 … +60 °C (–4 … 140 °F) operation –40 … +70 °C (–40 … 158 °F) storage
Temperature stability	≤ 0.002 %/°C (-20 … +50 °C)
Housing material	Stainless steel ISO 1.4404/AISI 316
IP protection	IP66
Scintillator	NaI crystal; Ø 40 mm, H: 50 mm
Photomultiplier	SiPM technology
Dimensions	Ø 50 mm 270 mm length
Weight	approx. 3.2 kg
Communication	RS485 – Modbus RTU
Explosion protection	ATEX, IECEx, FM Approval
Environmental tests	acc. to ISO 13628-6 (subsea standard) concerning temperature, vibration and shock

Special Features

- State-of-the-art SiPM technology
- Automatic voltage control
- Industry-leading measurement cycle time
- Industry-leading temperature stability and mechanical robustness
- Detector self-diagnostics and communications verification
- Service and extensive spare parts program available

LB 6775 · 63039R2 · Rev.00 · 01-2024

Berthold Technologies GmbH & Co. KG

Calmbacher Straße 22 · 75323 Bad Wildbad · Germany
+49 7081 1770 · industry@berthold.com · www.berthold.com