

○ DROPSENSE



- Online quality control
- Fast and easy read-out
- No loss of precious sample
- Contact free droplet detection

OPTICAL DROPLET DETECTION FOR ONLINE MONITORING

The innovative optical droplet sensor enables the detection of micro droplets in flight by measuring the absorption and refraction, caused by a dispensed droplet that passes the sensor's active area. This allows for a non-contact detection of droplet presence as well as further characteristic parameters, like droplet velocity.

Due to its small dimensions, the optical sensor can easily be adapted to different non-contact dispensing systems and droplet generators, like the PipeJet P9 module. It allows for droplet presence detection and droplet counting as well as for qualitative online monitoring of dispensing processes.

APPLICATIONS

Online monitoring of dispensing process

Quality control

Counting of dispensed droplets

Suitable for non-contact dispensing systems

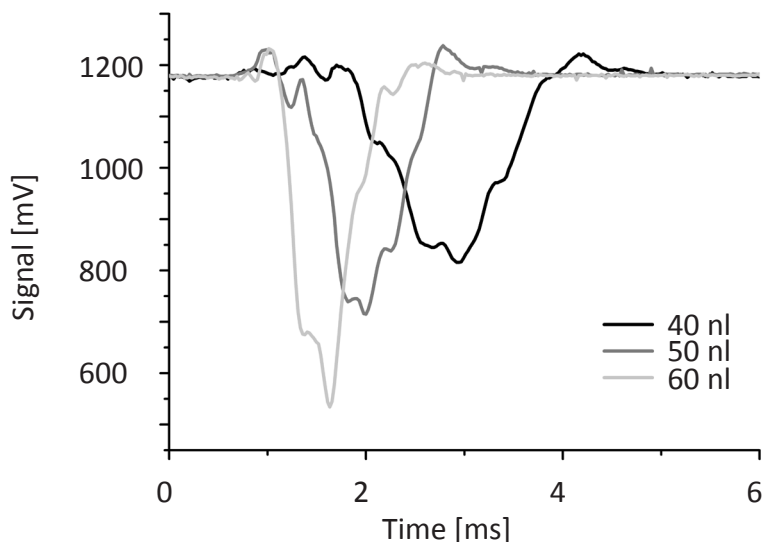


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SIGNAL CHARACTERISTICS

The signal shape and amplitude relates to the droplet characteristics. It delivers qualitative information about the volume, shape and velocity of the droplet in terms of a so called "finger print" signal. The dispensed volume for example influences the amplitude of the signal. The higher the volume, the higher is the negative signal peak. The sensor is designed to work in the near infra-red wavelength range, for this reason it is highly unsusceptible for ambient light.



SPECIFICATIONS

Supply voltage:	5 - 15 V / 5 mA
Output range:	0 - 3 V
Detectable volume range:	1 - 100 nl
Sensor gap:	2.65 mm
Sensor dimensions:	3.4 x 9 x 65.5 (H x W x D)
Order No.:	PJ-50020 E

