

PN3160 RI

Refractive Index Detector



PN3160 Refractive Index Detector

Features

The new PN3160 deflection type differential Refractive Index Detector is a detection system which offers the highest sensitivity combined with exceptional baseline stability at the same time. Thus the system is ideally suited for „flow sensitive“ applications such as FFF and GPC.

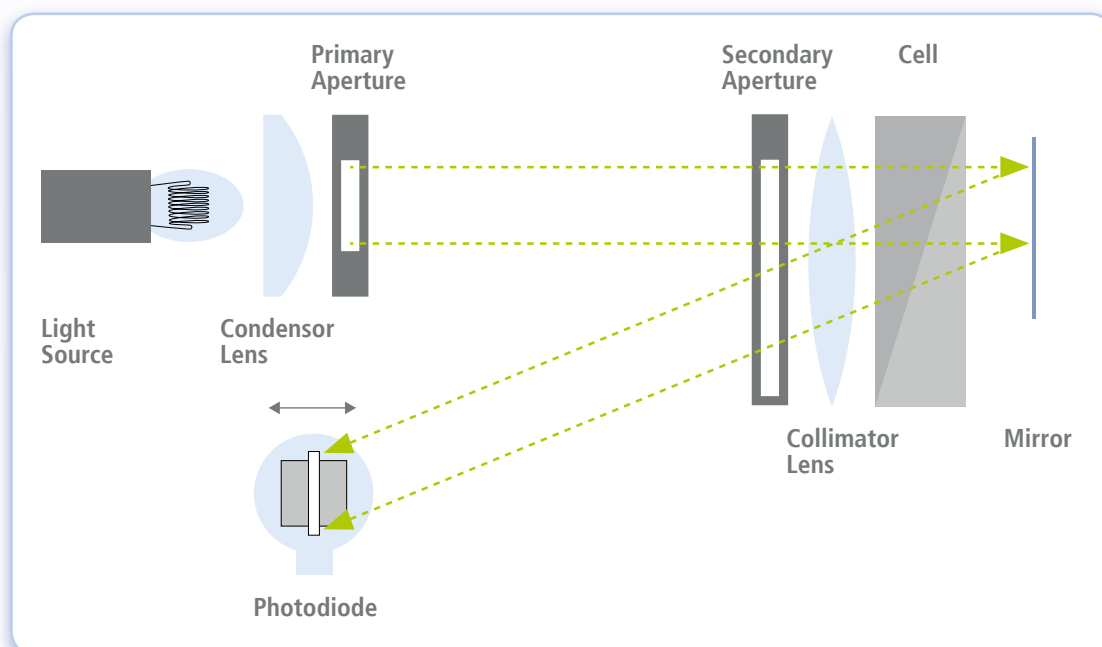
The unit has a removable front cover. The manual touch keys combined with the display allows complete control of the detector without the need for any external software system.

Temperature can be set from 30 – 60 °C in 0.1 °C increments. By using dual temperature control for the optical system the time to stabilize can be reduced. With the stable baseline more accurate analysis can be performed.

The detector fits completely into the Postnova product portfolio and can be combined with all other Postnova systems as well as with chromatography systems from different manufacturers.

The detector is available as High Sensitivity (A Mode) or Semi Prep (P Mode).

The working principle of this deflection type RI detector is shown in the following figure:



Ordering Information

S-DET-3160-001	PN3160 RI Detector
Z-DL-PN3160vis	Detector Lamp

Specifications

- **Detection Principle:**
Deflection type differential RI detector
- **Refractive Index Range:**
1.00 to 1.75
- **Measuring Range:**
A Mode: 0.01 to 500 μ RIU
P Mode: 1 to 5000 μ RIU
- **Linearity:**
A Mode: 500 μ RIU
P Mode: 5000 μ RIU
- **Noise Level:**
0.0025 μ RIU max.
(when filled with water, time constant 3.0 sec, room temperature 25 °C, A Mode)
- **Temperature Settings:**
30 °C to 60 °C in 0.1 °C steps
- **Max. Flow Rates:**
20 mL/min.
- **Maximum Pressure:**
Detector: 0.4 MPa
Flow cell: 1.9 MPa
- **Internal Volume:**
Inlet port to flow cell: approx. 69 μ L
Flow cell to outlet port: approx. 361 μ L
Flow cell capacity: 9 μ L
- **Wetted Materials:**
SST316, PTFE, ETFE, Quartz, Al_2O_3
- **Response Time:**
0.05, 0.1; 0.5; 1.0; 1.5; 2; 3; 6, 8, 10 s
- **Integrator Output:**
0 – 1 V
- **Recorder Output:**
0 – 10 mV
- **Environmental Conditions:**
Relative humidity 20 – 80 %
(non-condensing) at an operating temperature range of 4 – 35 °C
- **Installation environment (IEC)**
Installation category II
Pollution degree 2
Max 2000 meters
Only indoor use
- **Power Consumption:**
150 VA (maximum)
- **Power Requirements:**
100 – 240 VAC @ 50/60 Hz
- **Dimensions (DxWxH):**
420 x 140 x 260 mm
- **Weight:**
12 kg

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