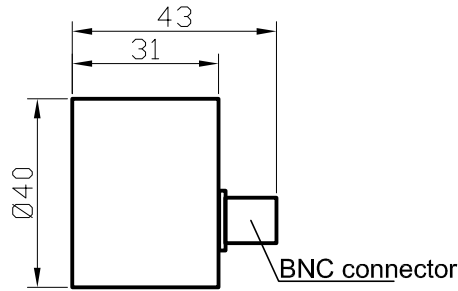


HHL01-S1337

Large-area single-element photodetectors



outer dimensions, mm

This is a robust device consisting of one photodiode. The photodetector offers performance which is characteristic to a single photodiode: large field of view and active area, compact construction and comfortable handling. Due to high back-reflectance, the quantum efficiency of one-element photodetector is significantly less than unity. Nevertheless, by knowing photodiode antireflection coating thickness the spectral reflectance and responsivity can be modelled at any incidence angle and state of beam polarisation. The photodetector consisting of one photodiode can successfully be used in the simple measurements of optical quantities.

Parameter	Detector Model HHL01-S1337	Notes
Active area [mm ²]	324	
Spectral range [nm]	360-950	
Spectral responsivity [mA/mW]	0,2-0,5	Depends on wavelength, almost linear up to 950 nm
Quantum efficiency	0,5-0,7	Incl back-reflection, depends on wavelength
Calibration relative uncertainty [%]	0,5	Responsivity calibration
Maximum optical power density [mW/cm ²]	5	
Maximum back-reflection [% of incoming beam]	<50	@360 nm, depends on polarization
Minimum back-reflection [% of incoming beam]	0,2	@950 nm
Spatial uniformity of the responsivity [%]	±0,2	Scanned @ 632,8nm
Dimensions (approx):*		
Diameter [mm]	40	Dimensions and type of electrical connector upon customer specifications
Length [mm]	31	
Weight (approx)[kg]	0,15	

*The given values are illustrative and may depend on the customer specified features of photodetector