



Light sensor ELV-841



**A detector with regulated current output.
For permanent installation outdoors. Suitable for
control of street lighting and other applications.**

The Hagner Light Sensor ELV-841

The Hagner ELV-841 Light Sensor measures illuminance (or other quantities) with very high accuracy. It consists of a detector and an amplifier with regulated current output characteristic. The case is water tight and fitted with a thermostatically controlled internal anticondensation heater. The regulated current output characteristic allows the sensor to be connected to long lines, e.g. to a remote data logger or computer. The ELV-841 is intended for continuous, stationary use outdoors.

Applications

Typical applications for the ELV-841 include control and regulation of artificial lighting, operation of shades and recording of light quantities. In standard version the light sensor is filtered to give a spectral response close to that of the human eye as defined in CIE standards. (V_{λ} -curve, with cosine correction) The required measuring range is specified with order. Special filtrations can be provided for such applications as IR, UV or narrow-band measurements.

Technical data

Detector	Silicon photodiode, V_{λ} –filtered and cosine corrected (in standard version)
Measurement range	Specified with order (e.g. 0 – 20,000 lux)
Output signal	4 - 20 mA DC
Accuracy	Better than 3%
Max. external resistance	800 ohm
Power supply	24 volt AC (min. 36 VA)
Temperature range	-40°C - +50 °C
IP	65
Heater	8.5 W
Dimensions	100 x 100 x 90 mm (incl. dome but excl. mounting brackets and cable entrance)
Weight	0.5 kg
Mounting	Mounting brackets are provided with the sensor
Connection	3 meters long wire with terminal block at the end (longer cables on request)