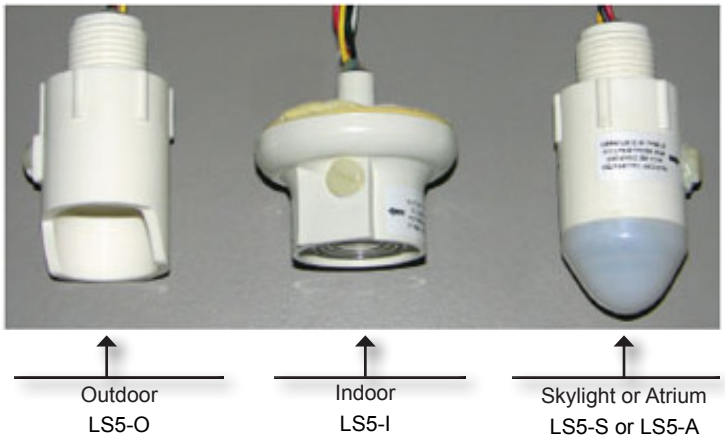
LS5
Light Level Sensor
Data Sheet

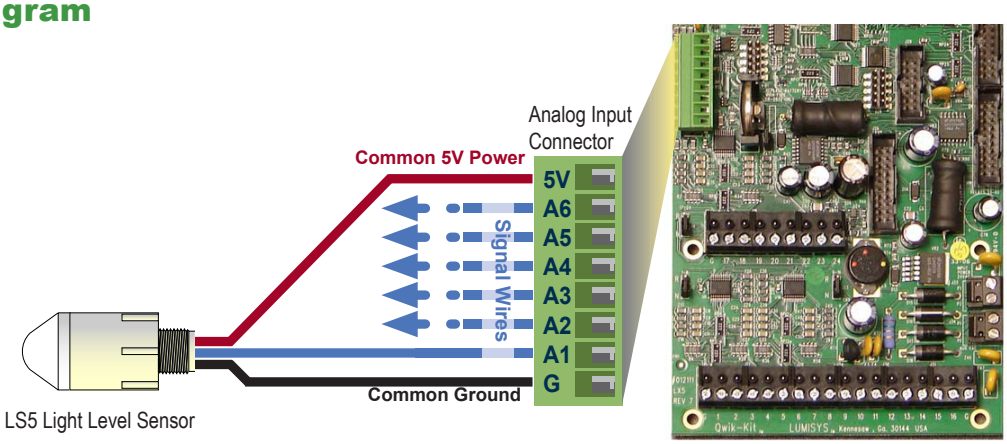
Overview



The LS5 light level sensor is a three wire, 0 to 5VDC, linear photo-diode that is specifically designed to connect directly to Lx5 and Lx6 based products without any additional hardware or power supplies. The Lx5 and Lx6 controllers provide power and monitor the light level via a three wire connection.

The LS5 converts the light signal into a 0-5VDC signal and that value is received by the analog input on the controller. The received value is converted into an analog value and based upon the controllers configuration is represented as foot-candles or lux. The foot-candle or lux value is a network point on the controller that is available to the Building Automation System (BAS) to set-up one or multiple set points to trigger a variety of control sequences from single LS5 light level sensor.

Typical Diagram



Ordering Information

Catalog #	*Description*
LS5-A	Light Level Sensor, 5V Linear Photo-diode for Atrium use
LS5-I	Light Level Sensor, 5V Linear Photo-diode for Indoor use
LS5-O	Light Level Sensor, 5V Linear Photo-diode for Outdoor use
LS5-S	Light Level Sensor, 5V Linear Photo-diode for Sky Light use

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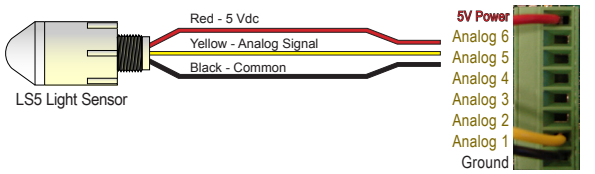
Specifications

Electrical



Accuracy:	1% at 70 F (21 C) 5% at 0 F or at 120 F (-18 C or 49 C)
Sensor Type:	Blue enhanced photo-diode
Wire Type:	#18 AWG (non-twisted, un-shielded wire only)
Wire Distance:	250 feet of wire between the Analog Input Connector and the LS5 Light Sensor
Sensor Power:	5VDC for up to six (6) LS5 lighting level sensors per controller. Power provided by analog input terminals on Lx5 or Lx6 controllers.
Sensor Signal:	0 - 5VDC, Linear

Sensor Ranges

Product	Mounting	Application	Factory Default	Maximum Range
LS5-A	1/2" Knockout	Atrium	0-1000 FC	2000-2500 FC
LS5-I	Ceiling 3/8" Hole	Indoor	0-100 FC	5-750 FC
LS5-O	1/2" Knockout	Outdoor	0-250 FC	5-750 FC
LS5-S	1/2" Knockout	Skylight	0-2000 FC	1000-7500 FC

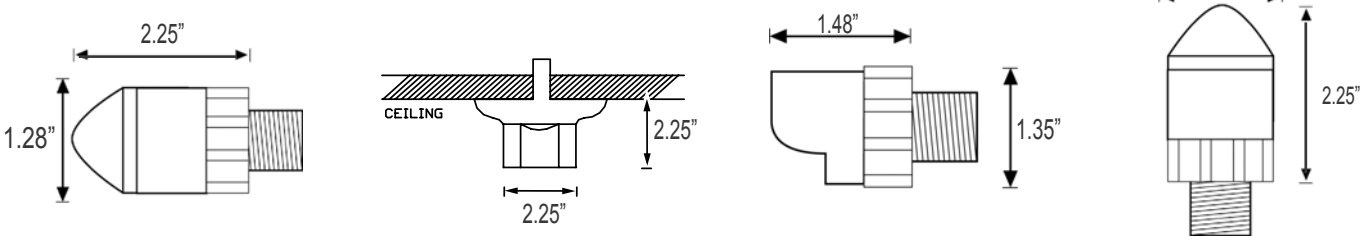
Custom sensor ranges are available. Consult factory for pricing and availability.

Environmental

Operating Temp -15° F to +140° F (-26° C to 60° C)

Mechanical

Dimensions and Orientation



Atrium Sensor | Indoor Sensor | Outdoor Sensor | Skylight Sensor