

iQ421 LED Controller, A25272

- Power switch for manual shutdown of light head.
- CSA approved to UL spec, CE compliant to low voltage and EMC directives.
- One-year warranty on controller and power supplies.
- Manufactured in the USA.

**Mechanical Specifications**

Dimensions:	7.15" x 3.41" x 4.87" (L x W x H) with feet
	182mm x 80mm x 124mm (L x W x H) with feet
Input connector/ Power supply:	5.5 mm barrel power plug with 2.1 mm pin diameter, center positive (Switchcraft® P/N S760K)
Input connector lighthead:	8 PIN Connector
Shutdown connector:	Standard BNC

## iQ421 LED Controller

Presenting intelligent control and regulated constant current for the ultimate in flexibility, offering stabilized light output of the LED light head for demanding industrial and machine vision applications. For use with all standard SCHOTT iQLED light heads.

### Features

#### 4 Operational Modes

- Normal: Continuous intensity control from 0 to 100%
- Maintain: Light-Feedback loop to keep light output constant over operational time.
- Trigger: External signal via BNC-connector switches iQ LED lighthouse on/off. Provides light only when needed for parts inspection.
- Strobe: Internal Strobe Generator generates frequencies between 15 Hz and 50 KHz. Freezes motion of periodically moving objects.

#### Overdrive

- Trigger and strobe mode both enable overdrive of iQ LED lighthouses with intensities up to 250% while predefined overdrive rules are met. Both modes also comprise programmable delay, on-time and pulse width.

#### Temperature Control

- LED indicator signals of high-temperature conditions and alerts user to check intensity setting or ambient temperature.

#### Communication Interface

- User-friendly operating system features a 2-line/16 character display in four languages: English, German, French and Spanish.
- Integrated RS232 interface monitors temperature, operational status
- LED indicator signals that power supply is connected and functioning

#### General Features

- Auto-recognition of maximum current requirements of connected iQLED light head.
- Power supplies and light head connectors are lockable to ensure safe operation.
- 12V and 24V wide range power supplies available (must be ordered separately).
- Heavy duty, grounded metal industrial housing with T-slot grooves on both sides of the unit for mounting.
- T-slot grooves serve as cooling channels to reduce heat build-up eliminating the need for a fan.

**LED Controller Specifications**

Part No. A25272

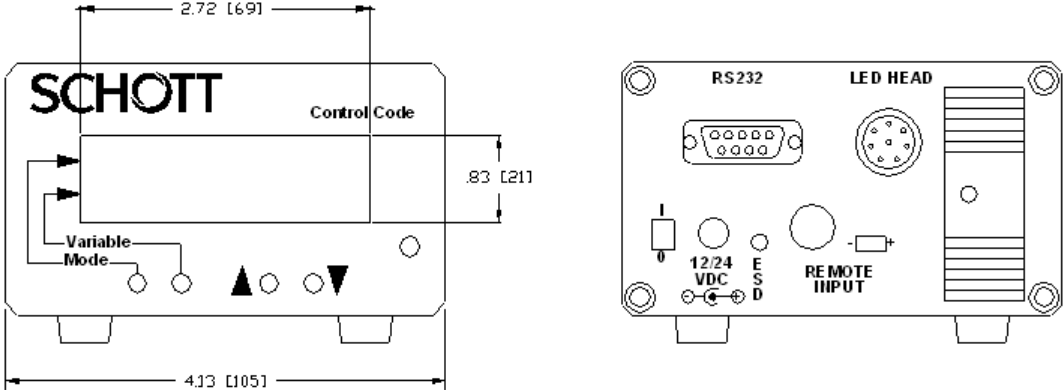
Rated Current Max	1 Amp
Overdrive Intensity	Up to 250%
Strobe Frequency	15Hz - 50 kHz
Trigger Delay	0 to 65,000 msec
Trigger Pulse Width	5 to 62,000 msec
Temperature Range: Operating	0° to 45°C
Storage	-25° to 85°C
Relative Humidity, Non-condensing	5% to 95%

**Controller and Power Supplies**

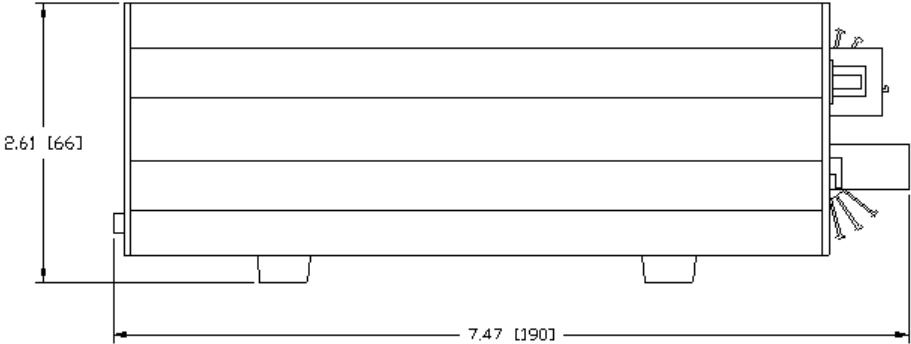
Part Number	Description
<b>Controller</b>	
A25272	iQ421 LED Controller
<b>Wide Range Power Supplies - 100-240 VAC, 50/60 Hz</b>	
A25211	12 VDC with US IEC Cord Included
A25216	24 VDC with US IEC Cord Included
A25212	12VDC EU Version - No Power Cord Included
A25217	24VDC EU Version - No Power Cord Included
<b>Accessories</b>	
A25500	Mounting Bracket Kit

# iQ421 LED Controller

Dimensions in ( ) are in mm



iQ421 LED Controller A25272



Input: 100-240 VAC, 50/60 Hz

TECHNICAL SPECIFICATIONS

### Power Supply and Accessories Dimensions

Power Supply:	4.33" (110) x 1.97" (50) x .79" (20) L x W x H Dimensions in ( ) are in mm
Mounting Brackets:	6" (152) x 4.5" (114) x .125" (3.2) L x W x H Dimensions in ( ) are in mm