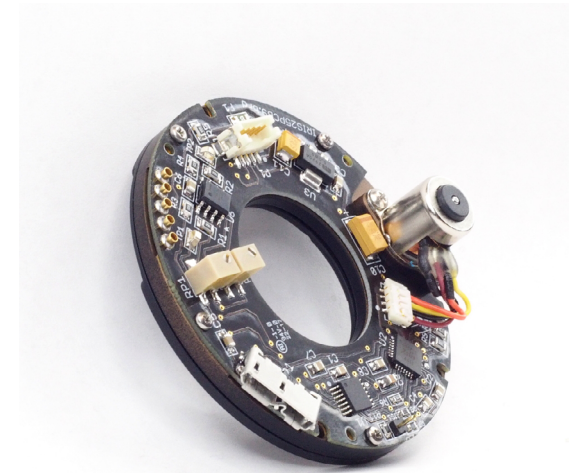




# Uniblitz® AI25

1.5 - 25.0 mm Motorized Iris Diaphragm (Auto Iris)



## Overview

The Uniblitz AI25 is a motorized iris diaphragm (auto iris) that allows for the remote control of a variable 25 mm aperture. The iris's aperture closes down to 1.5 mm, and an optional shutter attachment allows users to fully close the aperture. The AI25's low-profile form-factor means that it can be used in applications where spacial limitations are a consideration. An optional housing is available which gives the AI25 a compact package with no externally protruding components and two flat mounting surfaces.

**Need Support?** Please [visit our website](http://www.uniblitz.com) or email us at [info@uniblitz.com](mailto:info@uniblitz.com).

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Updated 3/18 | Datasheet Version 5.2 | ©2018 Vincent Associates

## Key Features

- Operation Range:  
**1.5 - 25.0 mm**
- Closing speed:  
**0.22 seconds**
- Resolution (mm/step):  
**0.44 ± 0.33**
- Optional high speed shutter attachment
- **RoHS Compliant**
- Configured for the **AIC10 Iris Controller**

# Product Options

AI25 **2** **3** **4**

Ex: AI25S6T

## 1 Iris Series:

- **AI25**

## 2 Shutter Attachment:

- **N:** Omitted
- **S:** Included

## 3 Housing:

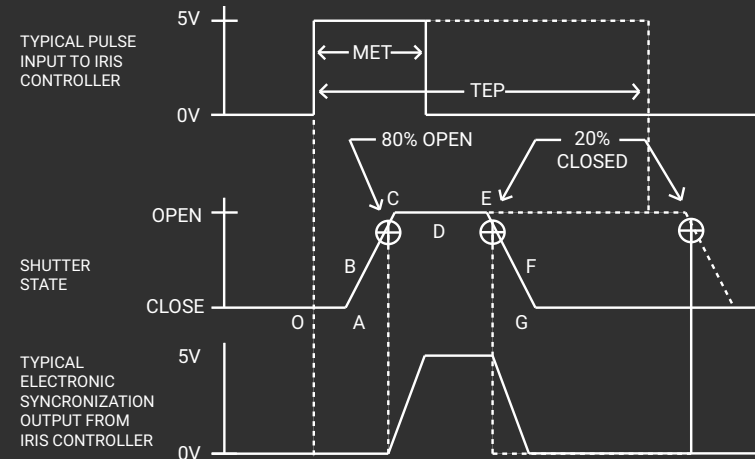
- **1:** Un-housed
- **6:** Housed

## 4 Blade Coating: <sup>1</sup>

- **T:** Low Energy (Teflon®)

<sup>1</sup> Other blade coating options may be available in the future.

# Shutter Timing *(when equipped)*



## DSS25B (w/ AIC10 and Teflon® coated blades)

## Time (msec.)

O - A	Delay time on opening after current applied	13.2
A - C	Transfer time on opening	12.6
O - C	Total opening time	25.8
C - E	Min. dwell time with min. input pulse	23.2
B - F	Min. equivalent exp. time	36.6
D - E	Delay time on closing after current applied	14.0
E - G	Transfer time on closing	14.0
A - G	Total window time	50.8
MET	Min. exposure time	35.0
TEP	Typical exposure pulse	>35.0

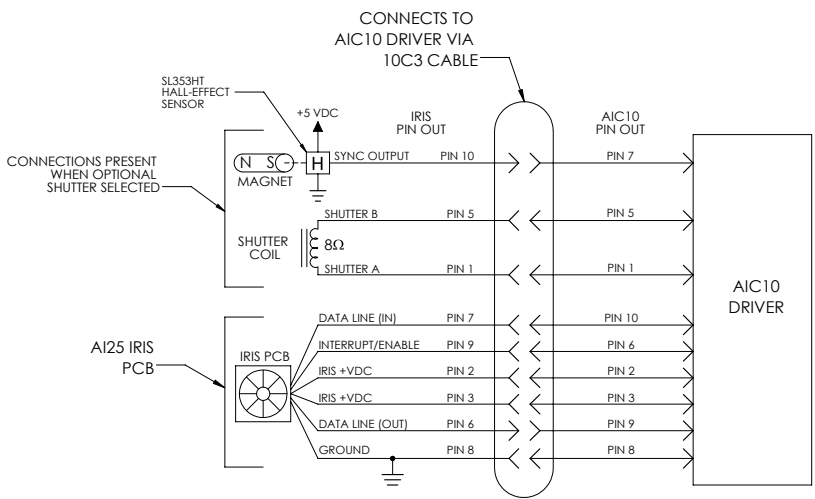
# Technical Specifications

Number of Steps <sup>2</sup>	Resolution (mm/step)	Operation Range (mm)	Closing Speed (min to max)
54	0.44 ± 0.33	1.5 - 25.0	0.22 seconds

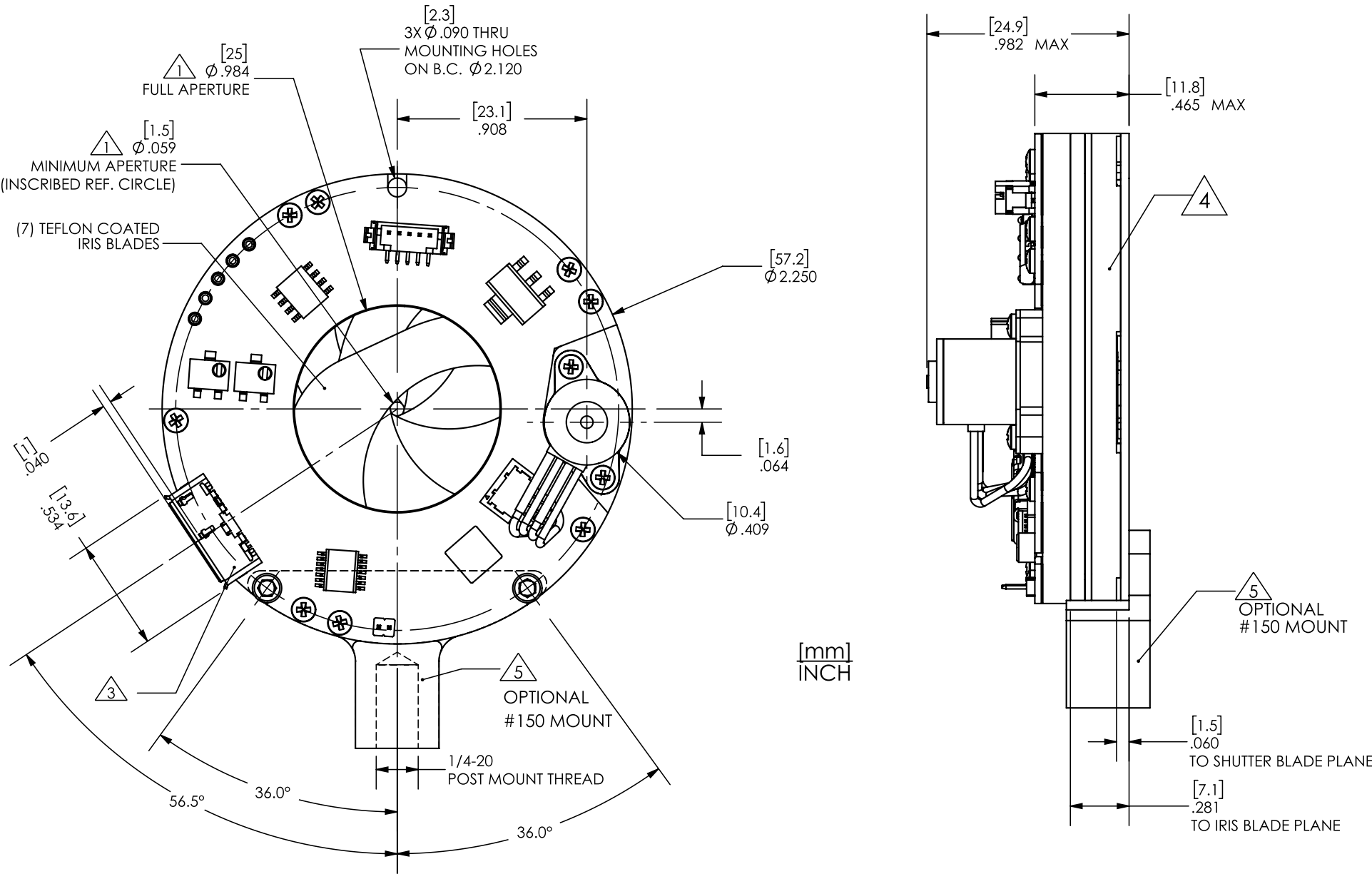
<sup>2</sup> A step is equal to a single movement of the iris blades/aperture (while in the “Fine” resolution mode).

Series	Weight (Un-housed)	Weight (W/ Shutter)	Weight ( Housed W/ Shutter)	Operating Temp.	Number of Iris Blades
AI25	1.31 oz (37.20 g)	2.00 oz (56.80 g)	5.82 oz (164.90 g)	-10 - 65 °C	7

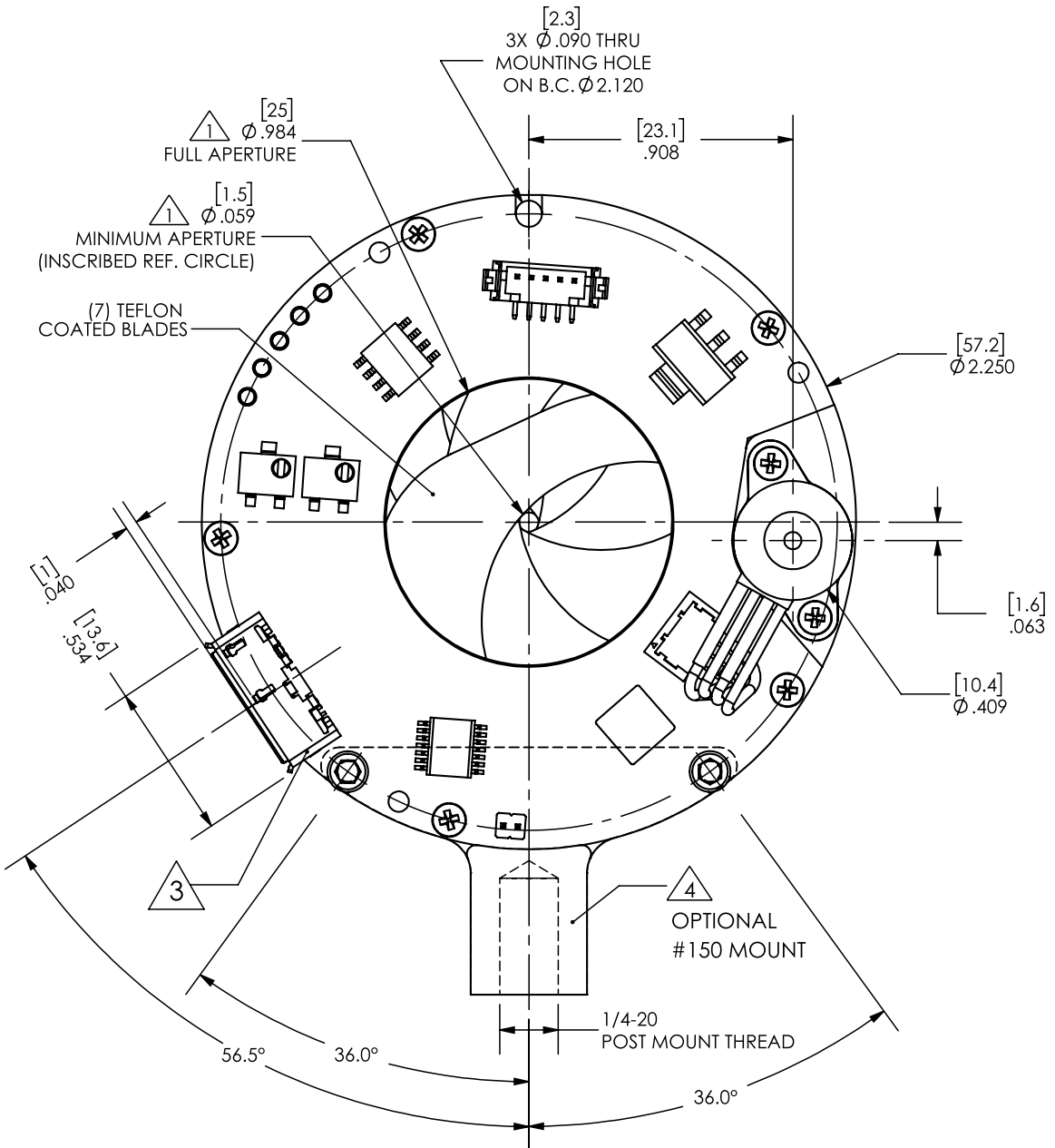
## AI25 Pin Connections



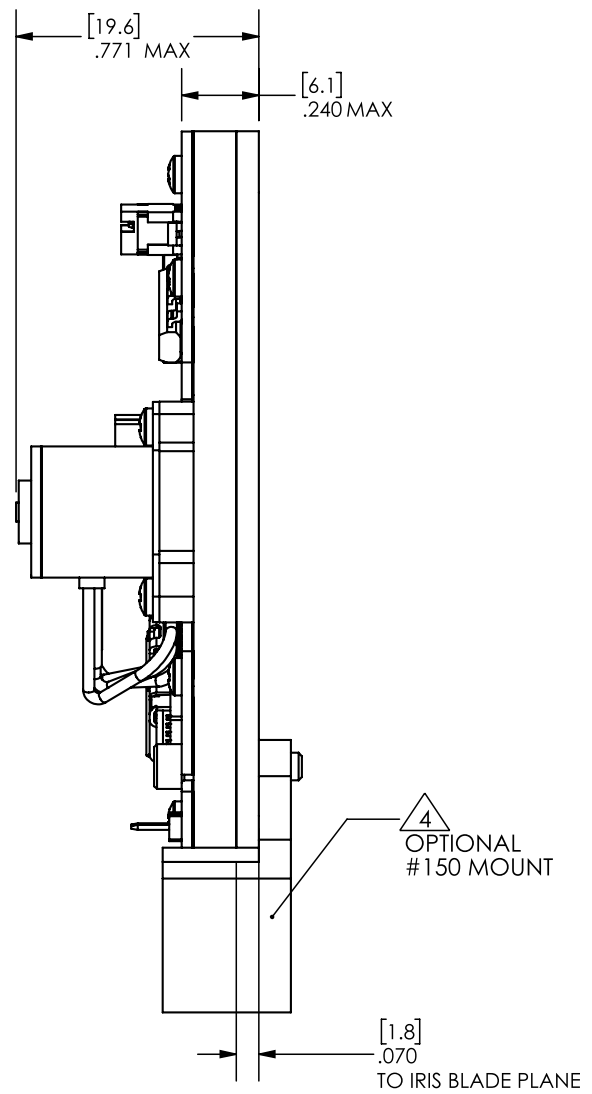
# Technical Drawings - AI25S1T *(Un-housed - w/ Shutter Attachment)*



# Technical Drawings - AI25N1T (Un-housed)



[mm]  
INCH





# Technical Drawings - AI25S6T *(Housed - w/ Shutter Attachment)*

