USB Fiber Shutter

ThorLabs SM05 Thread (both sides)

USB Controller

Motor

Serial Number
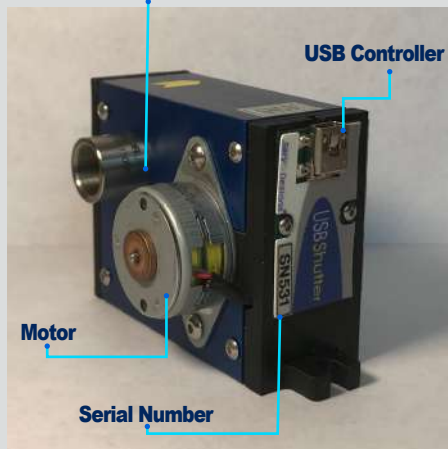
Optional ThorLabs Fiber Adapters (AD1109F)

Serial Number

USB Fiber Shutter Features

The USB Fiber Shutter is designed to couple a fiber optic cable through the USB-Shutter in a light-tight box.

- USB powered and controlled shutter
- Draws power from a standard USB port
- Auto closing shutter (return spring) if power or communications is lost
- Quiet stepper motor operation (no clunk) to open and close a simple shutter paddle
- USB Hot pluggable with Auto-detection
- Mounts provided for optical tables or posts

- Threaded SM05 mounts on both sides of the box
- Easy to use Windows (XP and higher) based User Interface software included
- LabView and C++ example software with a DLL file provided for ease of automation
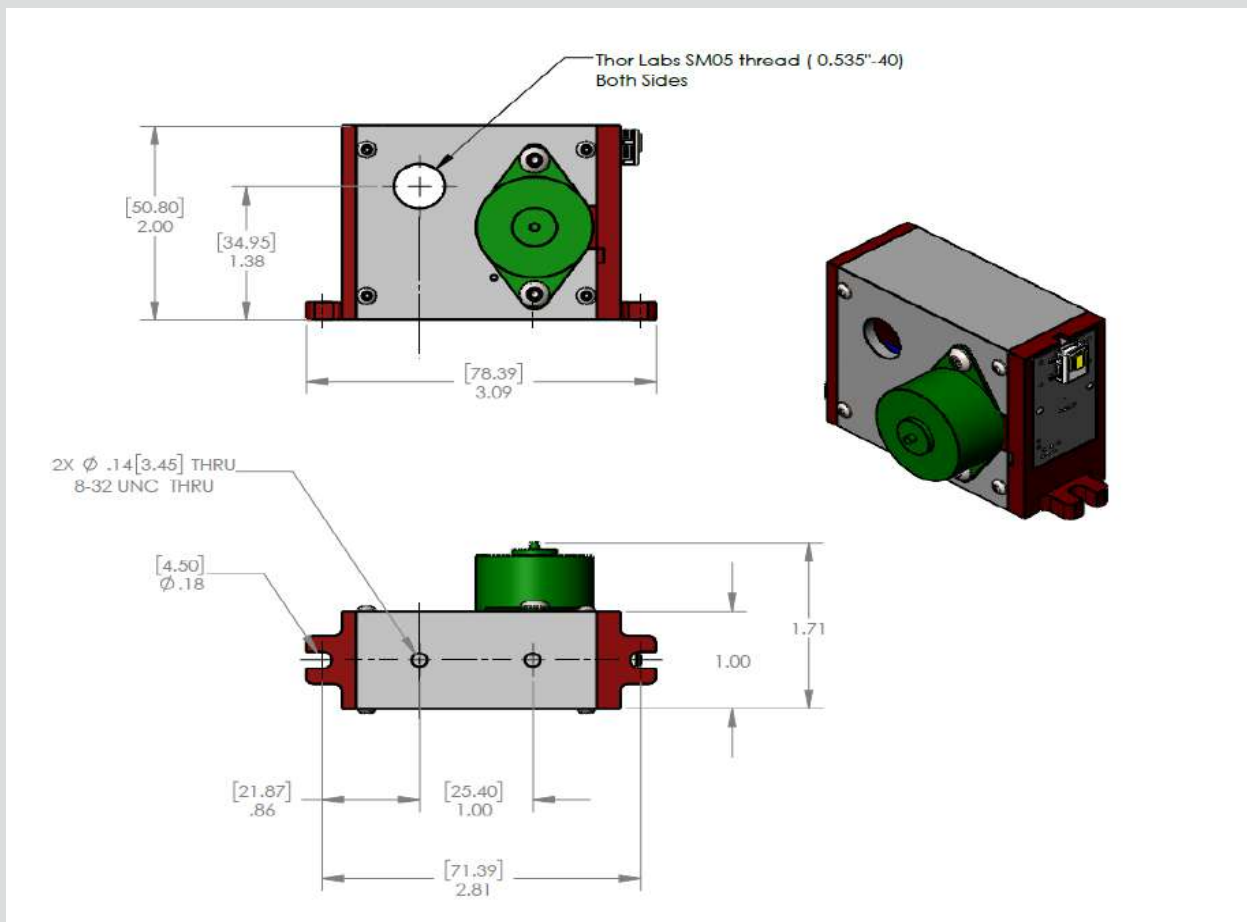- One meter USB cable included

($ 385.00 single piece price)

Picard Industries
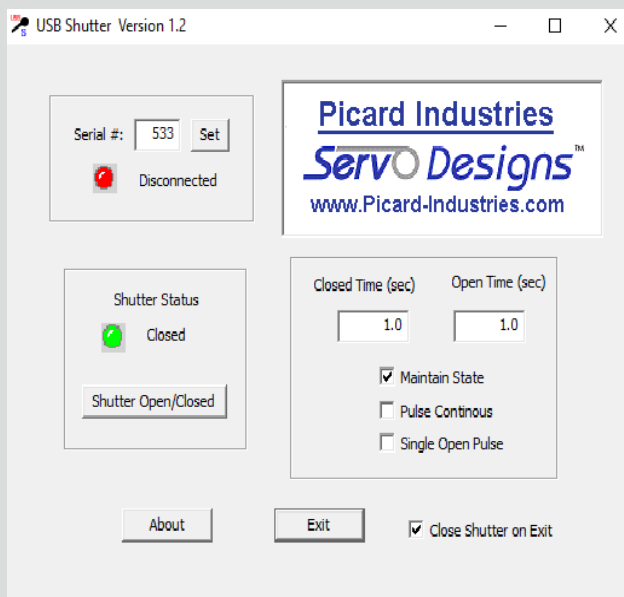
4960 Quaker Hill Road, Albion, NY 14411

(585) 589-0358

www.Picard-Industries.com

Mechanical Layout

Thor Labs SM05 thread (0.535"-40)
Both Sides

[50.80]
2.00

[34.95]
1.38

[78.39]
3.09

2X Ø .14[3.45] THRU
8-32 UNC THRU

[4.50]
Ø .18

1.71

1.00

[21.87]
.86

[25.40]
1.00

[71.39]
2.81

Software Interface

USB Shutter Version 1.2

Serial #: 533 Set

Disconnected

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Shutter Status

Closed

Shutter Open/Closed

Closed Time (sec)   Open Time (sec)

1.0   1.0

☑ Maintain State
☐ Pulse Continous
☐ Single Open Pulse

About   Exit   ☑ Close Shutter on Exit

Description

We provide this Windows example program for timed control of an individual **USB-Fiber Shutter**. Each shutter is identified by its serial number located on the shutter. Enter this number and click Set to connect. Status (red/green) indicators are used to show whether the shutter is properly connected to the USB port and whether it is **opened** or **closed**. The shutter button is clicked to toggle the shutter state. Timed exposures are accomplished by entering time values and selecting a Pulse mode. To the left is a screen-shot of the user interface. Source code for this program and LabView examples are also provided as a tutorial for using our DLL file that controls the **shutter**.