

# RS08B

## Rotary Shutter

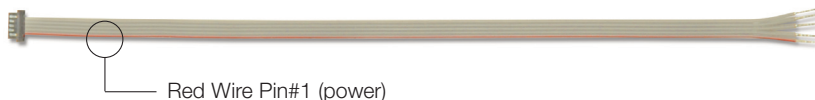
### Product Features

- Silent operation – undetectable
- Best SWaP Performance
  - Mass: <3g
  - Embedded drive & control in shutter body
- Holding and braking without power consumption
- Compliant for shock, vibration, and temperature applications
- OEM blade & cable/connector configurations available



### Optronic Systems

- Thermal Imaging Shutter (NUC)
- Laser Shutter
- Filter Changer



#### ORDERING INFORMATION

##### Shutter Part Numbering

| RS08B | Travel | XXX            | -00 |
|-------|--------|----------------|-----|
|       |        | OAA (Standard) |     |
|       |        | OKA (No Blade) |     |
|       | 35°    |                |     |
|       | 45°    |                |     |
|       | 55°    |                |     |
|       | 70°    |                |     |
|       | 90°    |                |     |
|       | 120°   |                |     |

#### ORDERING EXAMPLE

|       |     |     |     |
|-------|-----|-----|-----|
| RS08B | 055 | OAA | -00 |
|-------|-----|-----|-----|

RS08B with 55 deg travel, standard blade

#### EVALUATION KIT PART NUMBERING

| RS08B | -EVAL | Travel |
|-------|-------|--------|
|-------|-------|--------|

RS08B -EVAL 55

### Product Description

The RS08B is the next generation rotary shutter from Nanomotion, utilizing a silent motor drive, in an 8mm x 20mm package. The RS08B is designed to operate from a 3.3v battery and supports a wide range of angular travel up to 120°.

The RS08B has an internal, magnetic absolute position sensor, allowing full travel between soft stops, after calibration. The connector in the base of the shutter provides flexibility for users to configure various cable lengths and mating connections to a device.

Shutter blades can be configured based on specific requirements, incorporating the physical hard stop into the blade. This allows for the entire shutter body to be self-contained as a stand-alone unit.

# RS08B

# Rotary Shutter

## MECHANICAL DRAWINGS AND INTERFACE

### TECHNICAL SPECIFICATIONS

#### Mechanical

- Weight: <3g (based on standard blade)
- Dimensions: Ø8mm x 20mm Long

#### Performance

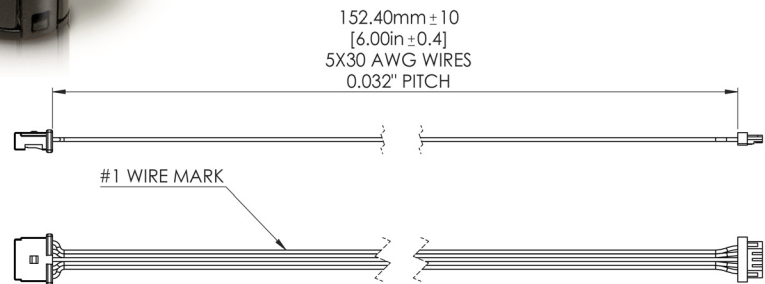
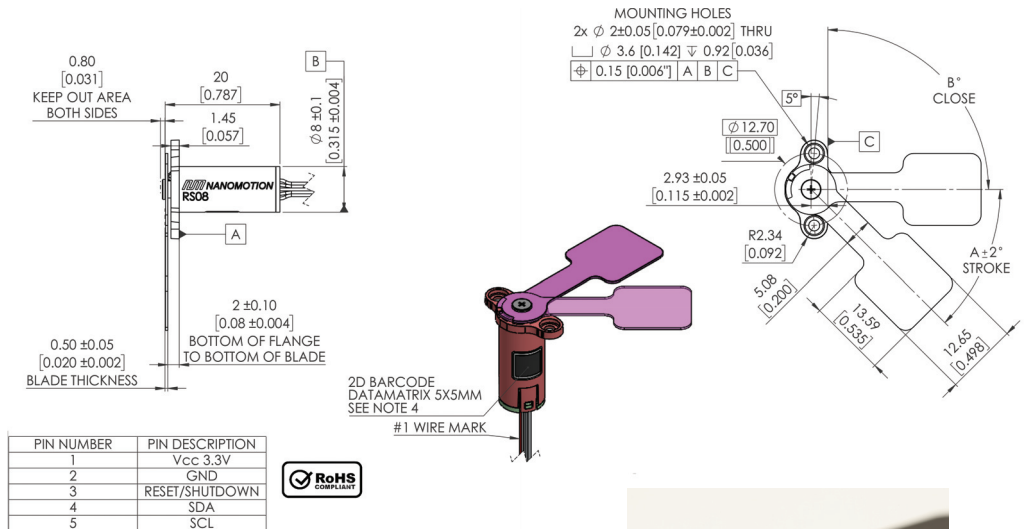
- Drive Mode: Closed Loop
  - Position and Velocity Control
- Stroke Angles: selectable to 120°
- Operating Temperature: -40°C to 70°C

### ELECTRICAL

- Drive Voltage: 3.3V
- Max Power Consumption: 800mW
- Typical Power Consumption: 400mW
- Idle (on): 10mW

### Communication

- IIC



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Customer defined connector  
can be supplied

| # | Hirose P/N    | Description    |
|---|---------------|----------------|
| 1 | DF52-5S-0.8H  | RECEPTACLE     |
| 2 | DF52-5P-0.8C  | PLUG CONNECTOR |
| 3 | DF52-2832 PCF | CRIMP CONTACT  |

