ULTRA LOW VIBRATION SHUTTER
MOUNTED TO AN OPTICAL TABLE
SH-65-MP
LOW COST OPTICAL SHUTTER/ LOW FREQUENCY CHOPPER

FEATURES AND ADVANTAGES:
* Aperture size: 0.65” (16mm) dia.
  Boxed version aperture size: 0.56” (14mm) dia.
* No clicking or knocking noise (no hard stop)
* Does not create shock and vibration
* Response time: 10 mSec
* Can be used as a low frequency chopper
* Frequency response: DC to 25 Hz
* Can be stopped in the OPEN or CLOSE position
* Long life: 100 million cycles min.
* Jitter free operation
* Dark blade, bright optional
* LOW COST
* Simple to operate
* Easy to integrate into OEM products.
* Special pricing for OEM applications.

DESCRIPTION:
The low cost small size mechanical light shutter/chopper model SH-65 is an ULTRA-LOW VIBRATION device that does not create shock or vibrations. It is useful when working on an optical table and is suitable to be part of an instrument or a system where a vibration free environment is needed. The shutter / chopper is easy to operate and is valuable when integrated into an OEM product. It is very cost effective in high volume.

The device consists of a 0.010" thick aluminum black anodized blade mounted on a motor with a limited rotation angle to fit a 0.65” (16mm) aperture. The blade is also available in a bright nickel plating finish. Other thicknesses and finishing types are available. The total swing of the blade from one end position to the other end position is 30 degrees. Transition from one position to the other is 10mSec total. Transition is smooth, no clicking noise, no hard stops, and with minimal shock or vibration.

The shutter can also be used as a low frequency optical chopper at frequencies from DC to 25Hz.

We offer the following models (custom and standard) for the SH-65 shutter:

SH-65 shutter is mounted on a frame that allows horizontal and vertical mounting
SH-65-M shutter comes with a mounting plate and allows horizontal and vertical mounting.
SH-65-MP shutter can be mounted directly on an optical table.
SH-65-B shutter is boxed in an aluminum box with a 0.56” (14mm) through hole.
SPECIFICATIONS:
When used with the DSH-65 Driver
APERTURE SIZE: 0.65” (16mm) dia.
FREQUENCY RANGE: DC to 25Hz
RESPONSE TIME: 10 mSec, from an OPEN position to a CLOSE position, or vice-versa
FREQUENCY STABILITY: 0.1% internal clock; 0.005% with external crystal clock input (TTL input)
EXTERNAL INPUT: DC to 25Hz TTL level input; 5V or "OPEN" to open the shutter
0V or "GND" the shutter
SETTLING TIME TO EXTERNAL TTL INPUT: 10mSec
MONITOR OUTPUT: TTL level output: "Hi" indicates that the shutter is open
"Lo" indicates that the shutter is close
OPERATING TEMPERATURE: 0-65 deg C

SH-65-PC DRIVER HOOK UP DIAGRAM

ORDERING INFORMATION:
SHUTTER: SH-65, SH-65-M, SH-65-MP, SH-65-B, Dark blade or bright blade
Example: PART NO. SH65-M-bright w/ DSH-65-110-BNC
Special pricing for OEM applications.