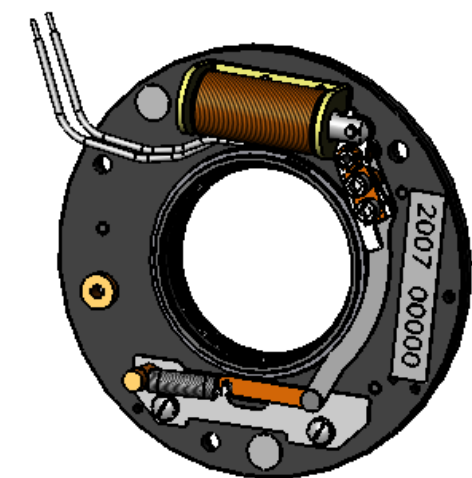
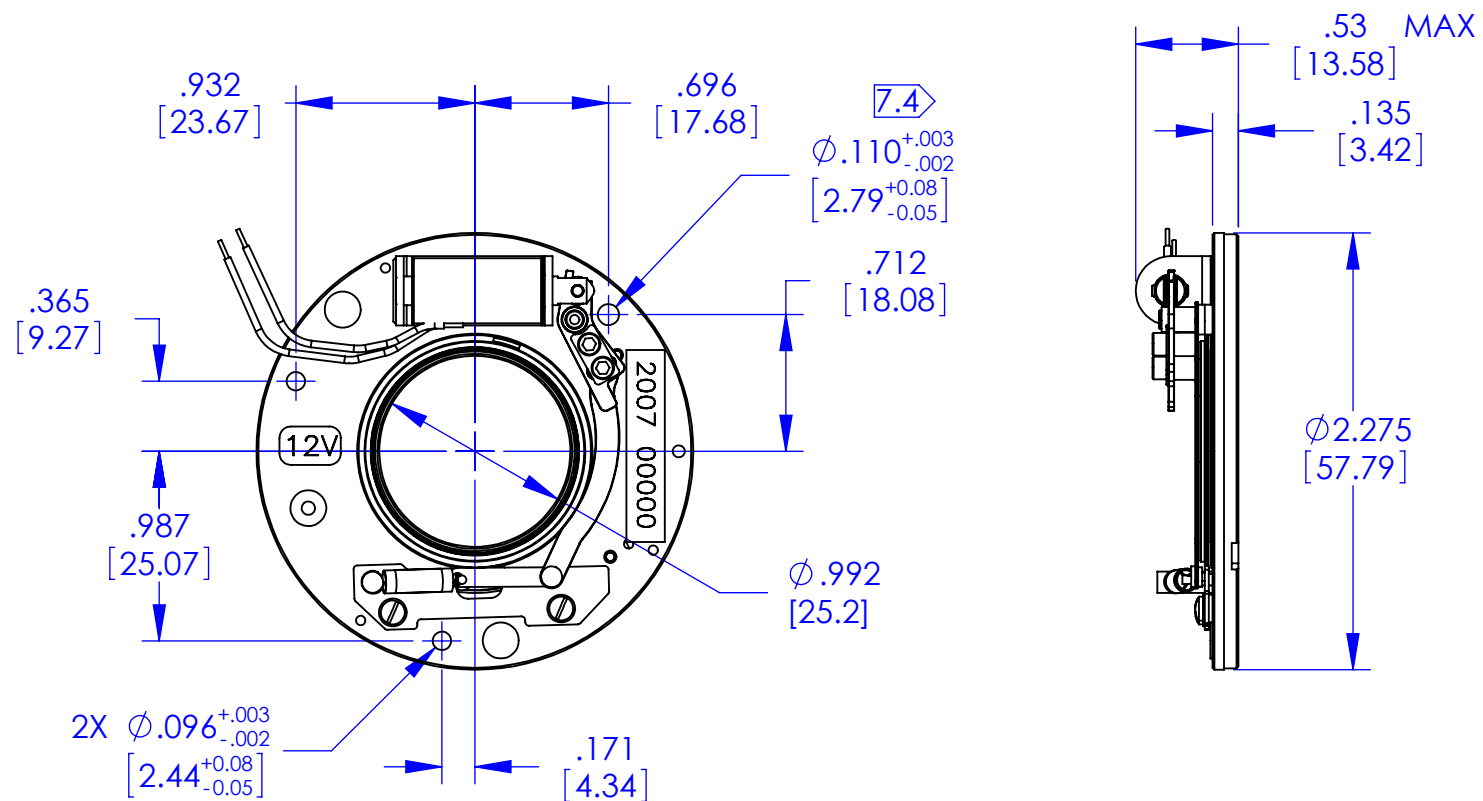


REVISION HISTORY						
ZONE	REV.	BY	DESCRIPTION	DATE	ECO	APPROVAL
	A	WJ	RELEASED FOR PRODUCTION	4/19/2006		

NOTES:

- 1.0 DESCRIPTION: EXTREME SERVICE SHUTTER FOR HARSH ENVIRONMENTAL CONDITIONS, NORMALLY OPEN, 3 VOLT.
- 2.0 CLEAR APERTURE: .992 [25.2]
- 3.0 MAXIMUM SPEED: 1/60 SEC.
- 4.0 SHUTTER BLADES:
 - 4.1 NUMBER: 5
 - 4.2 COATING: COATED FOR HIGH EMISSIVITY IN THE INFRARED SPECTRAL REGION
- 5.0 ELECTRICAL:
 - 5.1 RATED SOLENOID VOLTAGE: 3VDC
 - 5.2 PEAK PULSE CURRENT: 4.0A
 - 5.3 RESISTANCE: 3 OHMS, NOMINAL
 - 5.4 INDUCTANCE: 2.7mH, NOMINAL
 - 5.5 HOLDING CURRENT: 500mA
 - 5.6 SOLENOID WIRE LENGTH: 2.0 [51]
- 6.0 OPERATING TEMPERATURE: -40°C TO +70°C
- 7.0 SHUTTER MOUNTING:
 - 7.1 SUGGESTED MOUNTING SCREWS: #2 (INCH) OR M2 (METRIC) SOCKET HEAD CAP SCREWS.
 - 7.2 MAXIMUM SCREW TORQUE: 25 OZ.-IN.
 - 7.3 DO NOT USE LIQUID THREAD LOCKER. (DUE TO RISK OF SHUTTER CONTAMINATION)
 - 7.4 VERIFY MOUNTING SCREW IN THIS AREA DOES NOT INTERFERE WITH THE SHUTTER DRIVE COMPONENTS IN THE ACTUATED OR UNACTUATED CONDITION.
- 8.0 DIMENSIONS ARE IN: INCHES [MILLIMETERS]
- 9.0 UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE NOMINAL.



UNLESS OTHERWISE SPECIFIED:
 ALL DIMENSIONS ARE IN INCHES
 DIMENSIONS APPLY AFTER FINISH
 BREAK SHARP EDGES: 0.005 X 45°
 MAX FILET RADIUS: 0.010
 SURFACE FINISH: 32 \sqrt

TOLERANCES:
 .X ----- ±.02 ANGLES ----- ±1°
 .XX ----- ±.01
 .XXX ----- ±.005
 .XXXX ----- ±.0005

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MATERIAL: _____

CHEM. FINISH: _____

DRAWN BY: WJOHNSON
 DATE: 2/6/07
 APPROVAL: _____

PROPRIETARY NOTICE: THIS DRAWING IS CONFIDENTIAL AND THE INFORMATION THEREON SHALL NOT BE COPIED NOR UTILIZED IN ANY WAY WITHOUT PERMISSION FROM MELLES GRIOT ROCHESTER. DRAWING TO BE RETURNED UPON REQUEST.

MELLES GRIOT OPTICS GROUP 55 SCIENCE PARKWAY, ROCHESTER, N.Y. 14620			
TITLE: SYSTEM DRAWING-#1 ESUT SHUTTER, NORMALLY OPEN, 3V			
SIZE	DWG. NO.	REV.	P NO.
B	25510-S/04ESO131	A	
SCALE: 1:1	PATH: J:\		SHEET 1 OF 1