

# FINE POINTING DUAL AXES MAGNETIC MIRRORS

#### **OVERVIEW**

The **recalo** dual axes magnetic mirrors are used for optical beam steering and scanning. The 2-D mirror has a large reflective surface of 16x11mm.

Using magnetic actuation, the deflection angle is set linearly with the driving current. The mirror is designed for DC operation as well as scanning.

As an option, the device could include an internal optical feedback sensor for closed loop actuation.

## **FEATURES**

- 2 actuation Axes
- ±1.5°
- Linear control
- Fine Pointing

## **APPLICATIONS**

- 2D Static and dynamic Optical
  Beam Steering
- 2D Optical Scanner Device

#### ORDERING INFORMATION

MM-160110-2-15-AU Gold surface finish

MM-160110-2-15-AL Aluminum surface finish

MM-160110-2-15-AU Gold surface finish with

Feedback sensor

MM-160110-2-15-AL Aluminum surface finish

with Feedback sensor

#### Contact:

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Ordering Information:



800 Village Walk #316 Guilford, CT 06437 Ph: 203-401-8093

Email orders to: sales@xsoptix.com Fax orders to: 800-878-7282



TECHNICAL SPECIFICATIONS				
	Unit	Min	Тур	Max
Max actuation Current	mA			60
Max actuation Power	W			0.5
Surface finish	-	G	old or Aluminium	
Reflectivity (800-2000 nm)	%	98		
Mirror Size	$\rm mm^2$		16.0 x 11.0	
Wavefront Error (1550nm)	nm			100
Tilt Angle DC (mechanical)	deg			± 1.5°
Resonance Frequency X	Hz	315	330	
Resonance Frequency Y	Hz	170	180	
Angle of Incidence	deg			45
Operating Temperature	°C	-5		85
Storage Temperature	°C	-40		85
Mass	g			80

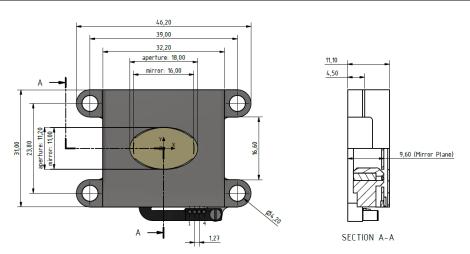


Figure 1: Mechanical layout for MM162100-2-15 Deflection Unit. (Units = mm)

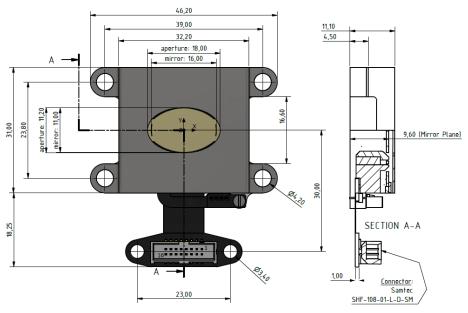


Figure 2: Mechanical layout for MM162100-2-15-FB Deflection Unit with feedback sensor. (Units = mm)

