

FINE POINTING DUAL AXES MAGNETIC MIRRORS

OVERVIEW

The **recelo** 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 INFORM	MATION			
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			
Distributor				
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is without notice at any time. [90-1221-2]

	Unit	Min	Тур	Max
Max actuation Current	mA			60
Max actuation Power	W			0.5
Surface finish	-	Go	old or Aluminium	
Reflectivity (800-2000 nm)	%	98		
Mirror Size	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

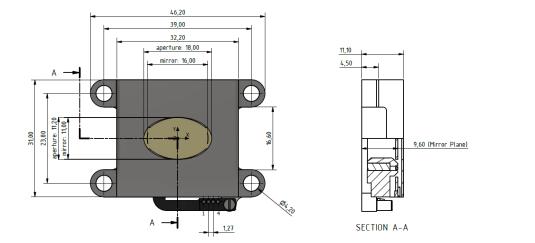


Figure 1: Mechanical layout for MM162100-2-15 Deflection Unit. (Units = mm)

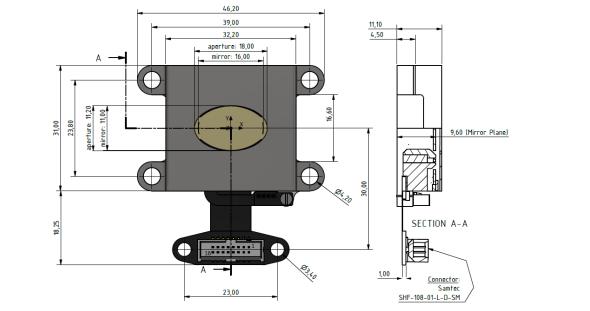


Figure 2: Mechanical layout for MM162100-2-15-FB Deflection Unit with feedback sensor. (Units = mm)



