



Magnetic Deflection Unit

OVERVIEW

The **sercalo** magnetic deflection units are used for optical beam steering and scanning. The mirrors provide large reflective surfaces for an input beam up to a diameter of 8 mm.

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

An optional Electronic Board could be ordered.

FEATURES

- Large mirrors
- 2 actuation Axes
- Up to $\pm 10^\circ$ static
- Linear control

APPLICATIONS

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

ORDERING INFORMATION

MDU80-AU	<i>Gold surface finish</i>
MDU80-AL	<i>Aluminum surface finish</i>
EBMM	<i>Control Electronic</i>

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TECHNICAL SPECIFICATIONS

	Unit	Min	Typ	Max
Actuation Current (per axis)	<i>mA</i>			200
Actuation Power (per axis)	<i>mW</i>			300
Surface finish	-		Gold or Aluminum	
Input Beam Diameter:	<i>mm</i>			8.0
Mirror Flatness (ROC)	<i>m</i>	10		
Maximum Deflection Angle X	<i>deg</i>	± 8		± 10
Maximum Deflection Angle Y	<i>deg</i>	± 8		± 10
Resonance Frequency X	<i>Hz</i>		200	
Resonance Frequency Y	<i>Hz</i>		250	

