## **HA110 Haptic Actuator**



innovating motion

## **HA110 Specifications**

#### Part Number

1.70.008.001

#### Description

The Ledex HA110 actuator adds tactile feedback to touch screens with software incorporated under license from Immersion Corporation\*. The HA110 can be utilized in many applications that include automotive interior devices, gaming devices, training simulators, industrial equipment visual displays and



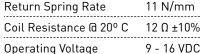
#### Performance Data

Intermittent Duty Cycle	15% for less than 20 minutes
Rated Life	10 million cycles
Response Time	<5 ms
Dynamic Displacement	0.21 mm - 0.39 mm
Noise	65 dBA Max @ 30 cm

11 N/mm



### **Electrical Data**



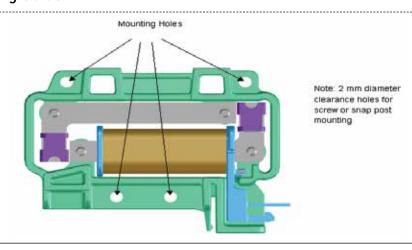
#### Mechanical Data

Mating Connector	Molex - P/N 0022012027
Mating Terminal	Molex - P/N 0008510108
Operating Temperature	-40 to +85°C, 20 to 70% RH non-condensing
Total Weight	24 grams
Dimensions	46 mm x 34 mm x 12 mm (w x h x thickness)
Range	

#### Notes:

All data is typical All specifications subject to change without notice Other voltages available on request This is a no load supporting device Units can be combined together for higher loads

## **Mounting Guide**





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<sup>\*</sup> See www.immersion.com

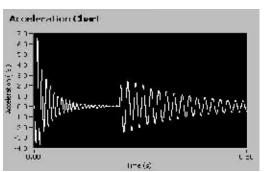


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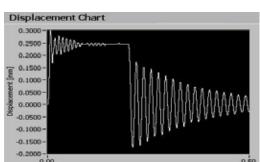
## Performance

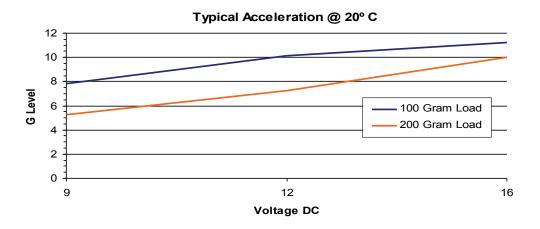
## Typical Acceleration Waveform

@ 12VDC @ 20° C

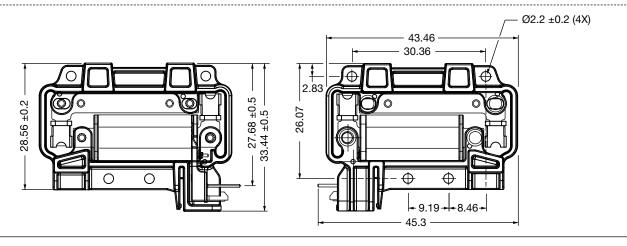


# Typical Displacement Waveform @ 12VDC @ 20° C





## Dimensions (mm)



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