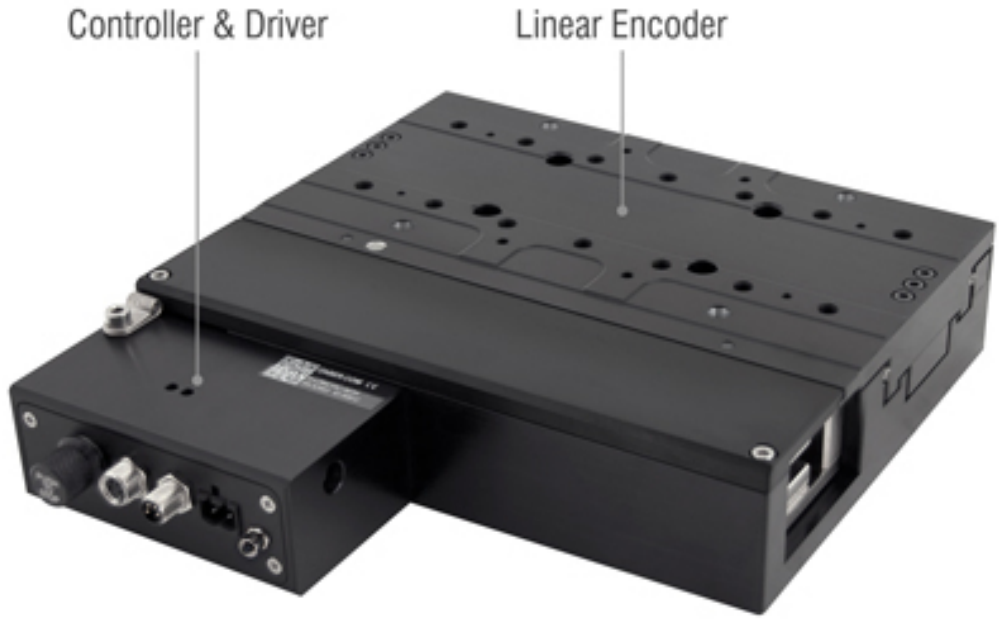
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X-LDM-AE Series Datasheet



- 60, 110, 210 mm travel options
- Up to 1.2 m/s speed and up to 3.5 g acceleration
- High repeatability (80 nm) and accuracy (1 µm), with 8 nm minimum incremental move
- Direct position measurement from 1 nm resolution linear encoder
- Non-contact ironless linear motor for high dynamic performance & reliability
- Built-in controller; daisy-chains with other Zaber products
- Digital IO for interfacing with external hardware

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X-LDM-AE Series Overview

Zaber's X-LDM-AE Series devices are computer-controlled, motorized linear stages suited for applications demanding outstanding precision, throughput, and reliability. A centrally mounted linear encoder results in 1 µm position accuracy and consistent movement steps down to 25 nm. X-LDM-AE devices feature high efficiency ironless linear motors, providing high speed and acceleration, while minimizing heat generation to improve repeatability. Both the drive and encoder are non-contact and have no moving cables, resulting in a high lifetime system.

These stages are stand-alone units requiring only a standard 48 V power supply. They connect to the RS-232 port or USB port of any computer, and they can be daisy-chained with any other Zaber products. The daisy-chain also shares power, making it possible for multiple X-Series products to share a single power supply. Like all of Zaber's products, the X-LDM-AE Series is designed to be 'plug and play' and very easy to set up and operate. X-LDM-AE devices also include a digital input and two digital outputs for interfacing with external systems. An event-driven trigger system allows devices to be programmed for stand-alone operation based on I/O, time, or movement stimuli.

For more information visit: https://www.zaber.com/products/linear-stages/X-LDM-AE

X-LDM-AE Series Part Numbering & Options

X-LDM 060 C - AE54 D12

Travel	Forcer Size	Encoder Options	I/O Options
060 — 60 mm **110** — 110 mm **210** — 210 mm	**C** — Medium	**AE54** — Analog encoder, measure down to 1 nm	**D12** — One digital input, two digital outputs

X-LDM-AE Series Drawings

- dimensions-X-LDM-AE.png (Drawing for the Drawing for the X-LDM_AE)
- View all drawings and documents at zaber.com

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X-LDM-AE Series Specifications

Overview

Specification	Value
Built-in Controller	Yes
Manual Control	Indexed knob with push switch
Axes of Motion	1
LED Indicators	Yes

Positioning Performance

Specification	Value
Accuracy (unidirectional)	1 µm (0.000039 ")
Repeatability	<0.08 µm (<0.000003 ")
Minimum Incremental Move	25 nm

Load Performance

Specification	Value
Peak Thrust	60 N (13.5 lb)
Maximum Continuous Thrust	35 N (7.8 lb)
Maximum Centered Load	185 N (41.5 lb)
Maximum Moment (Pitch)	12 N·m (8.9 lb·ft)
Maximum Moment (Roll)	12 N·m (8.856 lb·ft)
Maximum Moment (Yaw)	12 N·m (8.856 lb·ft)

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Speed

Specification	Value
Maximum Speed	1200 mm/s (47.244 "/s)
Minimum Speed	0.61 nm/s
Speed Resolution	0.61 nm/s
Typical Velocity Stability	± 0.11% at 100 mm/s with a 1.0 kg payload

Encoder & Sensing

Specification	Value
Encoder Type	Linear analog encoder
Encoder Count Size	1 nm
Limit or Home Sensing	Optical Index Mark

Motor

Specification	Value
Motor Type	Moving Magnet Track Linear Motor (3 phase)
Force Constant	15.8 N/A (3.5 lbs/A)

Power and Communication

Specification	Value
Communication Interface	RS-232
Communication Protocol	Zaber ASCII (Default)
Data Cable Connection	Locking 4-pin M8
Power Supply	48 VDC
Power Plug	2-pin screw terminal
Maximum Current Draw	3000 mA

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Analog & Digital I/O

Specification	Value
Digital Input	1
Digital Output	2

Mechanical

Specification	Value
Guide Type	Crossed-Roller Bearing
Mounting Interface	M6 threaded holes

Environmental & Compliance

Specification	Value
CE Compliant	Yes
Vacuum Compatible	No

Part Number	Travel Range	Weight	Flatness of Travel	Straightness of Travel
X-LDM060C-AE54D12	60 mm (2.362 ")	3.76 kg (8.289 lb)	<4 µm (<0.000157 ")	<3 µm (<0.000118 ")
X-LDM110C-AE54D12	110 mm (4.331 ")	4.84 kg (10.67 lb)	<4 µm (<0.000157 ")	<3 µm (<0.000118 ")
X-LDM210C-AE54D12	210 mm (8.268 ")	6.6 kg (14.55 lb)	<8 µm (<0.000315 ")	<5 µm (<0.000197 ")

Part Number	Pitch Error	Roll Error	Yaw Error	Maximum Acceleration
X-LDM060C-AE54D12	0.003 ° (0.052 mrad)	0.002 ° (0.035 mrad)	0.002 ° (0.035 mrad)	34.3 m/s2 (3.5 g)
X-LDM110C-AE54D12	0.005 ° (0.087 mrad)	0.005 ° (0.087 mrad)	0.002 ° (0.035 mrad)	24.5 m/s2 (2.5 g)

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X-LDM210C-AE54D12	0.01 ° (0.174 mrad)	0.005 ° (0.087 mrad)	0.005 ° (0.087 mrad)	14.7 m/s2 (1.5 g)

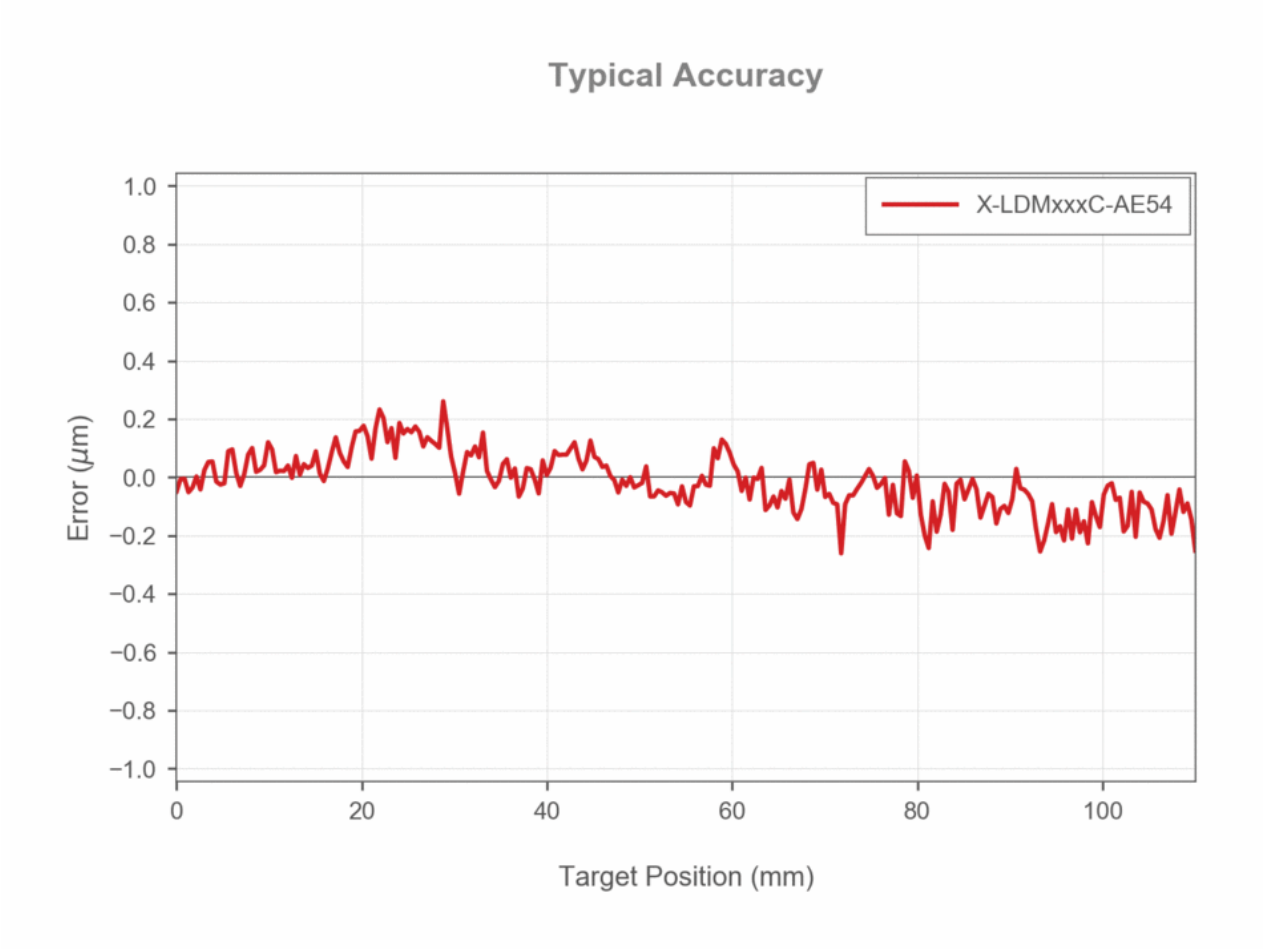
Part Number	Moving Mass	Operating Temperature Range
X-LDM060C-AE54D12	1.74 kg (3.828 lbs)	10 to 40 °C
X-LDM110C-AE54D12	2.29 kg (5.038 lbs)	10 to 40 °C
X-LDM210C-AE54D12	3.17 kg (6.974 lbs)	10 to 40 °C

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X-LDM-AE Series Charts

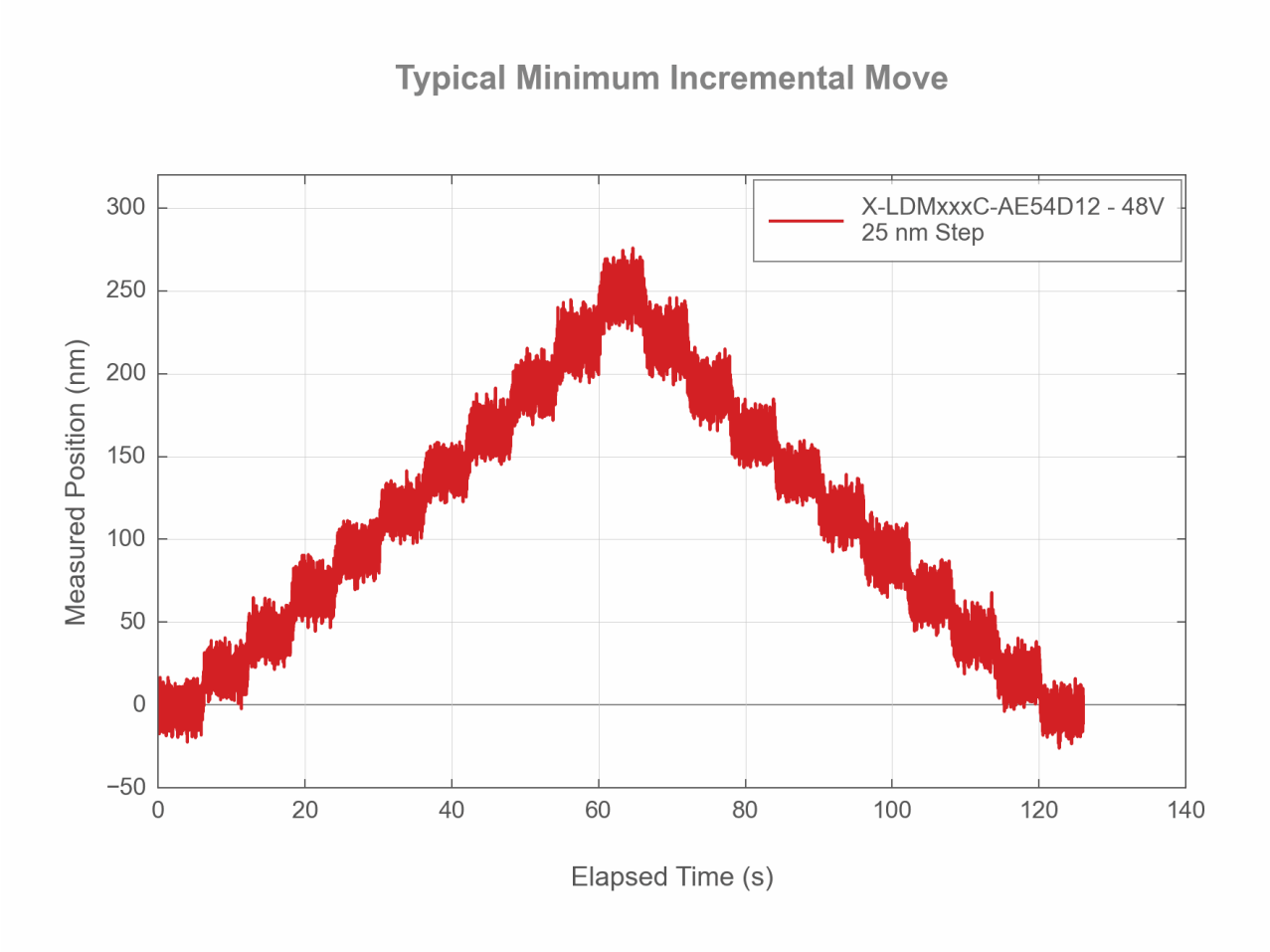
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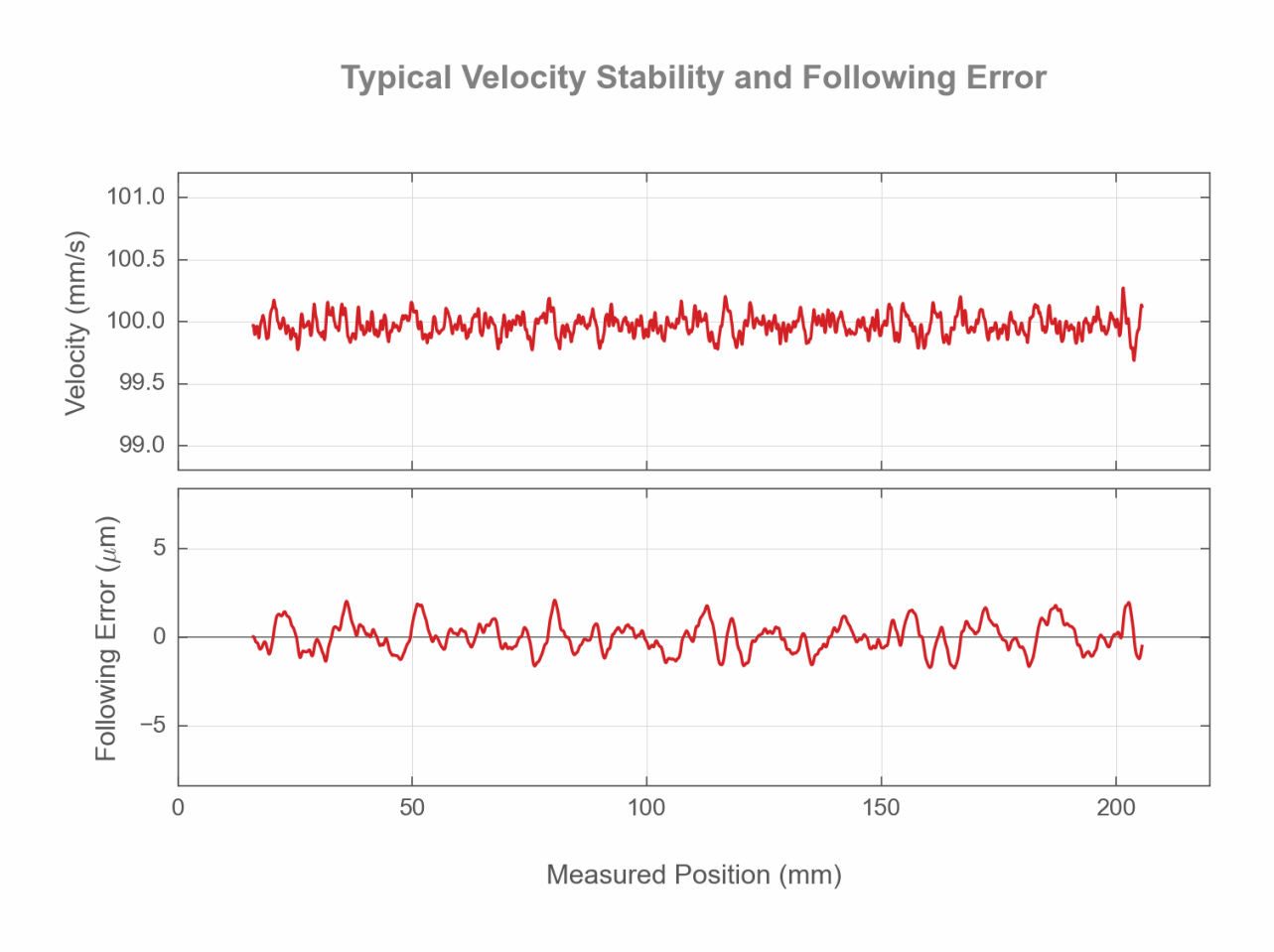
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Typical Minimum Incremental Move



Typical Velocity Stability And Following Error



Contact

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LDM-AE Series Datasheet



- 60, 110, 210 mm travel options
- Up to 1.2 m/s speed and up to 3.5 g acceleration
- High repeatability (80 nm) and accuracy (1 µm), with 4 nm minimum incremental move
- Direct position measurement from 1 nm resolution linear encoder
- Non-contact ironless linear motor for high dynamic performance & reliability
- Designed for use with MCC controllers for coordinated multi-axis motion
- With AutoDetect, Zaber controllers automatically configure settings for the connected peripheral

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LDM-AE Series Overview

Zaber's LDM-AE Series devices are motorized linear stages suited for applications demanding outstanding precision, throughput, and reliability. A centrally mounted linear encoder results in 1 µm position accuracy and consistent movement steps down to 4 nm. LDM-AE devices feature oversized ironless linear motors, providing high speed and acceleration, while minimizing heat generation to improve repeatability. Both the drive and encoder are non-contact and have no moving cables, resulting in an extremely robust system.

The stages are designed to connect directly to our MCC controllers using a single cable. Set-up is easy with AutoDetect. Once connected, the controller will automatically detect and configure the LDM-AE.

For more information visit: https://www.zaber.com/products/linear-stages/LDM-AE

LDM-AE Series Part Numbering & Options

LDM 060 C - AE54 T10A

Travel
- **060** — 60 mm
- **110** — 110 mm
- **210** — 210 mm

Forcer Size
- **C** — Medium

Encoder Options
- **AE54** — Analog encoder, measure down to 1 nm

Connector
- **T10A** — D-sub 26 panel mount connector with Auto Detect

LDM-AE Series Drawings

- dimensions-LDM-AE (Drawing for the LDM-AE)
- View all drawings and documents at zaber.com

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LDM-AE Series Specifications

Overview

Specification	Value
Built-in Controller	No
Recommended Controller	MCC (48 V) Recommended
AutoDetect	Yes
Axes of Motion	1

Positioning Performance

Specification	Value
Accuracy (unidirectional)	1 µm (0.000039 ")
Repeatability	<0.08 µm (<0.000003 ")
Minimum Incremental Move	4 nm

Load Performance

Specification	Value
Peak Thrust	100 N (22.4 lb)
Maximum Continuous Thrust	35 N (7.8 lb)
Maximum Centered Load	185 N (41.5 lb)
Maximum Moment (Pitch)	12 N·m (8.9 lb·ft)
Maximum Moment (Roll)	12 N·m (8.856 lb·ft)
Maximum Moment (Yaw)	12 N·m (8.856 lb·ft)

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Speed

Specification	Value
Maximum Speed	1200 mm/s (47.244 "/s)
Minimum Speed	0.61 nm/s
Speed Resolution	0.61 nm/s
Typical Velocity Stability	± 0.11% at 100 mm/s with a 1.0 kg payload

Encoder & Sensing

Specification	Value
Encoder Type	Linear analog encoder
Encoder Count Size	1 nm

Motor

Specification	Value
Motor Type	Moving Magnet Track Linear Motor (3 phase)
Motor Rated Current	2400 mA
Motor Winding Resistance	6.4 ohms line-to-line
Motor Winding Inductance	1.24 mH line-to-line
Force Constant	15.8 N/A (3.5 lbs/A)

Mechanical

Specification	Value
Guide Type	Crossed-Roller Bearing
Mounting Interface	M6 threaded holes

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Environmental & Compliance

Specification	Value
Operating Temperature Range	0 to 50 °C
CE Compliant	Yes
Vacuum Compatible	No

Part Number	Travel Range	Weight	Flatness of Travel	Straightness of Travel
LDM060C-AE54T10A	60 mm (2.362 ")	3.73 kg (8.223 lb)	<4 µm (<0.000157 ")	<3 µm (<0.000118 ")
LDM110C-AE54T10A	110 mm (4.331 ")	4.81 kg (10.604 lb)	<4 µm (<0.000157 ")	<3 µm (<0.000118 ")
LDM210C-AE54T10A	210 mm (8.268 ")	6.57 kg (14.484 lb)	<8 µm (<0.000315 ")	<5 µm (<0.000197 ")

Part Number	Pitch Error	Roll Error	Yaw Error	Maximum Acceleration
LDM060C-AE54T10A	0.003 ° (0.052 mrad)	0.002 ° (0.035 mrad)	0.002 ° (0.035 mrad)	34.3 m/s2 (3.5 g)
LDM110C-AE54T10A	0.005 ° (0.087 mrad)	0.005 ° (0.087 mrad)	0.002 ° (0.035 mrad)	24.5 m/s2 (2.5 g)
LDM210C-AE54T10A	0.01 ° (0.174 mrad)	0.005 ° (0.087 mrad)	0.005 ° (0.087 mrad)	14.7 m/s2 (1.5 g)

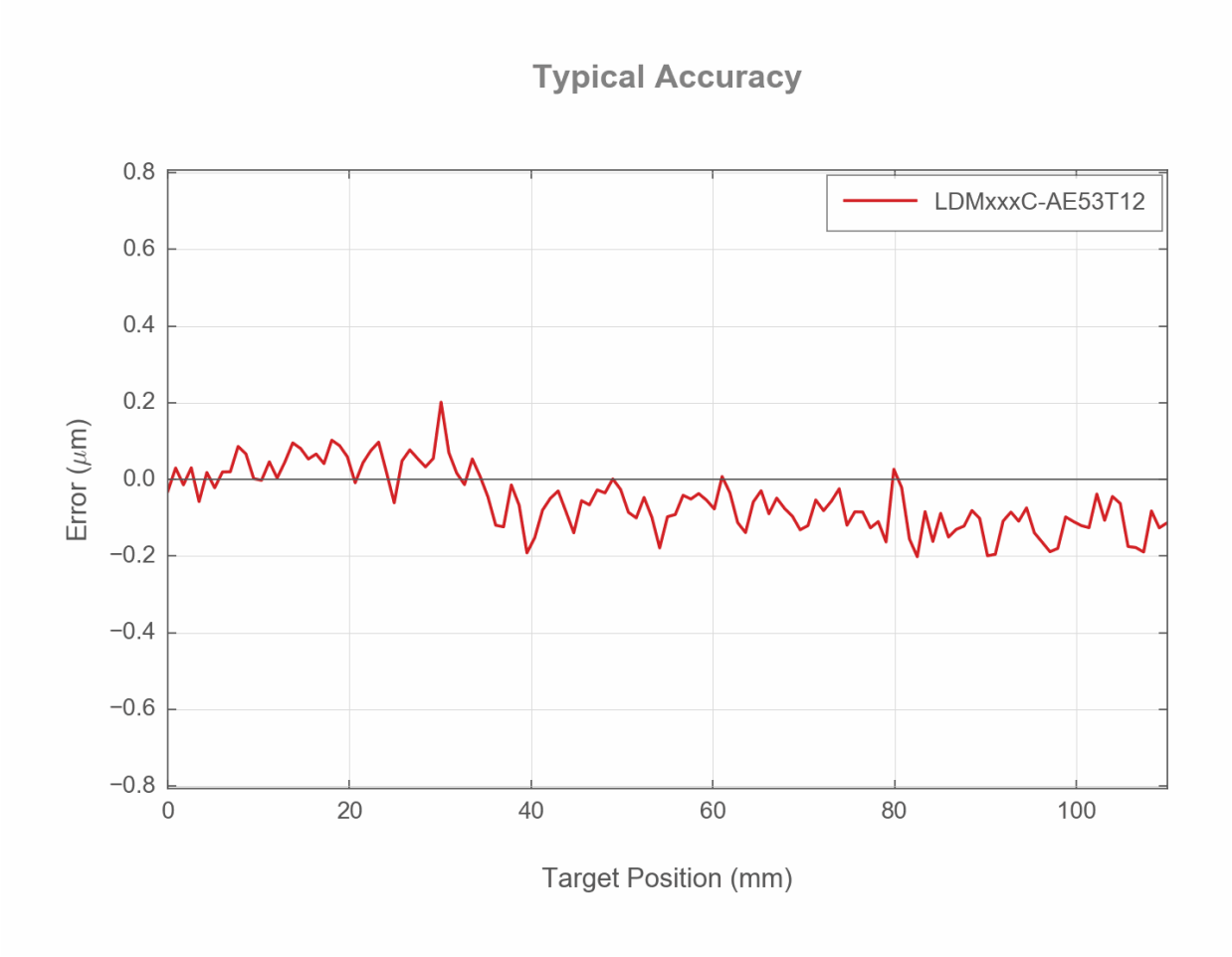
Part Number	Moving Mass
LDM060C-AE54T10A	1.74 kg (3.828 lbs)
LDM110C-AE54T10A	2.29 kg (5.038 lbs)
LDM210C-AE54T10A	3.17 kg (6.974 lbs)

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LDM-AE Series Charts

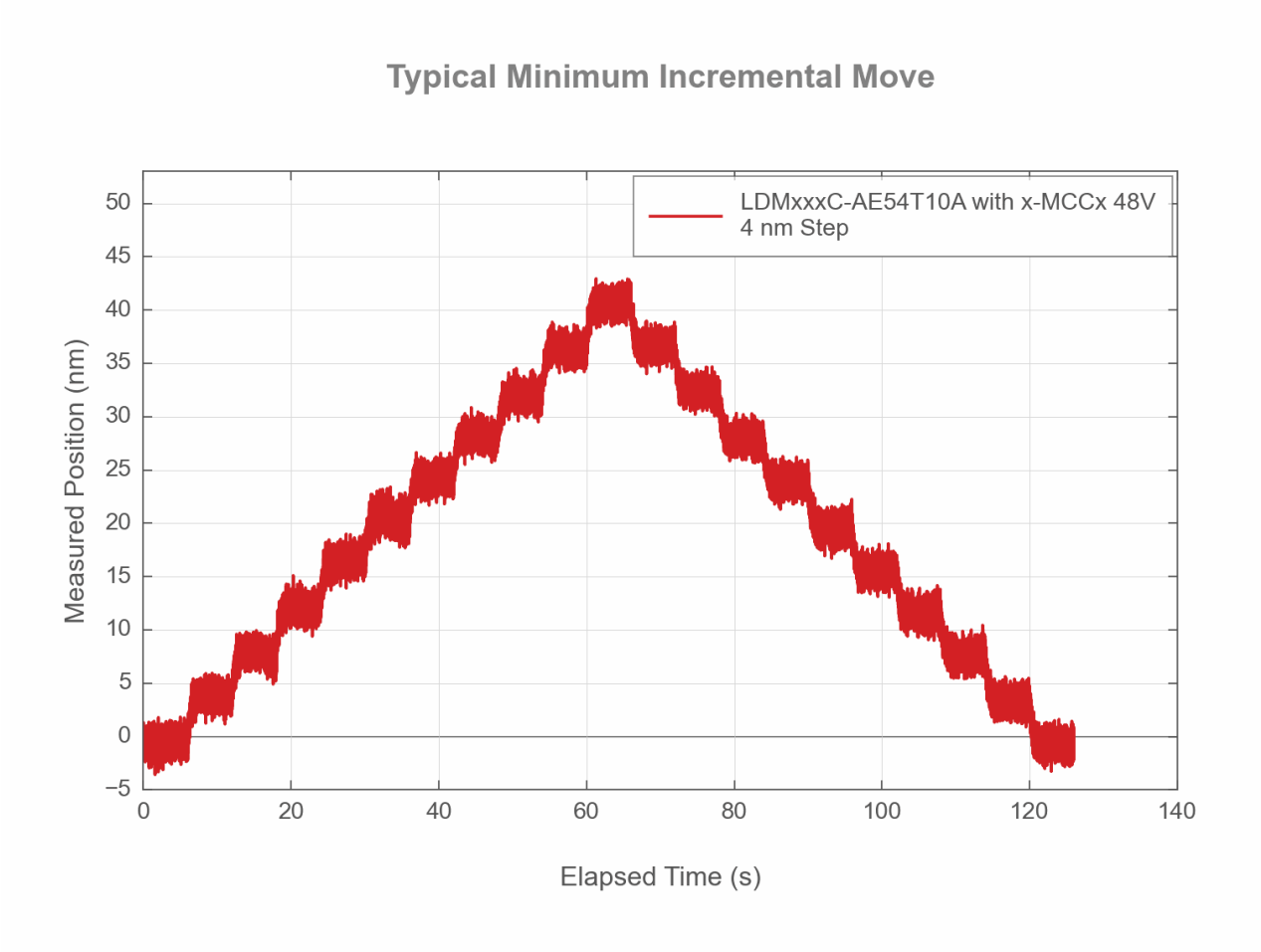
LDMxxxC AE54T12 ACCURACY



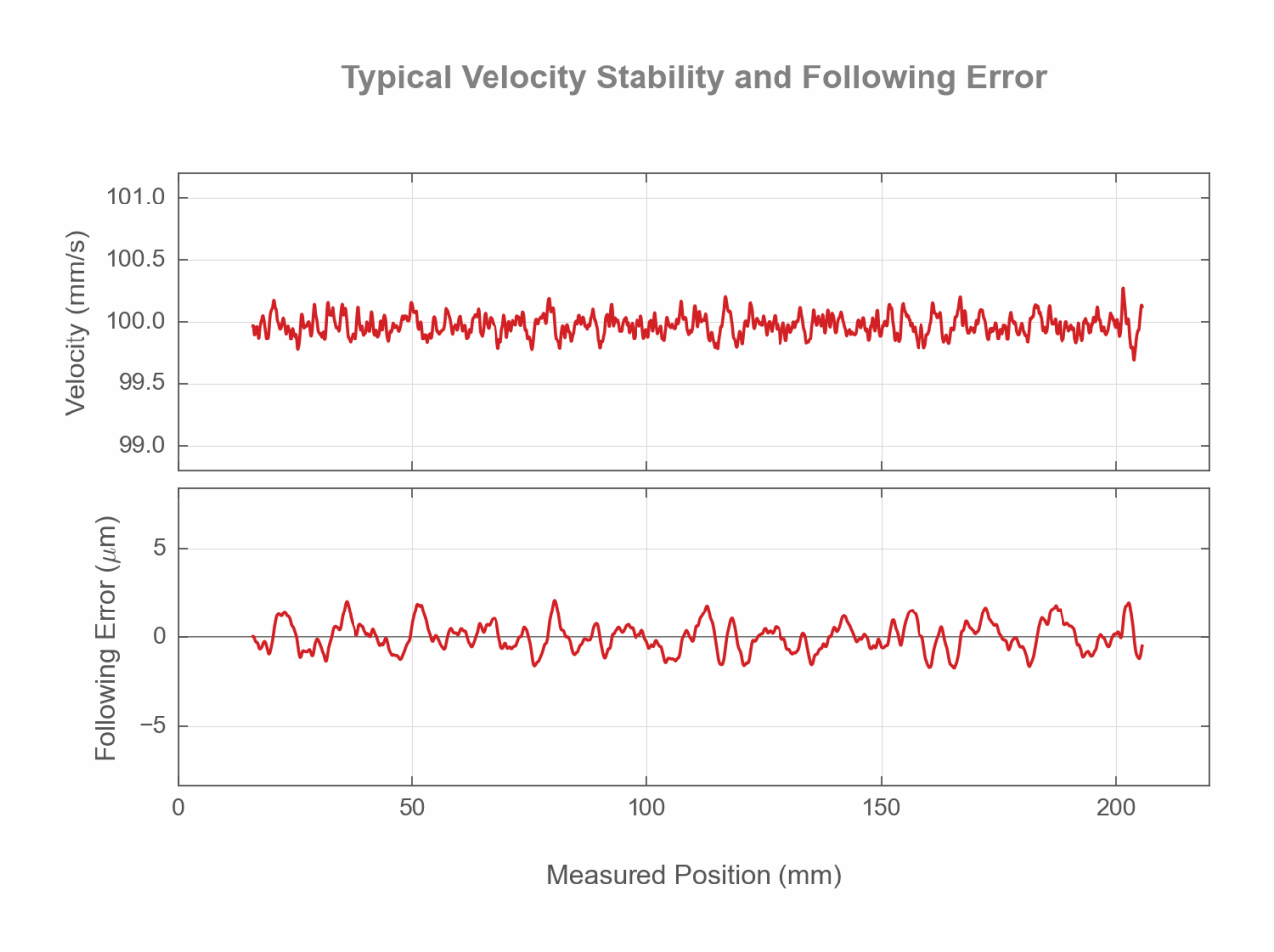
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LDMXXXC AE54T10A Typical Minimum Incremental Move



Typical Velocity Stability And Following Error



Contact

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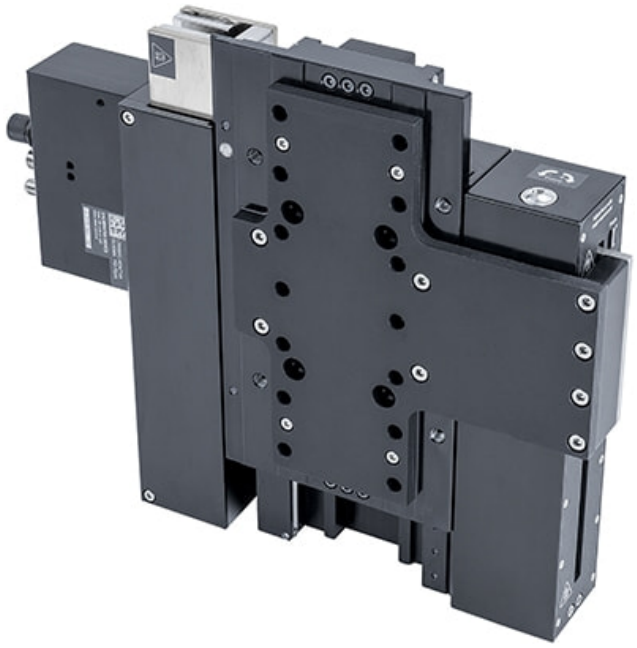
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X-LDM-AEZ Series Datasheet



- 40 mm or 60 mm travel
- Passive, user adjustable magnetic counterbalance for payloads up to 55 N
- High repeatability (80 nm) and accuracy (1 µm), with 8 nm minimum incremental move
- Direct position measurement from 1 nm resolution linear encoder
- Non-contact ironless linear motor for high dynamic performance & reliability
- Built-in controller; daisy-chains with other Zaber products
- Digital IO for interfacing with external hardware

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X-LDM-AEZ Series Overview

Zaber's X-LDM-AEZ Series devices are computer-controlled, motorized stages delivering the high precision, reliability, and speed of X-LDM-AE linear motor stages in a package for vertical applications. A passive magnetic counterbalance compensates for payloads up to 55 N, preventing unwanted motion during power loss. The counterbalance's force can be finely adjusted in seconds with a single screw.

These stages are stand-alone units requiring only a standard 48 V power supply. They connect to the RS-232 port or USB port of any computer and can be daisy-chained with any other Zaber products. The daisy-chain also shares power, making it possible for multiple X-Series products to share a single power supply. Like all of Zaber's products, the X-LDM-AEZ Series is designed to be 'plug and play' and very easy to set up and operate. X-LDM-AEZ devices also include a digital input and two digital outputs for interfacing with external systems. An event-driven trigger system allows devices to be programmed for stand-alone operation based on I/O, time, or movement stimuli.

For more information visit: https://www.zaber.com/products/vertical-stages/X-LDM-AEZ

X-LDM-AEZ Series Part Numbering & Options

X-LDM 040 C - AE54 ZJ2 D12

Travel
040 — 40 mm
060 — 60 mm

Forcer Size
C — Medium

Encoder Options
AE54 — Analog encoder, measure down to 1 nm

Counterbalance Options
ZJ1 — Low force adjustable magnetic counterbalance
ZJ2 — Medium force adjustable magnetic counterbalance

I/O Options
D12 — One digital input, two digital outputs

X-LDM-AEZ Series Drawings

- dimensions-X-LDM-AEZ.png (Drawing for the Drawing for the X-LDM-AEZ)
- View all drawings and documents at zaber.com

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X-LDM-AEZ Series Specifications

Overview

Specification	Value
Built-in Controller	Yes
Manual Control	Indexed knob with push switch
Axes of Motion	1
LED Indicators	Yes
Weight	5.17 kg (11.398 lb)

Positioning Performance

Specification	Value
Accuracy (unidirectional)	1 µm (0.000039 ")
Repeatability	<0.08 µm (<0.000003 ")
Minimum Incremental Move	25 nm
Straightness of Travel	<4 µm (<0.000157 ")
Pitch Error	0.003 ° (0.052 mrad)
Roll Error	0.002 ° (0.035 mrad)
Yaw Error	0.002 ° (0.035 mrad)

Load Performance

Specification	Value
Peak Thrust	50 N (11.2 lb)
Maximum Continuous Thrust	25 N (5.6 lb)
Maximum Moment (Pitch)	12 N·m (8.9 lb·ft)

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Maximum Moment (Roll)	12 N·m (8.856 lb·ft)
Maximum Moment (Yaw)	12 N·m (8.856 lb·ft)

Speed

Specification	Value
Minimum Speed	0.61 nm/s
Speed Resolution	0.61 nm/s

Encoder & Sensing

Specification	Value
Encoder Type	Linear analog encoder
Encoder Count Size	1 nm
Limit or Home Sensing	Optical Index Mark

Motor

Specification	Value
Motor Type	Moving Magnet Track Linear Motor (3 phase)

Power and Communication

Specification	Value
Communication Interface	RS-232
Communication Protocol	Zaber ASCII (Default)
Data Cable Connection	Locking 4-pin M8
Power Supply	48 VDC
Power Plug	2-pin screw terminal
Maximum Current Draw	3000 mA

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Analog & Digital I/O

Specification	Value
Digital Input	1
Digital Output	2

Mechanical

Specification	Value
Counterbalance Type	Adjustable Magnetic
Guide Type	Crossed-Roller Bearing
Mounting Interface	M6 threaded holes
Moving Mass	2.32 kg (5.104 lbs)

Environmental & Compliance

Specification	Value
Operating Temperature Range	0 to 50 °C
CE Compliant	Yes
Vacuum Compatible	No

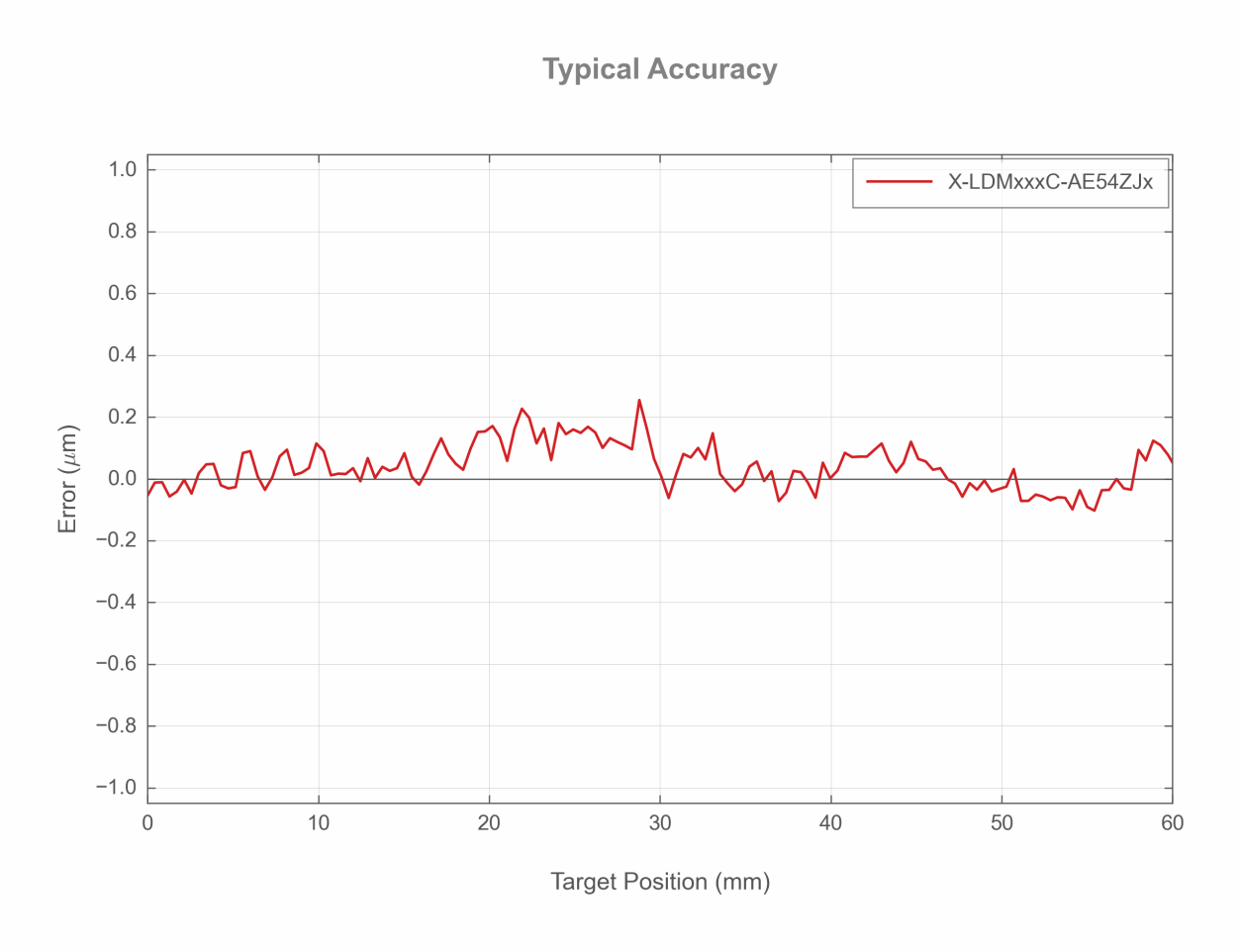
Part Number	Travel Range	Counterbalance Payload Range	Maximum Acceleration	Maximum Speed
X-LDM040C-AE54ZJ2D12	40 mm (1.575 ")	38-55 N	9 m/s2 (0.92 g)	600 mm/s (23.622 "/s)
X-LDM060C-AE54ZJ1D12	60 mm (2.362 ")	10-33 N	16 m/s2 (1.63 g)	800 mm/s (31.496 "/s)

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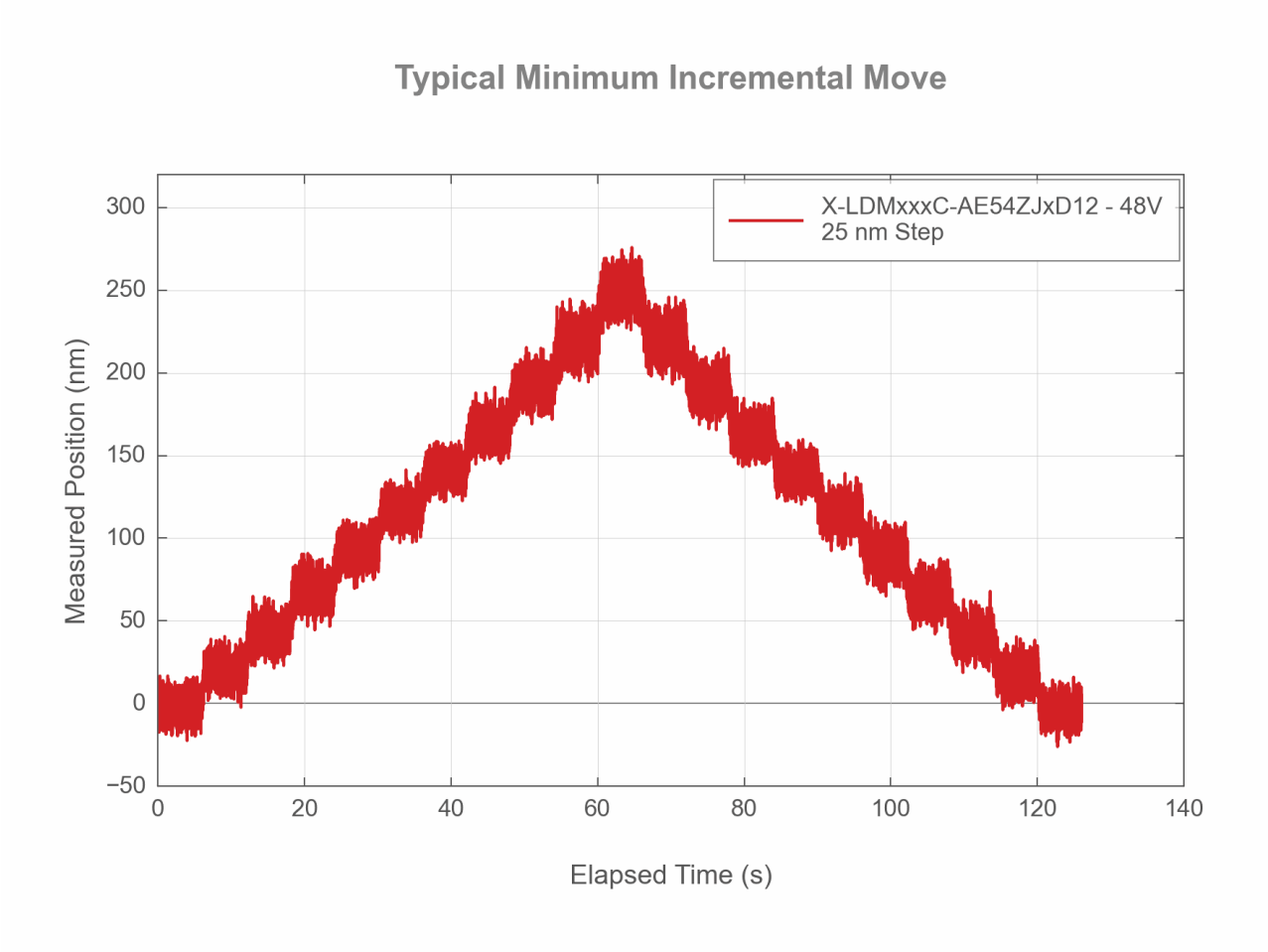
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X-LDM-AEZ Series Charts

Accuracy



Typical Minimum Incremental Move



Contact

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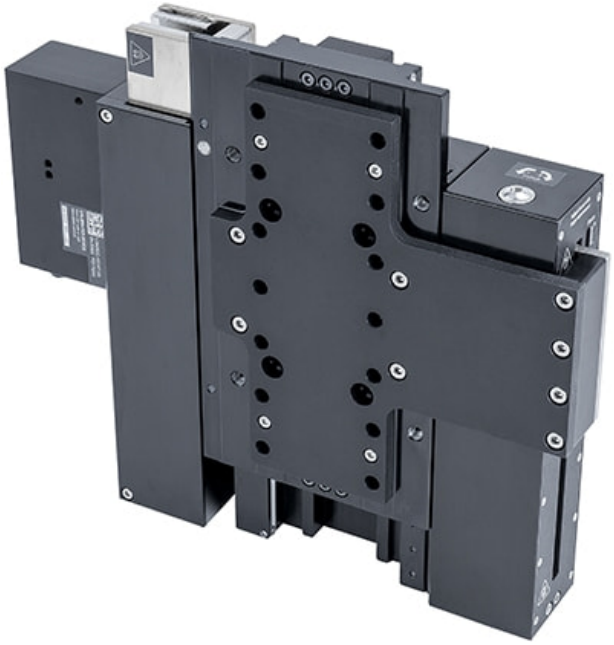
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LDM-AEZ Series Datasheet



- 40 mm or 60 mm travel
- Passive, user adjustable magnetic counterbalance for payloads up to 55 N
- High repeatability (80 nm) and accuracy (1 µm), with 8 nm minimum incremental move
- Direct position measurement from 1 nm resolution linear encoder
- Up to 0.8 m/s speed and up to 1.6 g acceleration
- Non-contact ironless linear motor for high dynamic performance & reliability
- Designed for use with MCC controllers for coordinated multi-axis motion
- With AutoDetect, Zaber controllers automatically configure settings for the connected peripheral

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LDM-AEZ Series Overview

Zaber's LDM-AEZ Series devices are motorized stages delivering the high precision, reliability, and speed of LDM-AE linear motor stages in a package for vertical applications. A passive magnetic counterbalance compensates for payloads up to 55 N, preventing unwanted motion during power loss. The counterbalance's force can be finely adjusted in seconds with a single screw.

These stages are designed to connect directly to our MCC controllers using a single cable. Set-up is easy with AutoDetect. Once connected, the controller will automatically detect and configure the LDM-AE.

For more information visit: https://www.zaber.com/products/vertical-stages/LDM-AEZ

LDM-AEZ Series Part Numbering & Options

LDM 040 C - AE54 ZJ2 T10A

Travel
040 — 40 mm
060 — 60 mm

Forcer Size
C — Medium

Encoder Options
AE54 — Analog encoder, measure down to 1 nm

Counterbalance Options
ZJ1 — Low force adjustable magnetic counterbalance
ZJ2 — Medium force adjustable magnetic counterbalance

Connector
T10A — D-sub 26 panel mount connector with Auto Detect

LDM-AEZ Series Drawings

- dimensions-LDM-AEZ (Drawing for the LDM-AEZ)
- View all drawings and documents at zaber.com

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LDM-AEZ Series Specifications

Overview

Specification	Value
Built-in Controller	No
Recommended Controller	MCC (48 V) Recommended
AutoDetect	Yes
Axes of Motion	1
Weight	5.14 kg (11.332 lb)

Positioning Performance

Specification	Value
Accuracy (unidirectional)	1 µm (0.000039 ")
Repeatability	<0.08 µm (<0.000003 ")
Minimum Incremental Move	8 nm
Straightness of Travel	<4 µm (<0.000157 ")
Pitch Error	0.003 ° (0.052 mrad)
Roll Error	0.002 ° (0.035 mrad)
Yaw Error	0.002 ° (0.035 mrad)

Load Performance

Specification	Value
Peak Thrust	90 N (20.2 lb)
Maximum Continuous Thrust	25 N (5.6 lb)
Maximum Moment (Pitch)	12 N·m (8.9 lb·ft)

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Maximum Moment (Roll)	12 N·m (8.856 lb·ft)
Maximum Moment (Yaw)	12 N·m (8.856 lb·ft)

Speed

Specification	Value
Minimum Speed	0.61 nm/s
Speed Resolution	0.61 nm/s

Encoder & Sensing

Specification	Value
Encoder Type	Linear analog encoder
Encoder Count Size	1 nm
Limit or Home Sensing	Optical Index Mark

Motor

Specification	Value
Motor Type	Moving Magnet Track Linear Motor (3 phase)
Motor Rated Current	2400 mA
Motor Winding Resistance	6.4 ohms line-to-line
Motor Winding Inductance	1.24 mH line-to-line
Motor Connection	D-sub 26
Force Constant	15.8 N/A (3.5 lbs/A)

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Mechanical

Specification	Value
Counterbalance Type	Adjustable Magnetic
Guide Type	Crossed-Roller Bearing
Mounting Interface	M6 threaded holes
Moving Mass	2.32 kg (5.104 lbs)

Environmental & Compliance

Specification	Value
Operating Temperature Range	0 to 50 °C
CE Compliant	Yes
Vacuum Compatible	No

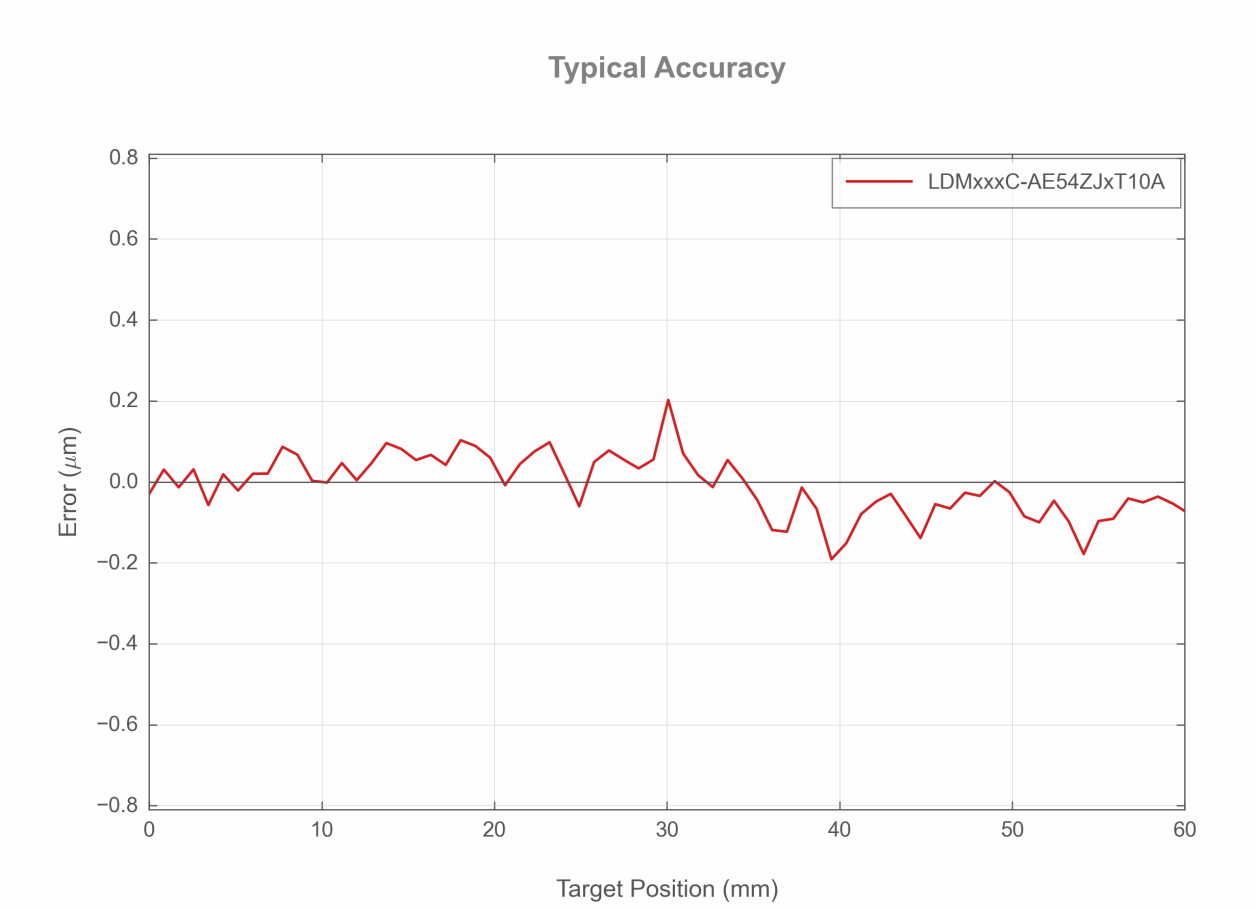
Part Number	Travel Range	Counterbalance Payload Range	Maximum Acceleration	Maximum Speed
LDM040C-AE54ZJ2T10A	40 mm (1.575 ")	38-55 N	9 m/s2 (0.92 g)	600 mm/s (23.622 "/s)
LDM060C-AE54ZJ1T10A	60 mm (2.362 ")	10-33 N	16 m/s2 (1.63 g)	800 mm/s (31.496 "/s)

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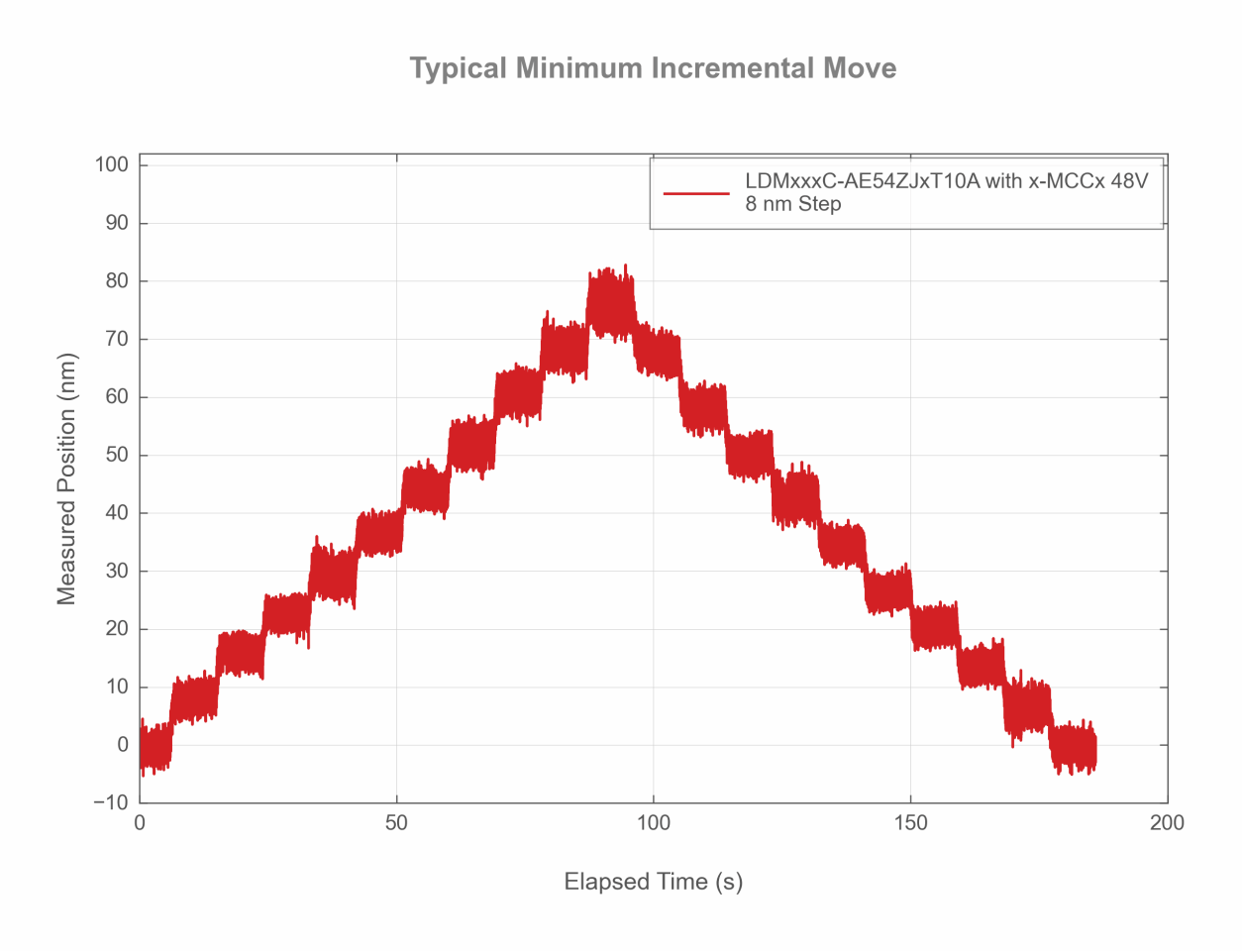
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LDM-AEZ Series Charts

LDMxxxC AE54ZJxT10A Accuracy



LDMxxxC AE54ZJxT10A MIM



Contact

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