

# Linear Commercial Operators



Excellence in  
Product Quality  
and Performance

**Linear**<sup>®</sup>  
*Building On Innovation.*

# Commercial Vehicular Door Operators

## Excellence in Product Quality and Performance

Linear Commercial Operators have always been at the top of the industry's quality and performance charts. And today's operators are the best we've ever made. With our broad line, you are certain to find an operator that is the perfect match for most any application.

## Excellence in Customer Service

Our Commercial Operators are solidly built and backed by the industry's most knowledgeable and experienced field sales and service network.



## Light-Duty Operator



### LC075 | 3/4 HP

#### Maximum Door Height - 14 Ft.

For light-duty commercial 10', 12', and 14' doors and residential carriage house-style 7', 8', and 10' doors applications. Maximum recommended duty cycle is 13 cycles/hour, 50 cycles/day.

#### Standard Mechanical Features

- Gears Mounted in Transmission Type Case
- One Control Board for All Functions (AC units)
- Worm Gear Ends Reinforced with Steel Sleeve
- Drive Shafts Aligned with Brass Bushings
- Built-in Self Diagnostics
- Built-in Isolator on Hanging Brackets
- I-Beam on 12' and 14' Rails

#### Standard Electrical Features

- Monitored Photoeyes with Heavy Duty Brackets
- UL 325 Listed for USA and Canada
- Solid-State Control Circuit for Easy Wiring
- MCT-3 3-Channel Visor Transmitter
- Dual 100W Courtesy Lights
- Deluxe Wall Station
- 115V 1Ø

#### Options

- 7, 8 ft. Belt T Rails
- 7, 8, 10 ft CHCR I-Beam Conversion Rails
- Complete family of MegaCode Transmitters and Receivers

## Medium-Duty Operators



### MD50, MH50, MJ50 | 1/2 HP

#### Maximum Door Height - 14 Ft.

For operation of standard-lift sectional doors to 14' height (MD50) and vertical or high-lift sectional doors (MH50, MJ50). Maximum recommended duty cycle is 10 cycles/hour, 75 cycles/day.

#### Standard Mechanical Features

- All Steel Frame, Powder Coated
- All Sprockets & Pulleys Pinned or Keyed; Solid Steel Shafts
- Adjustable Friction Type Clutch
- Fully-Adjustable, Driven Limits
- Quick Disconnect Door Arm (MD50)
- Floor Disconnect (MJ50)
- Chain Hoist w/Interlock (MH50)

#### Standard Electrical Features

- Solid State Control Circuitry
- UL325 Listed for USA and Canada
- PSC Motor w/Overload Protection
- Three Button Control Station: Open/Close/Stop
- External 3 Tab Receiver Connection
- Solenoid Brake (MJ50/MH50)
- 115V 1Ø

#### Options

- Monitored Electric or Optical Reversing Edge
- Monitored Photoelectric Reversing Systems
- Solenoid Brake (MD50)
- Radio Controls
- Commercial Controls

## Heavy-Duty Operators



**T, J, H | 1/3, 1/2, 3/4, 1 HP**

### Maximum Door Height - 24 Ft.

For heavy-duty applications moving standard-lift sectional doors up to 22'6" in height (T) and vertical or high-lift sectional doors (J & H). 25 cycles/hour, 100 cycles/day.

#### Standard Mechanical Features

- Heavy Gauge, Powder-Coated Steel Frame Rails & Control Box
- All Sprockets & Pulleys Pinned or Keyed; Solid Steel Shafts
- Adjustable Friction Type Clutch
- Fully-Adjustable, Internal, Shaft-Driven Limits
- Quick Disconnect Door Arm (T)
- Floor Disconnect (J)
- Chain Hoist w/Interlock (H)

#### Standard Electrical Features

- Solid State Control Circuitry
- UL325 Listed for USA and Canada
- High Starting Torque, Continuous Duty Motor w/Overload Protection
- Solenoid Brake (J, H & 3/4, 1 HP T)
- Three Button Control Station: Open/Close/Stop
- External 3 tab Receiver Connection
- 115/230V 1Ø, 230/460V 3Ø

#### Options

- Monitored Electric or Optical Reversing Edge
- Monitored Photoelectric Reversing Systems
- Solenoid Brake (1/3 & 1/2 HP T)
- Radio Controls
- Commercial Controls
- Drivetrain and Environmental Modifications

## Extended-Duty Operators



**AUD, AUH, AUJ | 1/3, 1/2, 3/4, 1 HP**

### Maximum Door Height - 24 Ft.

For extended-duty applications moving standard-lift sectional doors up to 22'6" in height (AUD) and vertical or high-lift sectional doors (AUH, AUJ). 35 cycles/hour, 100+ cycles/day.

#### Standard Mechanical Features

- Heavy Gauge, Powder-Coated Steel Frame Rails & Control Box
- All Sprockets & Pulleys Pinned or Keyed; Solid Steel Shafts
- Adjustable Friction Type Clutch
- Fully-Adjustable, Internal, Shaft-Driven Limits
- Quick Disconnect Door Arm (AUD)
- Floor Disconnect (AUJ)
- Chain Hoist w/Interlock (AUH)

#### Standard Electrical Features

- Solid State Control Circuitry
- UL325 Listed for USA and Canada
- High Starting Torque, Continuous Duty Motor w/Overload Protection
- Solenoid Brake (All AUJ & 3/4, 1 HP AUD)
- Three Button Control Station: Open/Close/Stop
- External 3 Tab Receiver Connection
- 115/230V 1Ø, 230/460V 3Ø

#### Options

- Monitored Electric or Optical Reversing Edge
- Monitored Photoelectric Reversing Systems
- Solenoid Brake (1/3 & 1/2 HP AUD)
- Radio Controls
- Commercial Controls
- Drivetrain and Environmental Modifications

## Gearhead/Special-Duty Operators



**GT | 1/2, 3/4, 1 HP**  
**MO | 1/2, 3/4, 1, 1-1/2, 2 HP**

### Maximum Door Height - 24 Ft.

For high-cycle applications moving standard-lift sectional doors up to 22'6" in height (GT) and vertical or high-lift sectional doors or rolling steel doors (MO & MGH). 35 cycles/hour, 150+ cycles/day.

#### Standard Mechanical Features

- Oil-Bath Gear Reduction Unit
- Adjustable Torque Limiter (GT & MGH)
- Fully-Adjustable, Internal, Shaft-Driven Limits
- Quick Disconnect Door Arm (GT)
- Chain Hoist w/Interlock (MO)

#### Standard Electrical Features

- Solid State Control Circuitry
- UL325 Listed for USA and Canada
- High Starting Torque, Continuous Duty Motor w/Overload Protection
- Solenoid Brake
- Magnetic Reversing Starter
- Three Button Control Station: Open/Close/Stop
- External 3 Tab Receiver Connection
- 115/230V 1Ø, 230/460V 3Ø

#### Options

- Monitored Electric or Optical Reversing Edge
- Monitored Photoelectric Reversing Systems
- Radio Controls
- Commercial Controls
- Drivetrain and Environmental Modifications

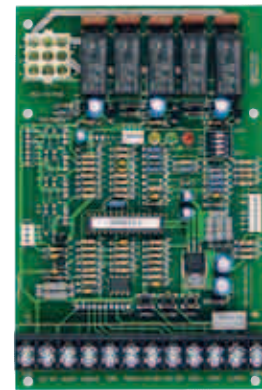
## Linear CDO Cross Reference Guide

Model	Horse Power	Voltage Phase	Maximum Door Height	Type of Drive	Brake	Cycle	In/Sec Speed	Shipping Weight
<b>LC075</b>	3/4 PSC	115V 1Ø	14'	Gear	N/A	13/Hour, 50/Day	9"	63 lbs.
<b>MD50</b>	1/2 PSC	115V 1Ø	14'	V-Belt	Opt.	10/Hour, 75/Day	11"	115 lbs.
<b>MJ50</b>	1/2 PSC	115V 1Ø	14'	V-Belt	Std.	10/Hour, 75/Day	11"	60 lbs.
<b>MH50</b>	1/2 PSC	115V 1Ø	14'	V-Belt	Std.	10/Hour, 75/Day	11"	80 lbs.
<b>T</b>	1/3, 1/2, 3/4 1/3, 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	22'6"	V-Belt	Opt. 1/3, 1/2, Std. 3/4	25/Hour, 100/Day	12"	135 lbs.
<b>J</b>	1/3, 1/2, 3/4 1/3, 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	24'	V-Belt	Std.	25/Hour, 100/Day	12"	85 lbs.
<b>H</b>	1/3, 1/2, 3/4 1/3, 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	24'	V-Belt	Std.	25/Hour, 100/Day	12"	105 lbs.
<b>AUD</b>	1/3, 1/2, 3/4 1/3, 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	22'6"	V-Belt	Opt. 1/3, 1/2, Std. 3/4	25/Hour, 100+/Day	12"	130 lbs.
<b>AUJ</b>	1/3, 1/2, 3/4 1/3, 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	24'	V-Belt	Std.	35/Hour, 100+/Day	11"	90 lbs.
<b>AUH</b>	1/3, 1/2, 3/4 1/3, 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	24'	V-Belt	Std.	35/Hour, 100+/Day	11"	110 lbs.
<b>GT</b>	1/2, 3/4, 1 1/2, 3/4, 1	115/230 1Ø 230/460 3Ø	22'6"	Gear	Std.	35/Hour, 100+/Day	12"	170 lbs.
<b>MO</b>	1/2, 3/4, 1, 1-½ 1/2, 3/4, 1, 2	115/230 1Ø 230/460 3Ø	24'	Gear	Std.	35/Hour, 150+/Day	8"	135 lbs.

## Solid State Control Board

### Features - UL325 Listed

- Same reliable control board updated for 2010 UL requirements
- Reduces complexity, simplifies ordering and installation
- Reduces "learning curve" for new installers
- Diagnostic LEDs
- Wire harness connections for ease of service, no point-to-point wiring
- On-Board Open/Close/Stop buttons for service and adjustments
- Terminals labeled and grouped by function
- Auto-Detect monitored photo beam or optical sensing edge for simplified installation
- Field adjustable built-in functions; Timer to close, Mid-stop, Delay on reverse, Maximum run time, etc.
- Single (five relay) replacement board services all solid state operators



## External Entrapment Protection Devices

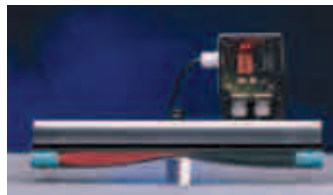
UL325 2010 requires the use of approved monitored external entrapment protection devices or the operator must be constant pressure to close. Linear offers a broad range of approved devices:



**Standard Photo Eyes:**  
Easy to adjust, 25' range, 35' of wire



**MillerEdge (ME and MT Families):**  
Many different edge styles with monitoring



**OPTOEDGE by FRABA:**  
Field configurable enclosed optical edge



**OPTOEYE by FRABA:**  
NEMA4 photo eyes, uses common emitter/detector with the OPTOEDGE

Specifications described in this catalog are subject to change without notice. Please consult factory for the latest product specifications and information.

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