

B-Track K2PL / K2XPL

Power Lift Actuator DC Motor – Acme or Ball Screw

Up to 2,200 lbs. (9786 N) Rated Load
Up to 2.1 in. (53.34 mm)/sec. Travel Speed



Shown with optional direct drive manual override feature without protective cap.



B-Track Power Lift models are modified K2 or K2x actuators. Power Lift units utilize all the standard components and retain all the performance features of the K2 family, without the external cover tube. This allows the Power Lift actuator features to be integrated into a variety of customer designed structures, where a cover tube is not needed.

Extended gear box screws are provided allowing easy attachment to a customer frame. A straight through manual override option is available as shown above. Suggested for tension applications only. Consult factory for compression loading applications.

Features

- **Protective coatings** and O-ring seals throughout
- **Efficient in-line load system**
- **Patented hybrid nut and screw** design, no brake needed in K2 model
- **Integral load holding brake** on K2x model
- **Ball detent overload clutch**
- **Stroke lengths** 4 to 24 inches (100 to 600 millimeters)
- **Load capacities** up to 2200 pounds (9786 N)
- **Speeds up to** 2.1 inches (53.34 millimeters)/sec. travel
- **Thermal overload** incorporated into the motor
- **Heavy wall construction**
- **Double ball bearing motors**
- **Heat treated gears**
- **Optional 90 vdc motor** for use with SBC-AC control
- **Custom mounting** options available

Typical Applications

- Wheelchair and scooter lifts
- Traffic signs
- Beds and tables
- Light masts

Load/Current/Speed/Duty Cycle

- Maximum Static Rating: 3,000 lbs. (13345 N) Static (in-line load)
- Refer to performance chart for load/current/speed capabilities
- Stroke Length Tolerance: +/- .06" (1.52 mm)
- Motor is protected with auto reset breaker inside motor housing (temperature/current/time dependent)
- Overload clutch setting: +25% over rated dynamic load
- Duty cycle is time/temperature/load dependent, suggested guidelines are:
 - 50% max on-time/50% off-time for loads up to 50% of capability
 - 25% max on-time/75% off-time for loads between 50%-80% of capability
 - 10% max on-time/90% off-time for loads between 80%-100% of capability
- (Load/stroke profiles will allow some adjustment variation from these guidelines.)

Operating Environment

- Ambient temp range:
 - 20° F to +150° F (-29° C to +65° C),
 - 40° F to +176° F (-40° C to +80° C) Upon Request.
- Weather resistant enclosure & seals (250 hour salt spray, 500 hour for paint)
- Normal operating voltage: 10-16 vdc (Ratings are at 12 vdc Normal.)
- 14 gauge stranded lead wires-UL style 1230 w/PVC insulation Class F 105° C

Control/Connections

- Lead wires abrasion protected with spiral covering
- Use momentary contact double pole/double throw switch in powering unit for extend/retract operation. (ON)-OFF-(ON) DPDT
- Connectors:
 - Packard 56 series or Delphi Weather-Pack
 - Packard 56 series with 56 series blades (#2984883 & #2962987)
 - Delphi Weather-Pack series (#121015792 & #12010973)

B-Track K2PL / K2xPL**Performance Graphs**

See pages 29-30 for K2PL performance charts.
See pages 37-38 for K2xPL performance charts.

Dimensions

B-Track K2PL	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		4	102	6	152	8	203	10	254	12	305	14	356
	A	7.03	178.6	9.03	229.4	11.03	280.2	13.03	331.0	15.03	381.8	17.03	432.6

Note: Special lengths available

B-Track K2PL	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		16	406	18	457	20	508	22	559	24	610
	A	19.03	483.4	21.03	534.2	23.03	585.0	25.03	635.8	27.03	686.6

Note: Special lengths available

B-Track K2xPL	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		4	102	6	152	8	203	10	254	12	305	14	356
	A	8.53	216.7	10.53	267.5	12.53	318.3	14.53	369.1	16.53	419.9	18.53	470.7

Note: Special lengths available

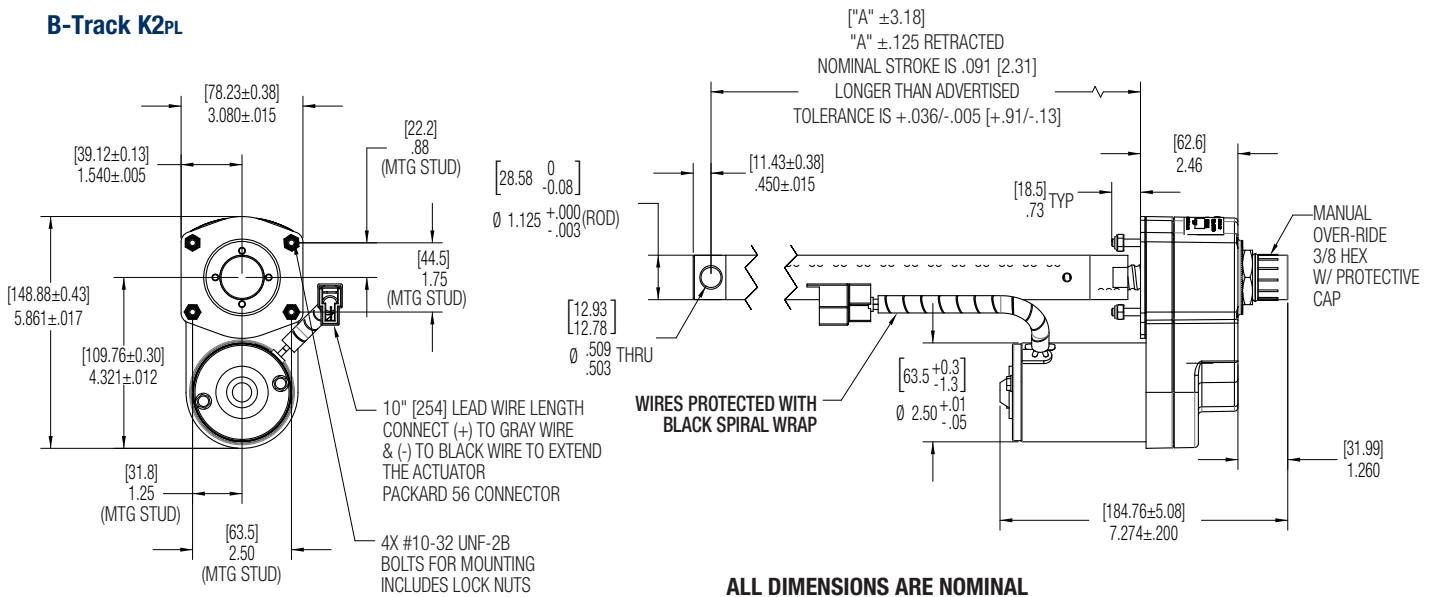
B-Track K2xPL	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		16	406	18	457	20	508	22	559	24	610
	A	20.53	521.5	22.53	572.3	24.53	623.1	26.53	673.9	28.53	724.7

Note: Special lengths available

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Dimensions

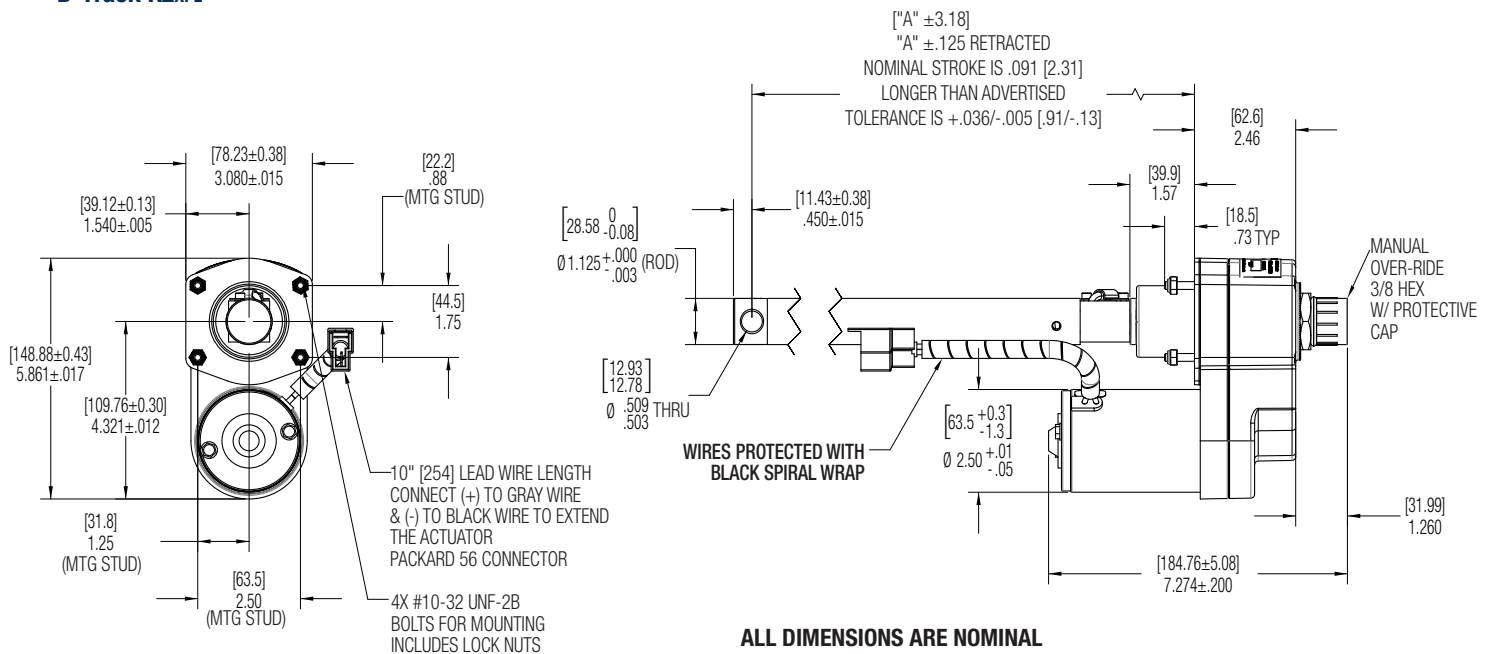
B-Track K2PL



**ALL DIMENSIONS ARE NOMINAL
UNLESS OTHERWISE SPECIFIED**

Measurements in inches, metric in brackets.

B-Track K2XPL



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