

BHOLANATH ELECTRIC ROD STYLE LINEAR ACTUATORS(ERSLA)

ERSLA- P - Electric Rod Style Linear Actuator (Parallel Motor)

Patented technology, Stepper motor based, Programmable

Model no - BH-ERSLA-P-20000N-10mm/sec

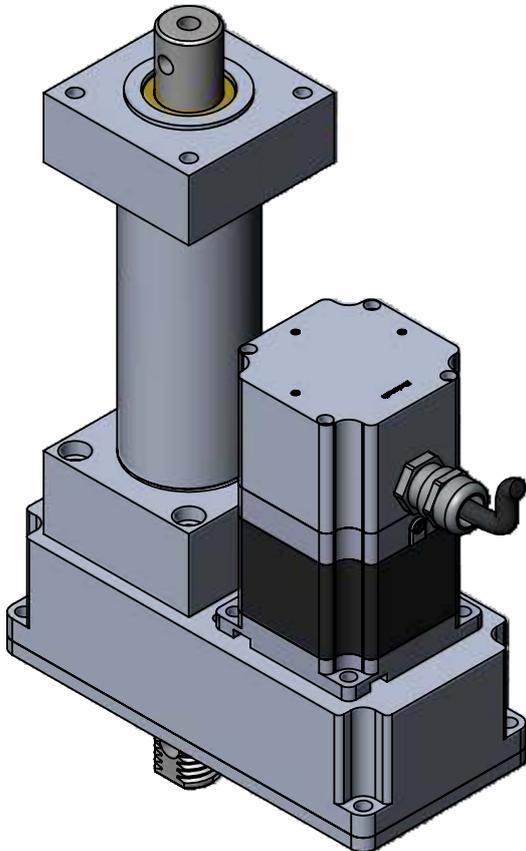
Efficient and economical rod style motorized linear actuators for wide variety of applications - Door and Window opening /closing, gate applications, Hospital beds, Dental chairs, home and kitchen automation, office automation, warehouse automation, assembly line plant and machinery automation packaging line automation etc.

Bholanath electric actuators are available in ready to use with inbuilt stepper driver & controller. The controller is an patented advance technology which includes stepper motor driver and programming logic control and is inbuilt in the **ERSLA -P**. There is no need of limit switches for end limits.

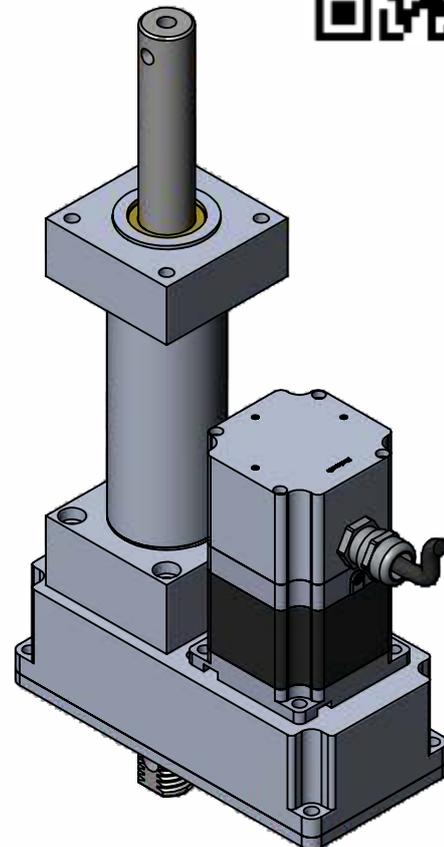
To watch videos kindly click on below youtube links or scan the QR codes

Youtubelink

https://www.youtube.com/watch?v=_KecxMdMI3g



CLOSED POSITION



OPEN POSITION

Standard Features -

Motor - **Stepper Motor**

Nema size - **24**

Control Signal- **Digital Pulse & direction(5Vdc)**

Positional accuracy- **0.05mm**

Operating Voltage - **48VDC**

Wattage - **140W**

Force - **20000N**

Vertical load lift capacity -**50Kg**

Horizontal load push - pull capacity - **100Kg**

Feed speed - **10mm/sec (Different feed speed available on request)**

Stroke Length - **2 inch, 4 inch, 6 inch, 8 inch, 10 inch, 12 inch.**

Piston rod diameter -**16mm**

Protection class - **IP 30**

Duty Cycle - **25%**

Ambient operating temperature - **-10 deg celcius to +45 deg celcius**

Ball screw/Lead screw - **Lead Screw**

Life -**1250 Hours.**

Standard Cable Wire length - **1 Mtr**

Total weight Of ERSLA- **3.5 Kg**

Optional Features

1) **Inbuilt Controller programing option**

This is a programmed fixed feed speed, ready to use, with single phase supply (230VAC/110VAC).

Single switch or double switch with power supply, 1 mtr cable and single phase 230VAC/110VAC input.

- i) Single switch mode (**BH-S1-FL**) (S1) finite length movement :- Pressing the switch S1 the Rsla will move outword to the full travel length, 2nd pressing (S1) the ERSLA will move back to home position
- ii) Double switch mode(**BH-S1,S2-FL**) :- (S1,S2) finite length movement :- Pressing the switch S1 the ERsla will move outword to the full travel length, 2nd pressing (S2) the ERSLA will will move back to home position
- iii) Double switch mode(**BH-S1,S2-UL**) (S1,S2) :- Adjustable movement :- Pressing switch (S1), ERSLA will move in outword direction. Pressing switch S2 the ERSLA will move to word home position . Releasing switch S1 or S2 will stop the ERSLA movement.



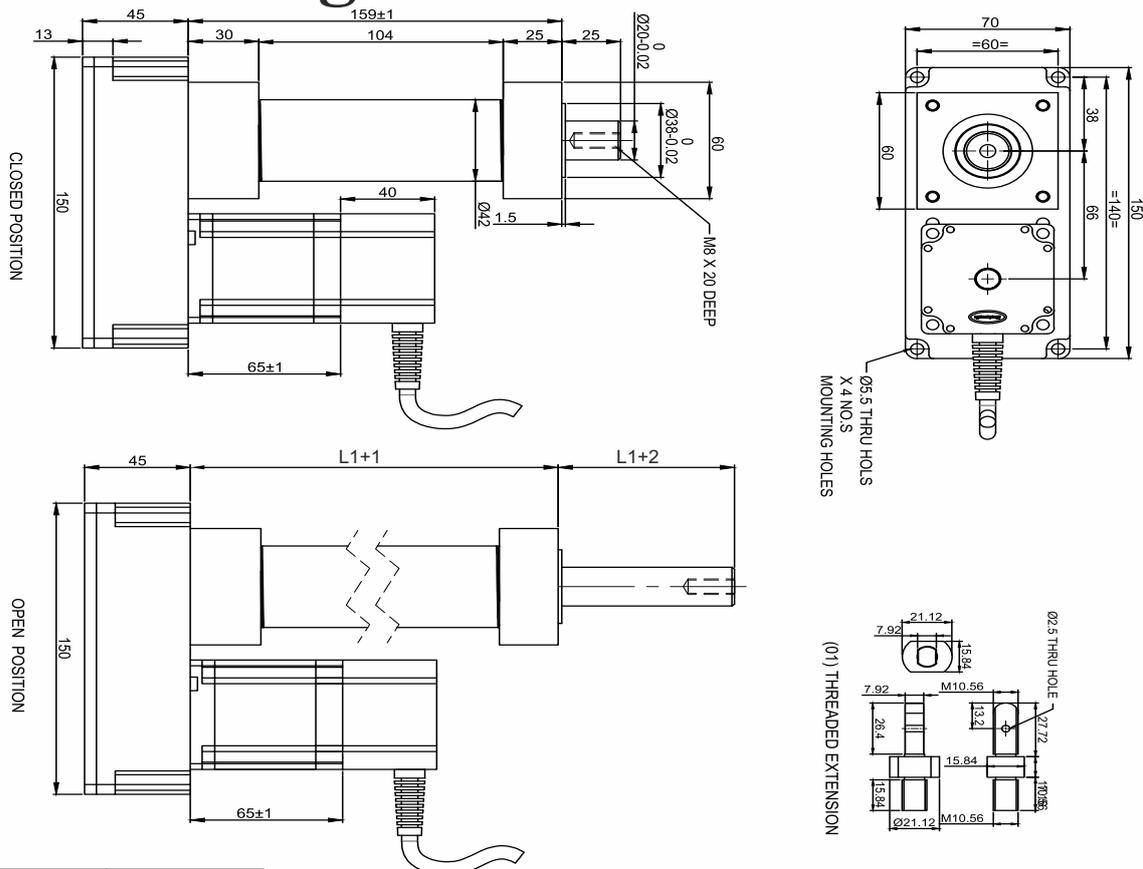
2. Modbus Control (MBUS)
3. Analog Input - 4 -20 mA
4. Analog Input - 2- 10 volt
5. Factory set feed speed other than standard
6. Guide bar
7. Additional fitments as per page no 4
8. The following options are available without inbuilt controller. .
 - i) IP rating ERS LA - IP 60, IP 65
 - ii) Flame proof (FLP) RSLA- IEC/NEC/ATEX
 - iii) High Ambient Temperature ERS LA- 80 deg celsius, 100 deg Celsius, 120 deg Celsius
 - iv) Sub Zero ambient temperature ERS LA (- 20°C),(- 40°C)
 - v) 24VDC Failsafe Brake (BRK) ERS LA
 - vi) Incremental and absolute encoder Feedback ERS LA
 - vii) Step servo motor ERS LA with step servo drive
 - viii) CE Marked ERS LA

Ordering Code:-

BH-ERSLA-P-20000N-10mm/sec (Mention travel length)

Please mention additional options required from page 2 & 3
Optional Features

Schematic diagram



Travel Length (Inch/mm)	L1 (mm)	L2 (mm)
2" / 50mm	244	75
4" / 100mm	294	125
6" / 150mm	344	175
8" / 200mm	394	225
10" / 250mm	444	275
12" / 300mm	494	325

Signal Wiring Details:-

- Yellow → Pulse -
- Green → Dir -
- Blue → ENA-
- White → Com.
- Red → + VDC
- Black → - VDC

ISOMETRIC VIEW
RSLA with matching Accessories

Nema 24 Lever Bracket (BH60-LB)

