

## LINACT-J Linear Actuator

- Typical Applications: Solar Tracking, Industrial Equipment, Furniture, Sweepers, Campers, Instrument Aid Setting, Caravan, Louvers, Window Openers, Medical Beds, Etc.
- DC Permanent magnet motor
- Speeds from 5mm/s up to 58mm/s (No Load)
- Standard Stroke length: 50mm – 1000mm
- Custom stroke lengths can be manufactured.

## Mechanical Data

- Operating temperature -10°C~+65°C
- Protection – IP66
- Standard Voltage: 12Vdc, 24Vdc
- Additional Voltage Options: 36Vdc, 48Vdc
- Built in Limit Switches
- Potentiometer feedback Optional
- Hall feedback Optional
- CE Certified



## Force Data

- Max Load – up to 2 000N (200Kg)
- Max static force – 3000N (300Kg)
- Duty Cycle 25% with full load

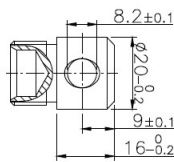
## Transmission Parameters

| Code | Max Dynamic Load (N) | Max Self-Locking (N) | Speed (MM/S)<br>±10% |           | Current A (Normal Temperature) |           |         |           |                |           |                |           |
|------|----------------------|----------------------|----------------------|-----------|--------------------------------|-----------|---------|-----------|----------------|-----------|----------------|-----------|
|      |                      |                      |                      |           | 12V                            |           | 24V     |           | 36V (Optional) |           | 48V (Optional) |           |
|      |                      |                      | No Load              | Full Load | No Load                        | Full Load | No Load | Full Load | No Load        | Full Load | No Load        | Full Load |
| A    | 2000                 | 3000                 | 5                    | 4         | 1.2                            | 3.5       | 0.6     | 2.0       | 0.4            | 1.5       | 0.3            | 1.0       |
| B    | 1200                 | 1600                 | 10                   | 8         | 1.2                            | 3.5       | 0.6     | 2.0       | 0.4            | 1.5       | 0.3            | 1.0       |
| C    | 700                  | 900                  | 18                   | 14        | 1.2                            | 3.5       | 0.6     | 2.0       | 0.4            | 1.5       | 0.3            | 1.0       |
| D    | 200                  | 300                  | 58                   | 45        | 1.5                            | 4         | 0.8     | 2.5       | 0.5            | 1.5       | 0.3            | 1.0       |

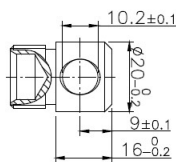
## Max Stroke

| Code | Max Dynamic Load (N) | Max Stroke, without Potentiometer | Max Stroke, with Potentiometer |
|------|----------------------|-----------------------------------|--------------------------------|
| A    | 2000                 | 1 000mm                           | 200mm                          |
| B    | 1200                 | 1 000mm                           | 200mm                          |
| C    | 700                  | 1 000mm                           | 200mm                          |
| D    | 200                  | 1 000mm                           | 300mm                          |

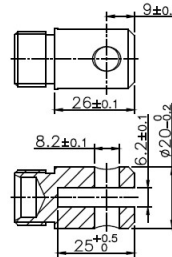
## Front End Options: (Standard is F01)



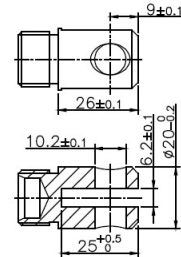
F01



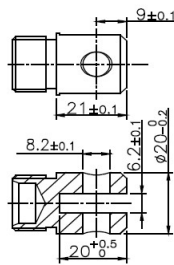
F02



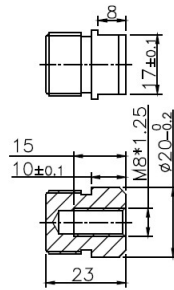
F03



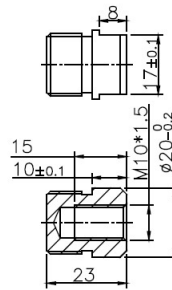
F04



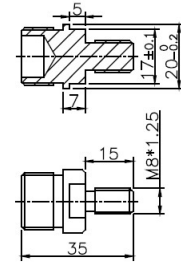
F05



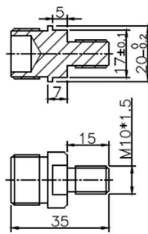
F06



F07

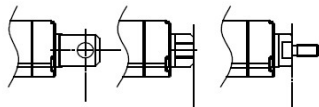


F08

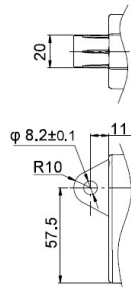


F09

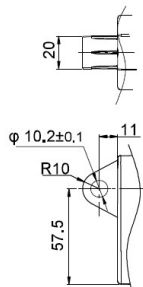
Start of Installation Length:



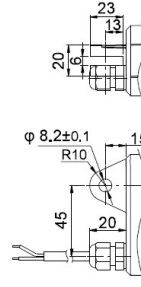
## Rear End Options: (Standard is R01)



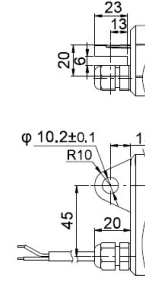
R01



R02

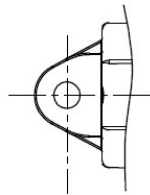


R03



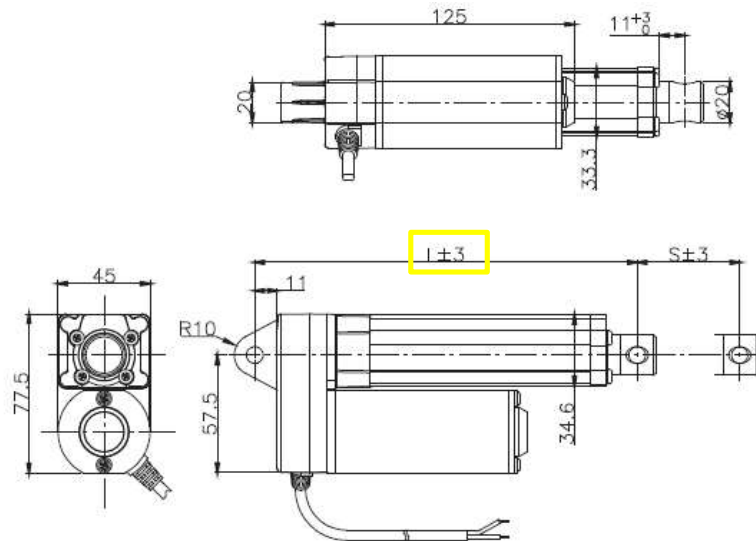
R04

End of Installation Length:



## Dimensional Drawing:

### A. Overall dimensions: - **Without** Potentiometer (Standard)



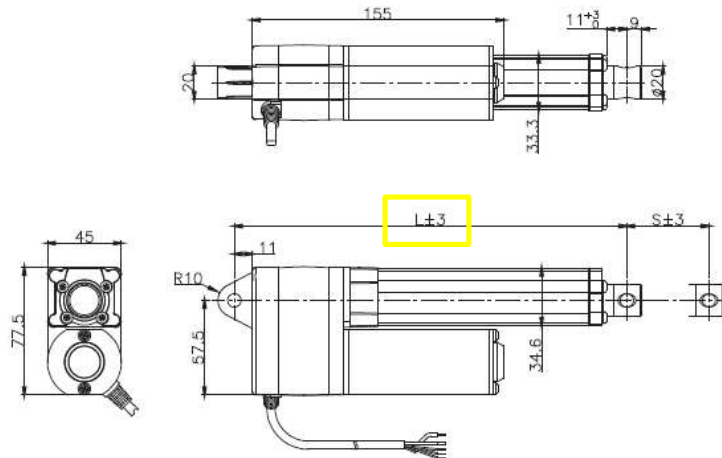
Installation Size: **L** = Fully Retracted Length

| LINACT-J                                                                            |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stroke Length (Travel)                                                              | Fully Retracted                                                                     | Fully Extended                                                                        |
|  |  |  |
| 50mm                                                                                | 158mm                                                                               | 208mm                                                                                 |
| 100mm                                                                               | 208mm                                                                               | 308mm                                                                                 |
| 150mm                                                                               | 258mm                                                                               | 408mm                                                                                 |
| 200mm                                                                               | 308mm                                                                               | 508mm                                                                                 |
| 250mm                                                                               | 358mm                                                                               | 608mm                                                                                 |
| 300mm                                                                               | 420mm                                                                               | 720mm                                                                                 |
| 400mm                                                                               | 520mm                                                                               | 920mm                                                                                 |
| 500mm                                                                               | 630mm                                                                               | 1130mm                                                                                |
| 650mm                                                                               | 800mm                                                                               | 1450mm                                                                                |
| 750mm                                                                               | 900mm                                                                               | 1650mm                                                                                |
| 1000mm                                                                              | 1200mm                                                                              | 2200mm                                                                                |

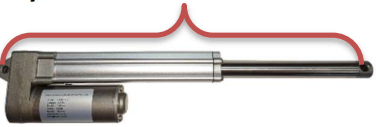
B. Reed Switch

|          |      |
|----------|------|
|          | mm   |
| Optional | + 10 |

C. Overall dimensions: - **With** Potentiometer



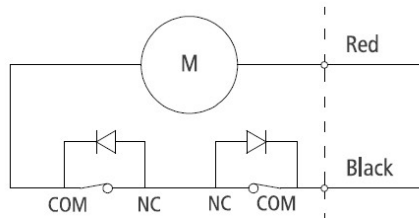
Installation Size: **L** = Fully Retracted Length

| LINACT-J-POT                                                                        |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stroke Length (Travel)                                                              | Fully Retracted                                                                     | Fully Extended                                                                        |
|  |  |  |
| 100mm                                                                               | 240mm                                                                               | 340mm                                                                                 |
| 200mm                                                                               | 340mm                                                                               | 540mm                                                                                 |
| 300mm                                                                               | 450mm                                                                               | 750mm                                                                                 |

## Signal Feedback:

### 0. Standard Limit Switches without Signal Feedback

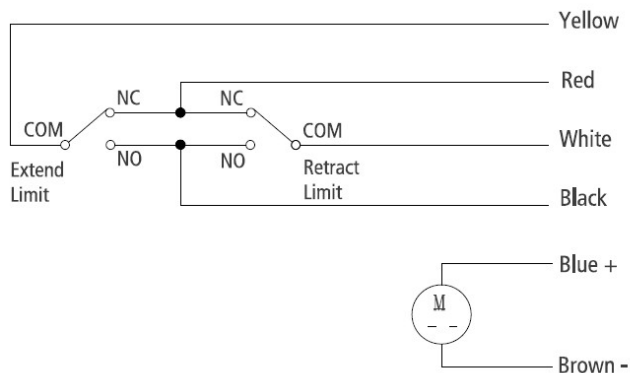
Standard LINACT-J Range comes with Limit Switches that shut the motor off automatically at the end of its travel.



| Wiring  |       |     |
|---------|-------|-----|
|         | Black | Red |
| Extend  | -     | +   |
| Retract | +     | -   |

### 1. Endstop Signal (Optional)

The actuator can be equipped with Endstop signals output, but it will not auto-stop at neither of the travel.



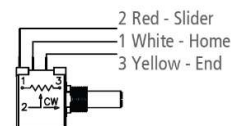
| Power Wire Coding |       |      |
|-------------------|-------|------|
|                   | Brown | Blue |
| Extend            | -     | +    |
| Retract           | +     | -    |

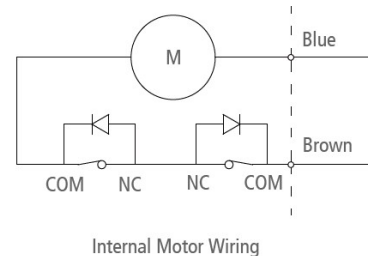
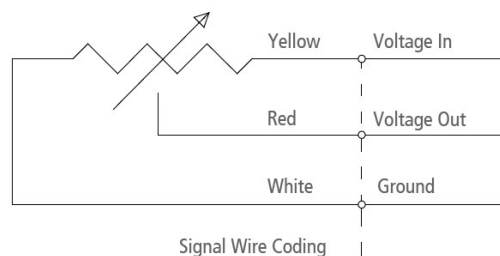
| Signal Wire Coding |                              |
|--------------------|------------------------------|
| Black              | Extend / Retract limit, N.O. |
| Red                | Extend / Retract limit, N.C. |
| Yellow             | Extend limit, COM.           |
| White              | Retract limit, COM.          |

### 2. Potentiometer (Optional)

| Code    | Max. Stroke | Resistance Value per mm |
|---------|-------------|-------------------------|
| A, B, C | 200mm       | 0.047K $\Omega$         |
| D       | 300mm       | 0.030K $\Omega$         |

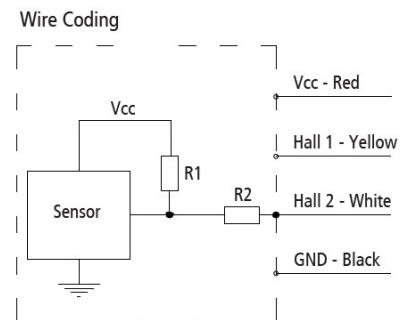


Connect 1+2, resistance value increase, actuator extend.

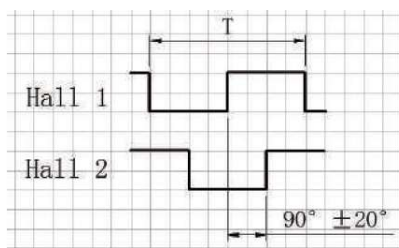


### 3. Hall Sensor (Standard dual-sensor) (Optional)

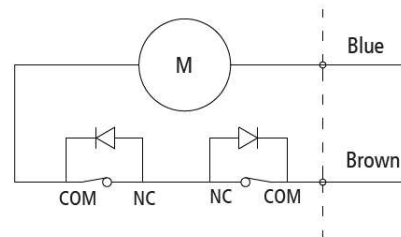
| Code | Pulse Equivalent Per Sensor (pulse/mm) |                         |
|------|----------------------------------------|-------------------------|
|      | 1 pole pair                            | 4 pole pairs (Standard) |
| A    | 12.6                                   | 50.4                    |
| B    | 6.3                                    | 25.2                    |
| C    | 3.15                                   | 12.6                    |
| D    | 1.0                                    | 4                       |



\* Power supply (V)= 5~15V



Oscillogram



Internal Motor Wiring

### 4. Reed Switch (Optional)

Standard N.O. Contact

Optional N.C. Contact