

Actuator ID13



- ID13 is a low backlash (small end play) actuator, which is suitable for high precision application. To make it more flexible for different limited installation space, there are 2 motor directions available for customer to choose. Besides, ID13 also can be chosen with external reed switches, which work as limit switches, and make it possible for users to adjust stroke by themselves.
- Main applications : industrial
- Input voltage : 24V DC / 12V DC
- Max. dynamic load : 1200N (ACME) / 4000N (Ball Screw)
- Max. static load : 1800N (ACME) / 6000N (Ball Screw)
- ◆ Max. current: 7.0A @ 24V DC
- ◆ Max. speed: 35.0 mm/sec @no load
- ◆ Stroke : 100~350mm
- Duty cycle : 10% or 2 min continuous operation in 18min.
- ◆ IP protection level : IP54
- Color : Black
- Certified : UL E356466
- Ball screw or ACME threaded spindle is available
- ♦ Ambient operation temperature : -25°C~+65°C
- Stainless steel extension tube
- Overload protection by clutch



Options

- Motor mounting direction (Refer to paragraph Dimension)
- Digital positioning feedback : Hall effect sensor
- ♦ IP Protection Level : IP65
- ◆ External Limit Switches : NC-type (i.e. normal close) reed switches

Compatibility

1. Control box

None

2. Accessory

None

Performance Data



12V DC

| Spindle type | Model No. | Push/Pull Max. (N) | Speed (mm/s) | | Current (A) | | | |
|--------------|--------------------|-----------------------|--------------|-----------|-------------|-----|-----------|-----|
| | | | No load | Full load | No load | | Full load | |
| | | | | | 12V | 24V | 12V | 24V |
| ACME | ID13-XXFDA-XXX.XXX | 1200 | 35 | 25 | 2 | 1 | 14 | 7 |
| Ball Screw | ID13-XXF4B-XXX.XXX | 4000 | 10 | 7 | 2 | 1 | 10 | 5 |

Dimensions





*ML means motor is mounted on the left hand side and MR means motor is mounted on the right hand side.

| Stroke (S) (±3mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Retracted Length (A) (A±3mm) | 265 | 315 | 365 | 415 | 465 | 515 | 565 |
| Extended Length (B) (A±3mm) | 315 | 415 | 515 | 615 | 715 | 815 | 915 |

Front Connector



Rear Connector



Wiring

- 1. Standard Type
 - When Red (M+) is connected to "+" and Black (M-) is connected to "-" of DC power, the actuator will extend.



| Wiring | | | |
|--------|----|--|--|
| Red | M+ | | |
| Black | M- | | |

2. With Hall Effect Sensor

- When Red (M+) is connected to "+" and Black (M-) is connected to "-"of DC power, the actuator will extend.
- Brown, Blue, Black (24AWG) are positioning signal wires as shown in table.
- Signal resolution : 7.69 pulses/mm (ACME) · 25 pulses/mm (Ball Screw)



| Wiring | | | | |
|---------------|------|--|--|--|
| Red | M+ | | | |
| Black | M- | | | |
| Brown (24AWG) | VCC | | | |
| Blue (24AWG) | Data | | | |
| Black (24AWG) | GND | | | |



- **2**: 250mm
- **5**: 500mm
- A: 1000mm

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