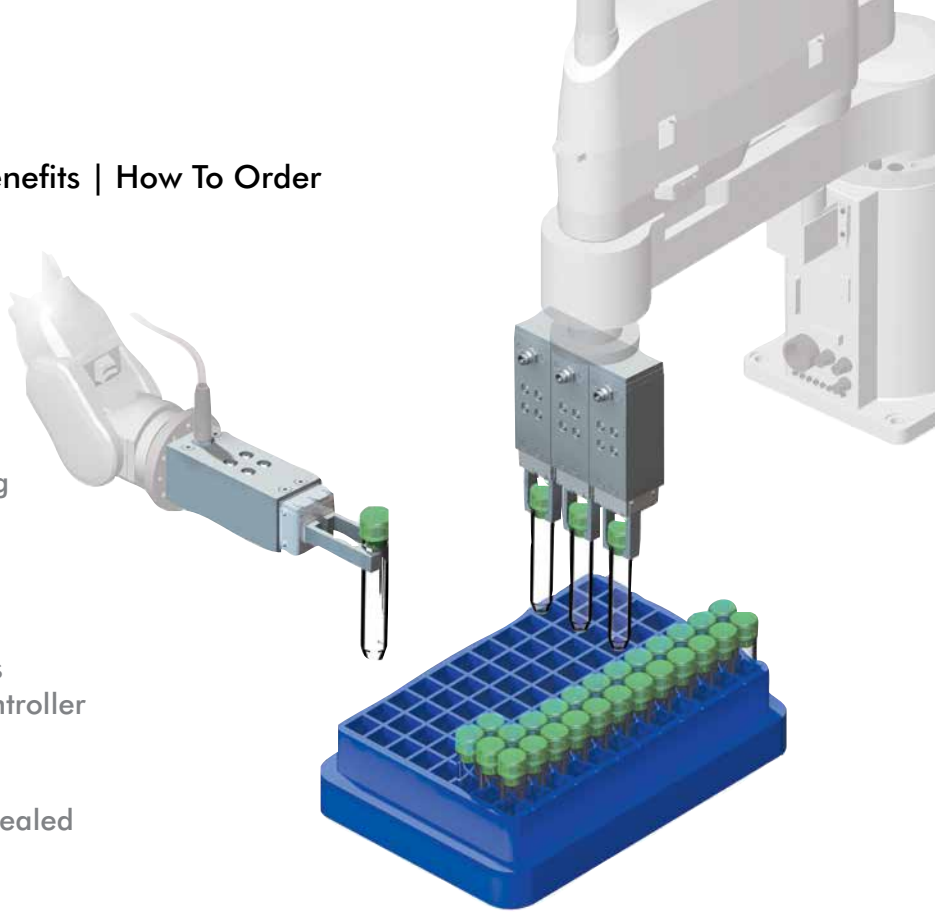
RPE-100 LIGHT-DUTY

Electric Parallel Grippers | Features and Benefits | How To Order



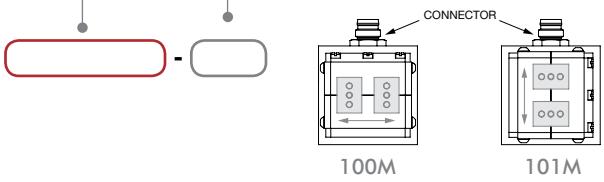
Features:

- Ideal for semiconductor and life sciences laboratory applications
- Compact design allows several units mounted closely together to grip multiple parts simultaneously
- Fully integrated electronics, no programming or software. Operates from PLC discrete open/close commands
- Fail-safe operation with spring closed maintains full grip force upon power loss
- No programming required. Gripper actuates using a 50ms discrete pulse from PLC or controller
- Minimized finger backlash and side play with low friction Dual-V bearing system
- Maintenance free internally lubricated and sealed
- Clean room 100 rated IP54

How To Order

Base Model
RPE

Gripping Orientation
100M Perpendicular to Connector
101M In-line to Connector



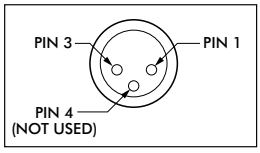
Accessories

Sensor Accessories	Part Number
Inductive Sensor Mounting Kit (Mounts 1 sensor)	OSMK-130
PNP Inductive Sensor with Quick Connect	OISP-019
NPN Inductive Sensor with Quick Connect	OISN-019
Quick Disconnect Sensor Cable, 2m long	CABL-010
Quick Disconnect Sensor Cable, 5m long	CABL-013

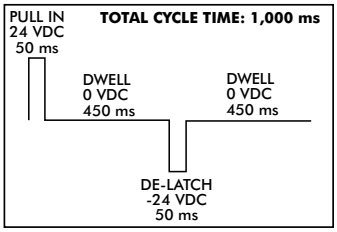
*Sensor and cable sold separately.

Electrical Interface: Pin Out

(Looking into the head of the connector on gripper)

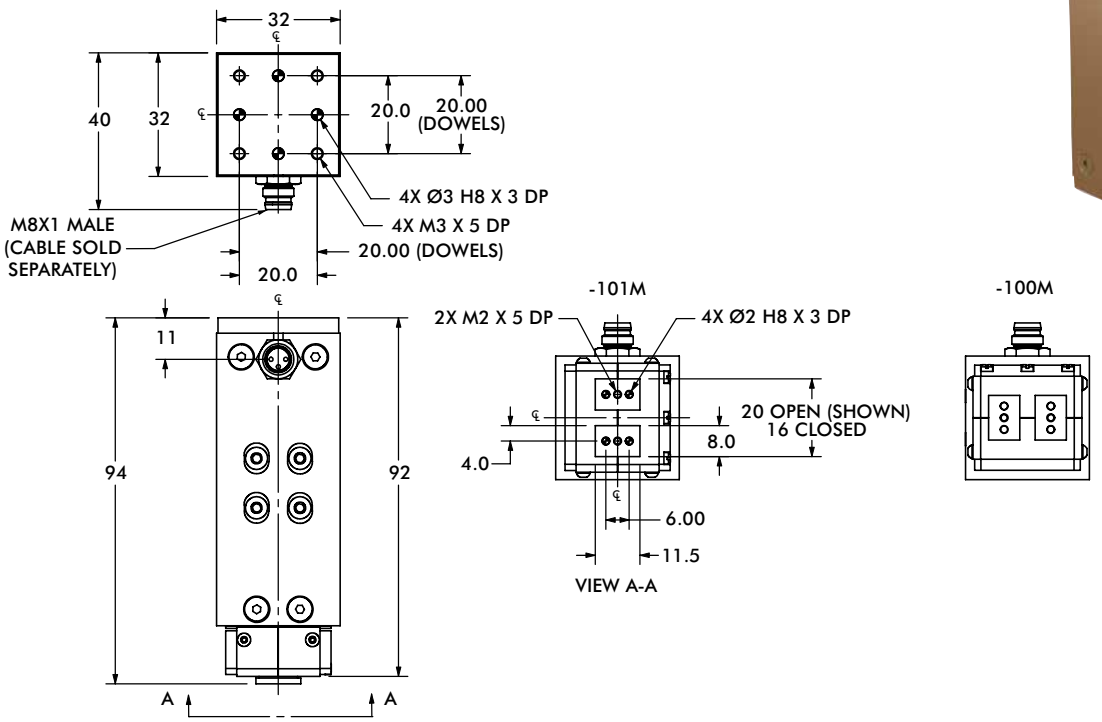


PIN ORIENTATION



TIMING DIAGRAM

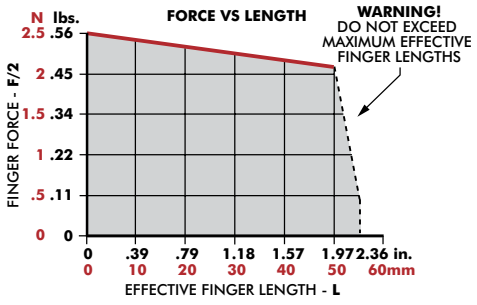
Electric Parallel Grippers | Dimensions and Technical Specifications

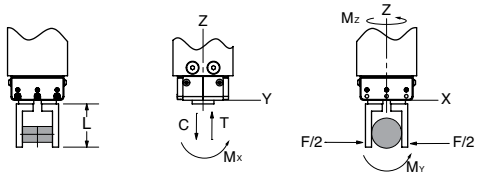


Specifications

Specifications	Units	RPE-100M/101M
Total Grip Force	N [lbf]	5 [1.1]
Stroke	mm [in]	4 [0.16]
Repeatability	mm [in]	±0.025 [0.001]
Accuracy	mm [in]	±0.051 [0.002]
Actuation Time	ms	100
Temperature Range	°C [°F]	5°~50° [40°~120°]
Power Requirement @ 100% duty cycle	W	40 (Peak)
Voltage	VDC	24
Current - Peak	amps	1.5 (max)
Current - Continuous	amps	0.175
Ingress Protection Class (IP)		IP54
Clean Room		100 (Krytox)
Weight	kg [lbs]	0.23 [0.50]
Max Finger Length	mm [in]	50 [1.90]
Durability	cycles	5 Million

Loading Information





RPE-100, RPE-101	Static	Dynamic
Maximum Tensile **T**	59 N [13 lbs]	20 N [4.5 lbs]
Maximum Compressive **C**	59 N [13 lbs]	20 N [4.5 lbs]
Maximum Moment M_x	0.75 Nm [2.7 lbf-in]	0.3 Nm [6.6 lbf-in]
Maximum Moment M_y	1.2 Nm [10.6 lbf-in]	0.4 Nm [3.5 lbf-in]
Maximum Moment M_x	0.75 Nm [6.6 lbf-in]	1.1 Nm [9.7 lbf-in]

†Capacities are per set of jaws and are not simultaneous