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TECHNICAL SPECIFICATIONS

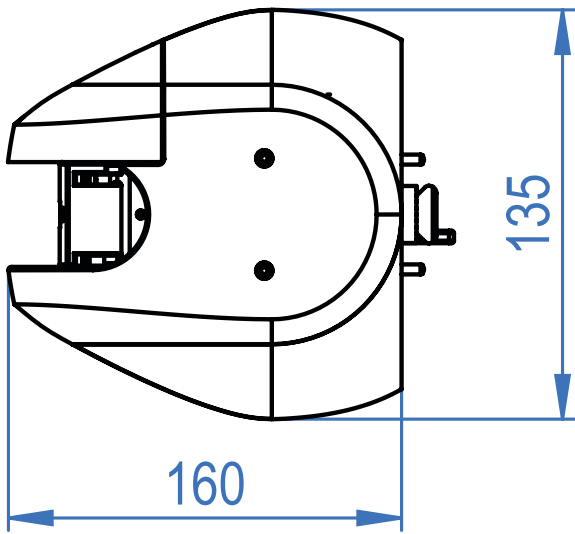
P-Grip[®]

Gripper for sensitive
and safe grasping

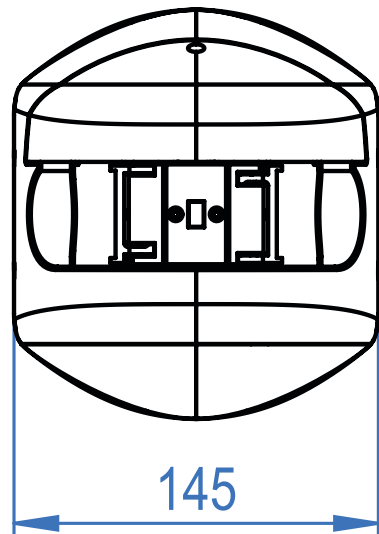
Technical Data

Weight		1.35 Kg
Payload		2 kg
Orientation		2 (1 straight, 1 perpendicular to P-Rob 2)
Dimension		Straight: 160x145x135 mm Perpendicular: 190x145x135 mm
Performance	Opening range	80°
	Max. velocity	60°/s
	Max. acceleration	1000°/s ²
	Gripping torque	3 Nm
Middle sensor		1x InfraRed sensor (range 40 – 500 mm)
Skeleton and covers		Aluminum, polyamide stiff cover, Polyether foam and rubber, oil resistant and antimicrobial vinyl soft cover
Temperature		0-50°C
Noise		Approx. 60 dB using a typical program
IP classification		IP40 (IP54 with protection cover on request)
Power input		DC input 48V, 1A (24V, 36V supply optional)
Power consumption		Approx. 10W using a typical program
Hardware interface	I/O	2x power outputs 24VDC 300mA 4x digital inputs (5.1mA each), 4 digital outputs (300mA each) 2x current loop inputs/outputs, 4-20mA (analog)
	User lines	3x user lines and 1 ground line feed through P-Grip 2 and P-Rob 2 0-48V, 1A max
Fingers	Sensorless	Capable of grasping capability objects up to 130mm diameter
	Sensored	4x InfraRed sensed fingers for detection Capable of grasping capability objects up to 130mm diameter

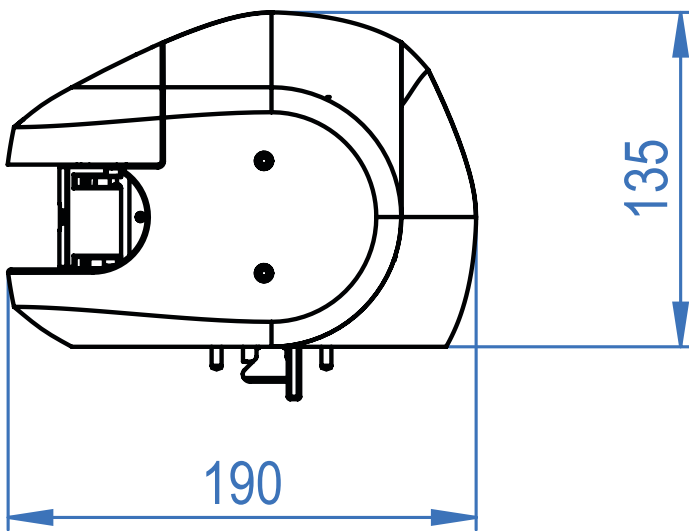
Product overview



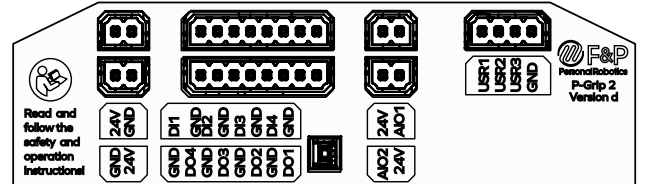
Side view (straight mounting)



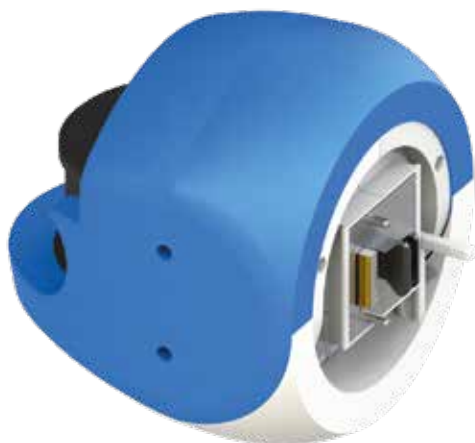
Front view



Side view (perpendicular mounting)



Connecting panel



Finger options

Available on www.fp-robotics.com

Interactive Robots, Made Easy

F&P Robotics AG develops and produces innovative lightweight robot manipulators that cooperate with humans in their professional environment. The company focuses on reducing complexity in automation for the benefit of small, medium and large enterprises by providing all in one robotic solutions.

Investment with Short Payback Period

F&P robots and grippers are deployed in new as well as in existing working environments. Ready-to-use solutions including sensor-equipped end tools contribute to the reduction of costs in flexible automation. The payback period is typically 6 to 12 months. F&P robots are easy to redeploy or adapt to new tasks, so they fit to ever changing business requirements.

Intrinsically Safe and Context Aware

The design of the F&P robots is based on a consistent safety concept that enables direct human-robot collaboration. Soft materials, limited forces and collision detection allow operations without additional protection devices. As working environments are more and more dynamic, robots are equipped with Artificial Intelligence algorithms. They generate alternative solutions when the context changes or exceptions occur.

Swiss Company, International Talents



F&P Robotics AG is a Swiss company headquartered in Zurich, Switzerland and leverages very strong professional and academic worldwide networks. The company combines experienced high-tech and robotics professionals with a young team of international talents. Together we strive for continuous product innovations that create unique value for our customers.



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F&P Robotics AG is a member of



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