

UR5e

Technical Specification

The UR5e brings ultimate flexibility to medium-duty applications with a payload of up to 5 kg and a reach of 850 mm.

Today, more than 75,000 UR collaborative industrial robots have been delivered to customers across industries and around the world. UR5e is one of four e-Series robots, each with a different payload and reach combination. e-Series brings incredible flexibility and unparalleled ease of use to your application.

Issued November 2021

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UR5e

Specifications

Payload	5 kg (11 lbs)
Reach	850 mm (33.1 in)
Payload Protection	IP54 (water resistant)
Programming	12 teach functions with Polaris graphical user interface
Power consumption (average)	
Maximum power	270 W
Maximum operating setting	200 W
Operating temperature range	0-40°C (32-104°F)
Safety features	17 configurable safety functions
Is compliant with	EN ISO 10261-1, PL/Category 2 and EN ISO 10261-1

Performance

	Reach 0-500	Reach 0-850
Speed	0.4 m/s	0.3 m/s
Position	0.1 mm	0.2 mm
Accuracy	0.1 mm	0.2 mm

Movement

Typical TCP speed	1 m/s	
Free repeatability per 100 cycles	± 0.05 mm	
Axis movement	Working range	Maximum speed
Base	± 360°	± 180°/s
Shoulder	± 360°	± 180°/s
Elbow	± 360°	± 180°/s
Wrist 1	± 360°	± 180°/s
Wrist 2	± 360°	± 180°/s
Wrist 3	± 360°	± 180°/s

Features

IP specification	IP54 (water protection)
Electromagnetic interference classification	Class 1 or 2 (at low power consumption)
EMC classification	Class 1 or 2 (at 50 and 60 Hz, at max. speed and payload)
Tasks	1 (0.0001)
Robot mounting	Any orientation
LEDs	
Signal in	1
Signal led	1
Alarm in	2
Force/couple supply voltage	0-24 V
Force/couple supply	1.3 A (max) / 1 A (single pin)

Physical

Footprint	210 mm
Material	Aluminum, plastic, steel
Tool flange	EN ISO 9409-1-04-A040
Connector type	68, 69, 60, 61-pin
Cable length (total max)	6 m (20 ft)
	12 m (40 ft) for an optional high-flex option available
Weight including cable	12.6 kg (27.8 lbs)
Is suitable	± 0.5% RH (non-condensing)

Contact

Universal Robots A/S
 Ringvej 25
 DK-8260 Ålbæk
 Denmark
 +45 89 92 99 99
sales@universalrobots.com
www.universalrobots.com

3-Position Enabling Teach Pendant

Features

IP specification	IP54
Included in certification	EN ISO 10261-1 EN ISO 10261-1
Is suitable	± 0.5% RH (non-condensing)
Display resolution	1280 x 800 pixels
Physical	
Material	Plastic
Teach Pendant size (H x W x D)	200 mm x 220 mm x 30 mm 7.9 in x 8.7 in x 1.2 in
Weight	1.8 kg (4.0 lbs)
Tool flange	Including 1 m of teach pendant cable: 4.1 kg (9.0 lbs)

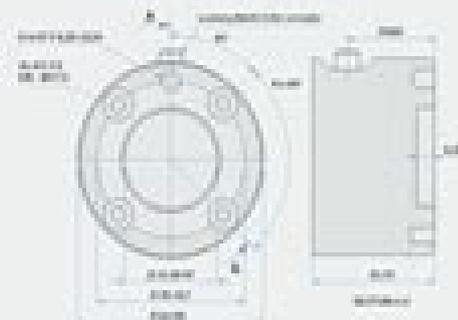


Control Box

Features

IP specification	IP54
EN 10484-1 class maximum	4
Operating temperature range¹	0-40°C (32-104°F)
Is suitable	± 0.5% RH (non-condensing)
LEDs	
Signal in	16
Signal led	16
Alarm in	2
Alarm led	2
Diagnostic signal inputs	4
USB-A ports	2 (x 2)
Connectivity	100 m Control Frequency Module (optional) (programmable)
	10-Port 1 G, USB 3.0 Ethernet
	USB 3.0, USB 2.0, RS485
	RS-485/RS-422 (optional)
	open source
	ControlPanel (optional)
	UR-IO-Link (optional)
	motion handling feature interface (MHI, optional)
Power Source	100-240 VAC, 50/60 Hz

Tool flange for UR5e, UR10e, UR10s and UR20e

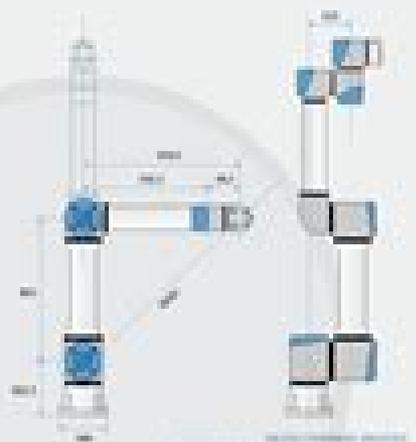
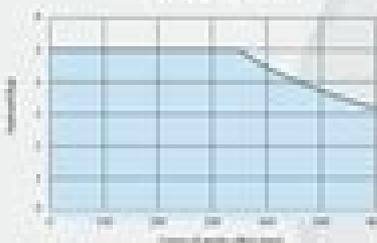


Physical

Control Box Size (H x W x D)	200 mm x 440 mm x 220 mm 7.9 in x 17.3 in x 8.7 in
Weight	1.2 kg (2.6 lbs)
Material	Plastic-coated steel

¹The control box is not certified to IP54 standard.

UR5e payload curve



Technical Drawing resource 5e

Lauren Gardner



Technical Drawing resource 5e:

The Project Resource Manual (PRM) : CSI Manual of Practice, 5th Edition The Construction Specifications Institute, 2004-09-16 The authoritative resource for the organization preparation use and interpretation of construction documents encompassing the entire life cycle of a facility This new edition considers the need for interdependent processes of design construction and facility use The Fifth Edition expands the scope of the manual to meet the requirements of all participants involved in a construction project in a stage by stage progression including owners Architects design builders contractors construction managers product representatives financial institutions regulatory authorities attorneys and facility managers It promotes a team model for successful implementation Mechanical Drawing for Plumbers Robert Macy Starbuck, 1910 **Planner's Guide to Facilities Layout and Design for the Defense Communications System Physical Plant**, 1985 **The Reference Catalogue of Current Literature**, 1957 **Mechanisms and Mechanical Devices Sourcebook, 5th Edition** Neil Sclater, 2011-07-22 THOUSANDS OF DRAWINGS AND DESCRIPTIONS COVER INNOVATIONS IN MECHANICAL ENGINEERING Fully revised throughout this abundantly illustrated reference describes proven mechanisms and mechanical devices Each illustration represents a design concept that can easily be recycled for use in new or modified mechanical electromechanical or mechatronic products Tutorials on the basics of mechanisms and motion control systems introduce you to those subjects or act as a refresher Mechanisms and Mechanical Devices Sourcebook Fifth Edition contains new chapters on mechanisms for converting renewable energy into electrical power 3D digital prototyping and simulation and progress in MEMS and nanotechnology based on carbon nanotubes A new chapter on stationary and mobile robots describes their roles in industry science national defense and medicine The latest advances in rapid prototyping are also discussed This practical guide will get you up to speed on many classical mechanical devices as well as the hot new topics in mechanical engineering COMPREHENSIVE INDEX MAKES IT EASY TO FIND SUBJECTS OF INTEREST GLOSSARIES OF TERMS ON CAMS GEARS MECHANICS MOTION CONTROL ROBOTICS WIND TURBINES PUMPS AND 3D DIGITAL PROTOTYPING AND SIMULATION COVERAGE OF MOBILE ROBOTS THAT EXPLORE MARS PERFORM MILITARY DUTIES AND PUBLIC SERVICE HANDLE AUTOMATED DELIVERY CONDUCT SURVEILLANCE FROM THE AIR AND SEARCH UNDER THE SEA DETAILS ON THE MECHANISMS IN RENEWABLE ENERGY AND WIND TURBINE AND SOLAR THERMAL FARMS AND WAVE MOTION POWER PLANTS Mechanisms and Mechanical Devices Sourcebook Fifth Edition covers Basics of mechanisms Motion control systems New stationary and mobile robots New mechanisms for renewable power generation Drives and mechanisms with linkages gears cams gears and ratchets Clutches and brakes Latching fastening and clamping devices and mechanisms Chains belts springs and screws Shaft couplings and connections Motion specific devices Packaging conveying handling and safety mechanisms and machines Torque speed tension and limit control systems Instruments and controls pneumatic hydraulic electric and electronic New 3D

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web 1 nfpa 13 2016 edition section 10 10 2 1 1 underground piping from the water supply to the system riser and lead in connections to the system riser shall be completely flushed before connection is made to downstream fire protection system

24 10 10 2 1 1

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web s length of pipe tested in feet 148 000 d nominal diameter of the pipe in inches p average test pressure during the hydrostatic test in pounds per square inch gauge new underground piping flushed according to standard by company if no explain how flushing flow was obtained public water tank or reservoir lead ins flushed according to

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