

## 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 for 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

<b>Payload</b>	5 kg (11 lbs)
<b>Reach</b>	850 mm (33.1 in)
<b>Payload Protection</b>	IP54 (water resistant)
<b>Programming</b>	12 teach functions with Flexible graphical user interface
<b>Power consumption (average)</b>	
Maximum power	270 W
Maximum operating setting	200 W
Operating temperature range	0-40°C (32-104°F)
<b>Safety features</b>	17 configurable safety functions
Is compliant with	EN ISO 10245-1, PL/Category 2 and EN ISO 10241-1

### Performance

	Reach 0-200	Reach 0-850
<b>Speed</b>	0.4 m/s	0.1 m/s
<b>Position</b>	0.1°	0.2°
<b>Accuracy</b>	0.1°	0.2°

### Movement

<b>Typical TCP speed</b>	1 m/s	
<b>Free repeatability per 100,000</b>	± 0.03 mm	
<b>Axis movement</b>	<b>Working range</b>	<b>Maximum speed</b>
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

<b>IP specification</b>	IP54 (water protection)
<b>Electromagnetic compatibility</b>	Class 1 or 2 (at max. power/output)
<b>EN 10844-1 certification</b>	Class 1 or 2 (at max. 10% of max. speed and output)
<b>IP at installation by vehicle manufacturer</b>	Class 1 or 2 (at max. 10% of max. speed and output)
<b>Tasks</b>	1-80 (RPA)
<b>Robot mounting</b>	Any orientation
<b>LEDs</b>	
Signal in	1
Signal led	1
Alarm in	2
Signal power supply voltage	24 VDC
Signal power supply	1.5 A (Signal) / 1 A (Single pin)

### Physical

<b>Footprint</b>	210 mm
<b>Material</b>	Aluminum, plastic, steel
<b>Tool flange</b>	EN ISO 9409-1-04-040
<b>Connector type</b>	68, 100, 120-pin
<b>Cable length (total max)</b>	5 m (16.4 ft)
	12 m (39.4 ft) for high-flex option available
<b>Weight including cable</b>	10.5 kg (23.1 lbs)
<b>Is suitable</b>	± 0.5% RH (non-condensing)

## Contact

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[www.universalrobots.com](http://www.universalrobots.com)

## 3-Position Enabling Teach Pendant

### Features

<b>IP specification</b>	IP54
<b>Included in certification</b>	EN ISO 10241-1 EN ISO 10245-1
<b>Is suitable</b>	± 0.5% RH (non-condensing)
<b>Display resolution</b>	1280 x 800 pixels
<b>Physical</b>	
<b>Material</b>	Plastic
<b>Teach Pendant size (H x W x D)</b>	200 mm x 220 mm x 30 mm 7.87 in x 8.66 in x 1.18 in
<b>Weight</b>	1.8 kg (3.96 lbs) including 1 m of teach pendant cable
<b>Tool flange</b>	4-1/2" (111.8 mm)

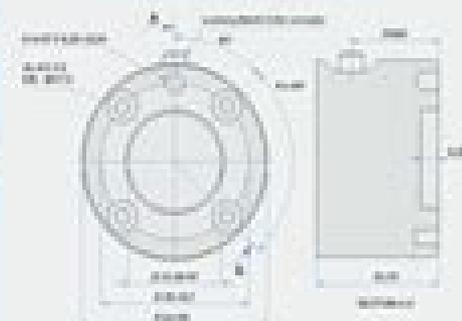


## Control Box

### Features

<b>IP specification</b>	IP54
<b>EN 10844-1 class maximum</b>	4
<b>Operating temperature range<sup>1</sup></b>	0-40°C (32-104°F)
<b>Is suitable</b>	± 0.5% RH (non-condensing)
<b>LEDs</b>	
Signal in	16
Signal led	16
Alarm in	2
Alarm led	2
Diagnostic Signal Input	4
USB-A Ports	2 (x 1)
<b>Connectivity</b>	100 m Control Frequency Module (optional) (programmable)
	WiFi (2.4 GHz, 802.11n)
	Bluetooth®
	RS-485 (2-wire, optional)
	open source
	DeviceNet® (optional)
	Profinet Ix (optional)
	Industrial Ethernet (optional)
	Modbus (RTU, optional)
<b>Power Source</b>	100-240 VAC, 50/60 Hz

### Tool flange for UR10e, UR10s, UR10L and UR10Ls

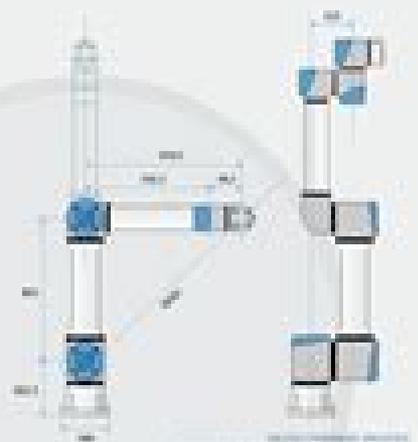
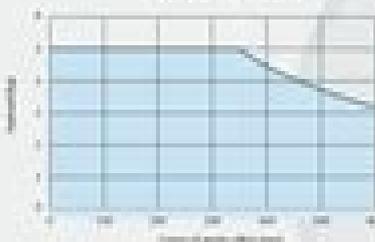


### Physical

<b>Control Box Size (H x W x D)</b>	200 mm x 440 mm x 220 mm 7.87 in x 17.32 in x 8.66 in
<b>Weight</b>	1.2 kg (2.65 lbs)
<b>Material</b>	Plastic-coated steel

<sup>1</sup>The control box is not certified to IP54 standard.

### UR5e payload curve



# Technical Drawing resource 5e

**L Manion**



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