

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 Flexible 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	0.6 m/s	0.5 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 100,000	± 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 resistant)
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 (0-180°)
Base mounting	Any orientation
LEDs	
Signal in	1
Signal led	1
Alarm in	2
Force/couple supply voltage	0-24 V
Force/couple supply	1.5 A (max) / 1 A (single pin)

Physical

Payload	5 kg (11 lbs)
Material	Aluminum, plastic, steel
Foot print	260 mm (10.24 in) x 260 mm
Connector type	68, 60, 60, 60-pin
Cable length (total max)	6 m (20 ft)
	12 m (40 ft) for an optional high-flex option available
Height including cable	55 cm (21.7 in)
Weight	± 8% (at max. configuration)

Contact

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3-Position Enabling Teach Pendant

Features

IP specification	IP54
Included in certification	EN ISO 10261-1 EN ISO 10261-2
Material	± 10% (at max. configuration)
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 (3.9 lbs)
Cable length	Including 1 m of teach pendant cable: 4.1 m (13.5 ft)

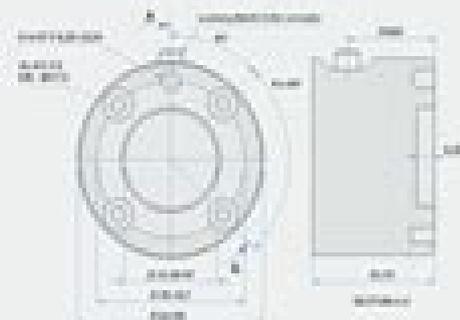


Control Box

Features

IP specification	IP54
EN 10844-1 class maximum	4
Operating temperature range¹	0-40°C (32-104°F)
Material	± 10% (at max. configuration)
LEDs	
Signal in	16
Signal led	16
Alarm in	2
Alarm led	2
Diagnostic Signal input	4
USB-A ports	2 (x 1)
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, analog (optional)
	open source
	ControlPanel (optional)
	UR-IO-Link (optional)
	motion handling feature (software (MHA), optional)
Power Source	100-240 VAC, 50/60 Hz

Teach Range for UR5e, UR10e, UR10s and UR20e

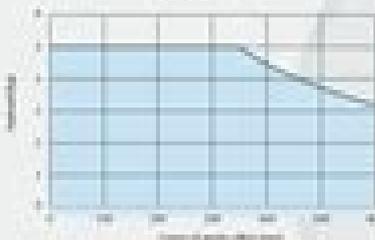


Physical

Control Box 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 (3.9 lbs)
Material	Plastic (outer shell)

¹The control box is not certified to IP54 standard.

UR5e payload curve



Technical Drawing resource 5e

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