

## 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 2023

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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 10261-1, PL/Category 2 and EN ISO 10261-1          |

### 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 cycles</b> | ± 0.05 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 interference classification</b> | Class 1 or 2 (at low power consumption)                   |
| <b>EMC classification</b>                          | Class 1 or 2 (at 50 and 60 Hz, at max. speed and payload) |
| <b>Tasks</b>                                       | 1-80 (UR+) / 40 (UR)                                      |
| <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 (24VDC) / 1 A (Single pin)                          |

### Physical

|                                 |   |
|---------------------------------|---|
| <b>Footprint</b>                | 210 mm  |
| <b>Material</b>                 | Aluminum, painted steel                                 |
| <b>Tool flange</b>              | EN ISO 9489-1 (50-60mm)                                 |
| <b>Connector type</b>           | 68, 60, 60, 60mm  |
| <b>Cable length (total max)</b> | 6 m (20 ft)   |
|                                 | 12 m (40 ft) for an optional high-flex option available |
| <b>Weight including cable</b>   | 12.6 kg (28.1 lbs)                                      |
| <b>Is suitable</b>              | ± 0.5% RM (non-conditioning)                            |

## Contact

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## 3-Position Enabling Teach Pendant

### Features

|                                       |   |
|---------------------------------------|---|
| <b>IP specification</b>               | IP54  |
| <b>Included in certification</b>      | EN ISO 10261-1<br>EN ISO 10261-1                          |
| <b>Is suitable</b>                    | ± 0.5% RM (non-conditioning)                              |
| <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<br>7.9 in x 8.7 in x 1.2 in       |
| <b>Weight</b>                         | 1.8 kg (3.9 lbs)  |
| <b>Tool flange</b>                    | Including 1 m of teach pendant cable:<br>4.1 kg (9.1 lbs) |

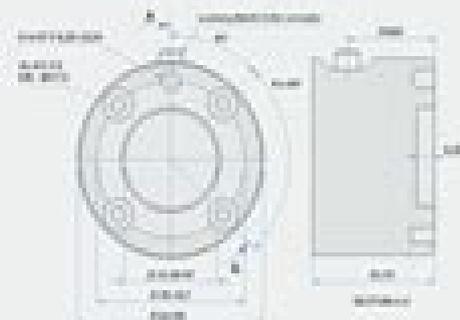


## Control Box

### Features

|                                     |  |
|-------------------------------------|--|
| <b>IP specification</b>             | IP54   |
| <b>EN 10844-1 class maximum</b>     | 4  |
| <b>Operating temperature range†</b> | 0-40°C (32-104°F)  |
| <b>Is suitable</b>                  | ± 0.5% RM (non-conditioning)                             |
| <b>LEDs</b>                         |  |
| Signal in                           | 16   |
| Signal led                          | 16   |
| Alarm in                            | 2  |
| Alarm led                           | 2  |
| Diagnostic Signal Input             | 4  |
| UR Power Supply                     | 24 V DC  |
| <b>Communication</b>                | 100 m Control Frequency Module (optional) (programmable) |
|                                     | 10-Port 1 G, USB 3.0 Ethernet                            |
|                                     | USB 2.0, USB 3.0, RS485†                                 |
|                                     | RS-485 (2-wire optional)                                 |
|                                     | open source  |
|                                     | DeviceNet† (optional)                                    |
|                                     | Profinet Ix4 (optional)                                  |
|                                     | Industrial Ethernet (optional)                           |
|                                     | Modbus (RTU, optional)                                   |
| <b>Power Source</b>                 | 100-240 VAC, 50/60 Hz                                    |

### Tool flange for UR5e, UR10e, UR10s and UR20e

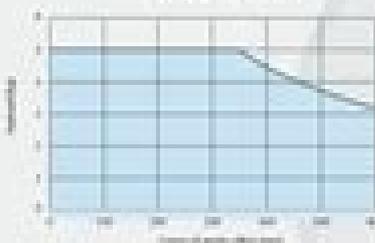


### Physical

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

† The control box is not certified to IP54 standard.

### UR5e payload curve



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