

21. Certificates

TÜV Rheinland

Page 1

Certificate

Certificate no.

T 72404326 0001

License Holder:

Universal Robots A/S
Energivej 25
5260 Odense S
Denmark

Manufacturing Plant:

Universal Robots A/S
Energivej 25
5260 Odense S
Denmark

Report Number: 31875333 004

Client Reference: Roberta Nelson Shea

Certification acc. to: EN ISO 10218-1:2011
EN ISO 13849-1:2015

Product Information

Certified Product: Industrial Robot

Model Designation: UR3, UR5, UR10, UR3e, UR5e, UR10e, UR16e, UR20, UR30

Technical Data:	Rated Voltage:	AC 100-200V, 50/60Hz or
		AC 200-240V, 50/60Hz
	Rated Current:	15A or 8A
	Protection Class:	I

Remarks: Solely assessed per standards listed above.
The robot is only a component in a final robot application, collaborative or non-collaborative. The final application/installation must comply with EN ISO 10218-2 accordingly.

Replaces Certificate T72190266.

Appendix: 1, 1-68



Date of issue: 2024-02-27
(yr/mo/day)

TUV Rheinland of North America, Inc.
400 Beaver Brook Rd, Boxborough, MA 01719
Tel +1 (978) 266 9500, Fax +1 (978) 266-9992

www.tuv.com



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TÜV Rheinland
North America

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Certificate

Certificate no.

CA 72405127 0001

License Holder:

Universal Robots A/S
Energivej 25
5260 Odense S
Denmark

Manufacturing Plant:

Universal Robots A/S
Energivej 25
5260 Odense S
Denmark

Report Number: 31875333 006**Client Reference:** Roberta Nelson Shea**Certification acc. to:** CAN/CSA-Z434-14 + GI1 (R2019)**Product Information****Certified Product:** Industrial Robot**Model Designation:** UR3e, UR5e, UR10e, UR16e, UR20, UR30

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China
RoHS

Management Methods for Controlling Pollution
by Electronic Information Products
Product Declaration Table For Toxic or Hazardous Substances

表1 有毒有害物质或元素名称及含量标识格式



Product/Part Name 产品/部件名称	Toxic and Hazardous Substances and Elements 有毒有害物质或元素					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价 Hexavalent Chromium (Cr+6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
UR Robots 机器人：基本系统 UR3 / UR5 / UR10 / UR3e / UR5e / UR10e UR16e / UR20 / UR30	X	O	X	O	X	X

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求以下。

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006规定的限量要求。
(企业可在此处·根据实际情况对上表中打“X”的技术原因进行进一步说明。)

Items below are wear-out items and therefore can have useful lives less than environmental use period:

下列项目是损耗品,因而它们的有用环境寿命可能短于基本系统和可选项目的使用时间:

Drives, Gaskets, Probes, Filters, Pins, Cables, Stiffener, Interfaces

电子驱动器, 垫圈, 探针, 过滤器, 别针, 缆绳, 加强筋, 接口

Refer to product manual for detailed conditions of use.

详细使用情况请阅读产品手册。

Universal Robots encourages that all Electronic Information Products be recycled but does not assume responsibility or liability.

Universal Robots 鼓励回收再循环利用所有的电子信息产品,但 Universal Robots 不负任何责任或义务

To the maximum extent permitted by law, Customer shall be solely responsible for complying with, and shall otherwise assume all liabilities that may be imposed in connection with, any legal requirements adopted by any governmental authority related to the Management Methods for Controlling Pollution by Electronic Information Products (Ministry of Information Industry Order #39) of the Peoples Republic of China otherwise encouraging the recycle and use of electronic information products. Customer shall defend, indemnify and hold Universal Robots harmless from any damage, claim or liability relating thereto. At the time Customer desires to dispose of the Products, Customer shall refer to and comply with the specific waste management instructions and options set forth at www.universal-robots.com/about-universal-robots/social-responsibility and www.teradyne.com/company/corporate-social-responsibility, as the same may be amended by Teradyne or Universal Robots.

KC Safety



자율안전확인 신고증명서

신청인	사업장명	Universal Robots A/S	사업장관리번호	2016E110079
	사업자등록번호	016E110079	대표자 성명	Klaus Vestergaard
	소재지	Energivej 25, 5260 Odense S, Denmark		
자율안전인증대상 기계·기구명				
			산업용로봇	
형식(규격)	UR5e	용량(등급)	6 axis	
자율안전확인번호	18-AB2EQ-01603			
제조사	Universal Robots A/S			
소재지	Energivej 25, 5260 Odense S, Denmark			

「산업안전보건법」 제35조제1항 및 같은 법 시행규칙 제61조제3항에 따라
자율안전확인 신고증명서를 발급합니다.


2018년 11월 06일

한국산업안전보건공단 서울지역본부장



KC Registration


6C8D-81FA-93C2-784A

방송통신기자재등의 적합등록 필증 <i>Registration of Broadcasting and Communication Equipments</i>	
상호 또는 성명 <i>Trade Name or Registrant</i>	Universal Robots A/S
기자재명칭(제품명칭) <i>Equipment Name</i>	UR e-Series robot
기본모델명 <i>Basic Model Number</i>	UR5e
파생모델명 <i>Series Model Number</i>	
등록번호 <i>Registration No.</i>	R-R-URK-UR5e
제조사/제조(조립)국가 <i>Manufacturer/Country of Origin</i>	Universal Robots A/S / 덴마크
등록연월일 <i>Date of Registration</i>	2018-10-23
기타 <i>Others</i>	
<p>위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.</p> <p style="text-align: right;">2018년(Year) 10월(Month) 23일(Day)</p> <p style="text-align: center;">국립전파연구원장  <i>Director General of National Radio Research Agency</i></p> <p style="text-align: center; color: red;">※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다. 위반시 과태료 처분 및 등록이 취소될 수 있습니다.</p>	

Environment

Climatic and mechanical assessment



Client Universal Robots A/S Energivej 25 5260 Odense S Denmark	Force Technology project no. 117-32120
Product identification UR 3 robot arms UR 3 control boxes with attached Teach Pendants. UR 5 robot arms UR5 control boxes with attached Teach Pendants. UR10 robot arms: UR10 control boxes with attached Teach Pendants. See reports for details.	
Force Technology report(s) DELTA project no. 117-28266, DANAK-19/18069 DELTA project no. 117-28086, DANAK-19/17068	
Other document(s)	
Conclusion The three robot arms UR3, UR5 and UR10 including their control boxes and Teach Pendants have been tested according to the below listed standards. The test results are given in the Force Technology reports listed above. The tests were carried out as specified and the test criteria for environmental tests were fulfilled in general terms with only a few minor issues (see test reports for details). IEC 60068-2-1, Test Ae; -5 °C, 16 h IEC 60068-2-2, Test Be; +35°C, 16h IEC 60068-2-2, Test Be; +50°C, 16 h IEC 60068-2-64, Test Fh; 5 – 10 Hz: +12 dB/octave, 10-50 Hz 0.00042 g ² /Hz, 50 – 100 Hz: -12 dB/octave, 1,66 grms, 3 x 1½ h IEC 60068-2-27, Test Ea, Shock; 11 g, 11 ms, 3 x 18 shocks	
Date Hørsholm, 25 August 2017	Assessor  Andreas Wendelboe Højsgaard M.Sc.Eng.

DELTA – a part of FORCE Technology - Venlighedsvej 4 - 2970 Hørsholm - Denmark - Tel. +45 72 19 40 00 - Fax +45 72 19 40 01 - www.delta.dk

Software Name: PolyScope 5
Software Version: 5.19
Document Version: 10.7.278