





Fraunhofer TESTED® DEVICE KUKA Deutschland GmbH LBR iisy 15 R930 CR Report No. KU 2303-1404

Statement of Qualification

Single product Electrical Resistance

Statement of Qualification • Single product

Customer	KUKA Deutschland GmbH Zugspitzstrasse 140 86165 Augsburg Germany	Test result / Classification	The robot LBR iisy 15 R930 CR was examined for its electrical resistance at representative points in accordance with IEC 61340-2-3. The resistance to groundable point (R_{gp}) values obtained from the test piece lies within the limits of the limiting value of 1 x 10 ⁹ Ω required by IEC 61340-5-1 for ESD protective elements.				
Component tested Category:	Automation Components		Measuring point	Operating voltage [V]	R _{gp 1} ¹⁾ [Ω]	R _{gp 2} ¹⁾ [Ω]	Compliance with limit va- lue as per IEC 61340-5-1
Subcategory: Product name:	Robotics LBR iisy 15 R930 CR		Contact point 1	10	< 1 x 10 ³	< 1 x 10 ³	fulfilled
rioduct name.	(manufacturing date: 9/2024; color: white and orange; weight: 43.2 kg; serial number: 4561012)		Contact point 2	10	< 1 x 10 ³	< 1 x 10 ³	fulfilled

.... on the robot base

Electrical resistance measurements at re resistance (R _{p-p}))	epresentative points (resistance to groundable point ($R_{_{gp}}$) and point-to-Point				
Standards/Guidelines:	IEC 61340-2-3, -5-1 The norms stated generally refer to the version valid at the time of the tests.				
Test devices:	Data capture:				
	– Type:Metriso 3000				
	– Company:Wolfgang Warmbier GmbH & Co. KG				
Test environment parameters:	Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1				
	Airflow velocity:0.45 m/s				
	Airflow pattern: vertical laminar flow				
	• Temperature:				
	• Relative humidity:				
Test procedure parameters:	Insulating support:				
	– Model:				
	– Material:Polytetrafluorethylene				
	Contact points:metallic flange for mountable tools				

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

KU 2303-1404 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany



Report No. current document



Groundable points:.....

¹⁾ R_{ap}: Resistance to groundable point

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	product in
Stuttgart, April 14, 2025	and is valid
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