CERTIFICATE NO. FS/71/220/26/2306

ZERTIFIKAT NR.

LICENCE HOLDER &
GENEHMIGUNGSINHABER

Suzhou Inovance Technology Co., Ltd.
No.52, Tian E Dang Road, Wuzhong District, 215104, Suzhou City, Jiangsu Province, P.R. China

MANUFACTURER
HERSTELLER

Suzhou Inovance Technology Co., Ltd.
No.52, Tian E Dang Road, Wuzhong District, 215104, Suzhou City, Jiangsu Province, P.R. China

Project No /-ID
PROJEKT-NR/-ID

X1YA-AU08

LICENSED TEST MARK
GENEHMIGTES PRÜFZEICHEN

FUNKTIONALE SICHERHEIT GEPRÜFT
FUNCTIONAL SAFETY APPROVED

Certification Report No.
ZERTIFIKATSBERICHT NR.

X1YA0003, X1YA0004
are an integral part of this certificate.
sind ein integraler Bestandteil dieses Zertifikats.

Certified product(s)
Zertifizierte(s) Produkt(e)

Industrial Robot
(Model detail information refers to Page 4-Page 9)

Tested according to
Geprüft nach

EN ISO 13849-1:2023/ EN ISO 13849-2:2012

Technical Data and Parameter
Technische Daten und Parameter

The product fulfils the requirements of functional safety acc. to above standards in accordance with PL d with Cat. 3.

Specific Requirements
Spezifische Anforderungen

This certificate confirms the achievement of the requirements based on the following proof:

- Proof that processes and methods are established at the manufacturer guaranteeing that unexceptionable processes in terms of design, production, validation, and quality management comply with the safety-related standards (refer to reports X1YA0003, X1YA0004)

Surveillance
Überwachung

Certificate is valid for the specified version only, no surveillance necessary.

The certificate is based on voluntary tests. The compliance of the certified product against the requirements of above listed standards was evaluated. Any changes to the design, components or processing may require repetition of some parts of the certification in order to retain the certification. All applicable requirements of the testing and certification regulations of SGS-TÜV Saar GmbH have to be complied, see www.sgs-tuv-saar.com/tcr-muc and www.sgs-tuv-saar.com/gtc-muc.

Certification Body for Functional Safety and Cybersecurity
SGS-TÜV Saar GmbH
Zertifizierungsstelle für Funktionale Sicherheit und Cyber-Sicherheit

Reference to SGS Certification Database

Certificate is valid until
Zertifikat ist gültig bis

no time limit

or unless it is cancelled.
oder bis es gekündigt wird

Puchheim, June 12, 2026

i.V. Robert Sammer

SGS-TÜV Saar GmbH, Benzstr. 28,
82178 Puchheim, Germany / *Deutschland*

Website: www.sgs-tuv-saar.com
E-Mail: fs@sgs.com

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MANUFACTURING PLANT
FERTIGUNGSSTÄTTE

Suzhou Inovance Technology Co., Ltd.
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Summary of Assessment Result in Technical Report:

General Technical Safety Parameters	Assessment Result
Performance Level	PL d
Category	Category 3
Diagnostic Coverage	DC ≥ 90%
Common Cause Failure	CCF = 75

Detail technical safety parameters for each safety functions are listed in the following table:

6_axis X1YA0004

SF	Safety Functions Name	$MTTF_D$ (years)	PFH (1/h)	Response Time	Safe State
SF1	Emergency Stop	54	1.19×10^{-7}	20ms	Stop category 0
SF2	Additional Emergency stop	102	4.29×10^{-8}	20ms	Stop category 0
SF3	Emergency Stop Switch Status Output	100	4.29×10^{-8}	20ms	RO output open
SF4	Protective Stop	102	4.29×10^{-8}	20ms	Stop category 0
SF5	External Emergency Stop (Note: External device trigger to input of functional safety expansion card)	92	4.94×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF6	External Protective Stop (Note: External device trigger to input of functional safety expansion card)	92	4.94×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF7	Emergency Stop Status Output	87	5.79×10^{-8}	10ms	DO output low level
SF8	Additional Emergency Stop Status Output	364	4.29×10^{-8}	10ms	DO output low level
SF9	System Emergency Stop Status Output	364	4.29×10^{-8}	10ms	DO output low level
SF10	Robot Moving Status Output	58	1.03×10^{-7}	10ms	DO output low level
SF11	Robot Stopped Status Output	58	1.03×10^{-7}	10ms	DO output low level
SF12	Safety Status Output	711	4.29×10^{-8}	10ms	DO output low level
SF13	Safety Manual Mode	40	1.78×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF14	Joint Position Monitor	83	5.79×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF15	Joint Speed Monitor	83	5.79×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF16	TCP Position Monitor	40	1.78×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF17	TCP Speed Monitor	40	1.78×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category1
SF18	3-Position Enabling Function	134	4.29×10^{-8}	500ms	Stop category 1

Note: SF2 Additional Emergency stop, SF3 Emergency Stop Switch Status Output and SF8 Additional Emergency Stop Status Output only supported in Cabinet Model with IRCB501-6KD-EM-INT and IRCB501-6ND-EM-INT.

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Detail technical safety parameters for each safety functions are listed in the following table:

4_axis X1YA0003

SF	Safety Functions Name	$MTTF_D$ (years)	PFH (1/h)	Response Time	Safe State
SF1	Emergency Stop	64	8.48×10^{-8}	20ms	Stop category 0
SF2	Protective Stop	149	4.29×10^{-8}	20ms	Stop category 0
SF3	External Emergency Stop (Note: External device trigger to input of functional safety expansion card)	127	4.29×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF4	External Protective Stop (Note: External device trigger to input of functional safety expansion card)	127	4.29×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF5	Emergency Stop Status Output	87	5.79×10^{-7}	10ms	DO output low level
SF6	System Emergency Stop Status Output	364	4.29×10^{-8}	10ms	DO output low level
SF7	Robot Moving Status Output	84	5.79×10^{-8}	10ms	DO output low level
SF8	Robot Stopped Status Output	84	5.79×10^{-8}	10ms	DO output low level
SF9	Safety Status Output	711	4.29×10^{-8}	10ms	DO output low level
SF10	Safety Manual Mode	59	1.03×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF11	Joint Position Monitor	109	4.29×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF12	Joint Speed Monitor	109	4.29×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF13	TCP Position Monitor	59	1.03×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF14	TCP Speed Monitor	59	1.03×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category1
SF15	3-Position Enabling Function	149	4.29×10^{-8}	500ms	Stop category 1

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Model supplement description:

All models listed in below table are all certified safety-relevant products, the customer may add an additional suffix (see Note) to these models. This suffix can serve as an extra customer identification and does not change the certified safety-relevant properties and designation of the models (refer to below).

6_axis X1YA0004

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-R4-acd-fhi-INT	IRB-R4-acd-fhi-INT	IRCB501-6ND-INT IRCB501-6ND-EM-INT IRCB501-6KD-EM -INT IRCB501-6KD-INT IRCB501-6LD-INT	IR-R10-acd-fhi-INT	IRB-R10-acd-fhi-INT	IRCB501-6ND-INT IRCB501-6ND-EM-INT IRCB501-6KD-EM -INT IRCB501-6KD-INT IRCB501-6FD-INT
IR-R4H-54cd-fhi-INT	IRB-R4H-54cd-fhi-INT		IR-R10H-acd-fhi-INT	IRB-R10H-acd-fhi-INT	
IR-R7-acd-fhi-INT	IRB-R7-acd-fhi-INT		IR-R11-90cd-fhi-INT	IRB-R11-90cd-fhi-INT	
IR-R7H-acd-fhi-INT	IRB-R7H-acd-fhi-INT		IR-CR10-acd-fhi-INT	IRB-CR10-acd-fhi-INT	
IR-CR4-acd-fhi-INT	IRB-CR4-acd-fhi-INT		IR-CR10H-acd-fhi-INT	IRB-CR10H-acd-fhi-INT	
IR-CR4H-54cd-fhi-INT	IRB-CR4H-54cd-fhi-INT		IR-CR11-90cd-fhi-INT	IRB-CR11-90cd-fhi-INT	
IR-CR7-acd-fhi-INT	IRB-CR7-acd-fhi-INT		IR-GR10-acd-fhi-INT	IRB-GR10-acd-fhi-INT	
IR-CR7H-acd-fhi-INT	IRB-CR7H-acd-fhi-INT		IR-GR10H-acd-fhi-INT	IRB-GR10H-acd-fhi-INT	
IR-GR4-acd-fhi-INT	IRB-GR4-acd-fhi-INT		IR-GR11-90cd-fhi-INT	IRB-GR11-90cd-fhi-INT	
IR-GR4H-54cd-fhi-INT	IRB-GR4H-54cd-fhi-INT		IR-R4H-54S-X20-INT	IRB-R4H-54S-X20-INT	IRCB501-6LD-INT
IR-GR7-acd-fhi-INT	IRB-GR7-acd-fhi-INT		IR-R7H-90S-DP40-INT	IRB-R7H-90S-DP40-INT	IRCB501-6LD-INT
IR-GR7H-acd-fhi-INT	IRB-GR7H-acd-fhi-INT		IR-R7H-90S-DP20-INT	IRB-R7H-90S-DP20-INT	IRCB501-6LD-INT
IR-R7H-90S-X25-INT	IRB-R7H-90S-X25-INT	IRCB501-6LD-INT	IR-R7H-90S-CC25-INT	IRB-R7H-90S-CC25-INT	IRCB501-6LD-INT
HRTA300-R4H-54S5-INT	IRB-R4-54S-INT	IRCB501-6LD-INT	HRTA300-4-56TS5-INT	IRB-R4-56S-INT	IRCB501-6LD-INT
HRTA300-R7H-70S5-INT	IRB-R7H-70S-INT	IRCB501-6LD-INT	HRTA300-R7H-90S5-INT	IRB-R7H-90S-INT	IRCB501-6LD-INT
HRTA300-10-110TS5-INT	IRB-R10-110S-INT	IRCB501-6FD-INT	HRTA300-R10H-120S5-INT	IRB-R10H-120S-INT	IRCB501-6FD-INT
HRTA300-11-90TS5-INT	IRB-R11-90S-INT	IRCB501-6FD-INT	/	/	/

Table 1: Models of 6_axis Industrial Robot

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Model supplement description:

6_axis X1YA0004

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-R10-acd-fhi-INT	IRB-R10-acd-fhi-INT	IRCB501-6ND-INT IRCB501-6ND-EM-INT IRCB501-6KD-EM-INT IRCB501-6KD-INT	IR-R25-acd-fhi-INT	IRB-R25-acd-fhi-INT	IRCB501-6ND-INT IRCB501-6KD-EM-INT
IR-R12-140cd-fhi-INT	IRB-R12-140cd-fhi-INT		IR-R25H-acd-fhi-INT	IRB-R25H-acd-fhi-INT	IRCB501-6ND-INT IRCB501-6ND-EM -INT
IR-R13-140cd-fhi-INT	IRB-R13-140cd-fhi-INT		IR-R35-170cd-fhi-INT	IRB-R35-170cd-fhi-INT	
IR-R15-145cd-fhi-INT	IRB-R15-145cd-fhi-INT		IR-R35H-170cd-fhi-INT	IRB-R35H-170cd-fhi-INT	
IR-R15H-145cd-fhi-INT	IRB-R15H-145cd-fhi-INT		IR-CR25-acd-fhi-INT	IRB-CR25-acd-fhi-INT	
IR-R16-acd-fhi-INT	IRB-R16-acd-fhi-INT		IR-CR25H-acd-fhi-INT	IRB-CR25-acd-fhi-INT	
IR-R20-acd-fhi-INT	IRB-R20-acd-fhi-INT		IR-CR35-acd-fhi-INT	IRB-CR35-acd-fhi-INT	
IR-R20H-acd-fhi-INT	IRB-R20H-acd-fhi-INT		IR-CR35H-170cd-fhi-INT	IRB-CR35-170cd-fhi-INT	
IR-CR10-acd-fhi-INT	IRB-CR10-acd-fhi-INT		IR-GR25-acd-fhi-INT	IRB-GR25-acd-fhi-INT	
IR-CR12-140cd-fhi-INT	IRB-CR12-140cd-fhi-INT		IR-GR25H-acd-fhi-INT	IRB-GR25-acd-fhi-INT	
IR-CR13-140cd-fhi-INT	IRB-CR13-140cd-fhi-INT		IR-GR35-acd-fhi-INT	IRB-GR35-acd-fhi-INT	
IR-CR15-145cd-fhi-INT	IRB-CR15-145cd-fhi-INT		IR-GR35H-170cd-fhi-INT	IRB-GR35-170cd-fhi-INT	
IR-CR15H-145cd-fhi-INT	IRB-CR15H-145cd-fhi-INT		IR-GR12-140cd-fhi-INT	IRB-GR12-140cd-fhi-INT	IRCB501-6ND-INT IRCB501-6ND-EM-INT IRCB501-6KD-EM-INT IRCB501-6KD-INT
IR-CR16-acd-fhi-INT	IRB-CR16-acd-fhi-INT		IR-GR13-140cd-fhi-INT	IRB-GR13-140cd-fhi-INT	
IR-CR20-acd-fhi-INT	IRB-CR20-acd-fhi-INT		IR-GR15-145cd-fhi-INT	IRB-GR15-145cd-fhi-INT	
IR-CR20H-acd-fhi-INT	IRB-CR20H-acd-fhi-INT		IR-GR15H-145cd-fhi-INT	IRB-GR15H-145cd-fhi-INT	
IR-GR10-acd-fhi-INT	IRB-GR10-acd-fhi-INT		IR-GR16-acd-fhi-INT	IRB-GR16-acd-fhi-INT	
			IR-GR20-acd-fhi-INT	IRB-GR20-acd-fhi-INT	
			IR-GR20H-acd-fhi-INT	IRB-GR20H-acd-fhi-INT	
			IRGF-R10-acd-fhi-INT	IRGF-R10-acd-fhi-INT	IRCB501-6ND-INT
			IRGF-R20-acd-fhi-INT	IRGF-R20-acd-fhi-INT	IRCB501-6ND-INT
			HRTA300-10-140TS5-INT	IRB-R10-140S-INT	IRCB501-6ND-INT
			HRTA300-12-201TS7-INT	IRB-R12-201S-INT	IRCB501-6ND-INT

Table 2: Models of 6_axis Industrial Robot

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Model supplement description:

6_axis X1YA0004

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
HRTA300-16-210TS5-INT	IRB-R16-210S-INT	IRCB501-6ND-INT	HRTA300-25-178TS5-INT	IRB-R25-178S-INT	IRCB501-6ND-INT
HRTA300-30-185TS7-INT	IRB-R30-185S-INT	IRCB501-6ND-INT	HRTA300-35-185TS7-INT	IRB-R35-185S-INT	IRCB501-6ND-INT

Table 2: Models of 6_axis Industrial Robot

'a' stands for the Manipulator length; special: 54 stands for 54.5cm.

'c' should be the installation environment, C: clean, S: standard, P: high protection, F: die casting, WS: wall+ standard, WC: wall+ clean, WP: wall+ high protection, US: upside-down+standard, UP: upside-down+high protection, UC: upside-down + clean, HO: Hygienic Oil.

'd' should be 3-20 or blank for the towing cable information.

for Table 1 'f' stands for customization cabinets information which should be N/K/NEM/KEM/Blank; N: Indicates a cabinet:IRCB501-6ND-INT, NEM: Indicates a cabinet: IRCB501-6ND-EM-INT, K: Indicates a cabinet: IRCB501-6KD-INT, KEM: Indicates a cabinet: IRCB501-6KD-EM-INT. Blank: Indicates a cabinet: IRCB501-6LD-INT or Indicates a cabinet: IRCB501-6FD-INT.

for Table 2 'f' stands for customization cabinets information which should be K/NEM/KEM/Blank; Blank: Indicates a cabinet: IRCB501-6ND-INT. NEM: Indicates a cabinet: IRCB501-6ND-EM-INT.K: Indicates a cabinet: IRCB501-6KD-INT. KEM: Indicates a cabinet: IRCB501-6KD-EM-INT.

'h' stands for customization of Manipulator which should be 1SV/2SV/3SV/A/AD/HXW/Blank; 1SV: Built-in one solenoid valve, 2SV: Built-in two solenoid valve, 3SV: Built-in three solenoid valve, A: 90 Degree Bellow, AD: Using a low base, HXW: Including optional accessories, such as aviation plug, IO cable, network cable; Blank: No customization of manipulator.

'i' stands for information on usage scenarios which should be GJ/TR, JPN, or other region name codes specified by ISO 3166 standards/Blank; GJ: Silicone crystal industry, TR: Turkey, Blank: No Customized Information.

Additional:

Pendant Models: IRTP80-Le(*)-INT, IRTP81-Le(*)-INT, IR-TP200-Le(*)-INT; "*": bank/EMO

'e' should be 3-30 or blank for the towing cable information.

'(*)' may include a suffix "XXXXXXXXXX", Where "XXXXXXXXXX" can be blank or combination of any alphanumeric and/or symbols that represents customer identity.

Expansion Board Models: IRCB501-2ENID-BD, IRCB501-1600END-BD, IRCB501-0016ETND-BD, IRCB501-FS-01-BD, IRCB501-2PN-BD, IRCB501-6LDI3-BD, IR-EC-CCLINK.

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Model supplement description:

4_axis X1YA0003

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CS50-aZbcd-fhi-INT	IRB-CS50-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4ED-INT	HRTA100-50-120Z40TS5-INT	IRB-S50-120Z40S-INT	IRCB501-4ED-INT
			HRTA100-60-120Z40TS5-INT	IRB-S60-120Z40S-INT	IRCB501-4ED-INT
IR-GS50-aZbcd-fhi-INT	IRB-GS50-aZbcd-fhi-INT		HRTA100-GS60-120Z40TS5-INT	IRB-GS60-120Z40S-INT	IRCB501-4MD-INT
IR-S60-aZbcd-fhi-INT	IRB-S60-aZbcd-fhi-INT		IR-CS60-aZbcd-fhi-INT	IRB-CS60-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4ED-INT
IR-S50-aZbcd-fhi-INT	IRB-S50-aZbcd-fhi-INT		IR-GS60-aZbcd-fhi-INT	IRB-GS60-aZbcd-fhi-INT	

Table 3: Models of scara Industrial Robot

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CS16-aZbcd-fhi-INT	IRB-CS16-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4ED-INT	IR-S16-aZbcd-fhi-INT	IRB-S16-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4ED-INT
IR-GS16-aZbcd-fhi-INT	IRB-GS16-aZbcd-fhi-INT		IR-CS20-aZbcd-fhi-INT	IRB-CS20-aZbcd-fhi-INT	
IR-S20-aZbcd-fhi-INT	IRB-S20-aZbcd-fhi-INT		IR-GS20-aZbcd-fhi-INT	IRB-GS20-aZbcd-fhi-INT	
IR-S25-aZbcd-fhi-INT	IRB-S25-aZbcd-fhi-INT		IR-S30-aZbcd-fhi-INT	IRB-S30-aZbcd-fhi-INT	
IR-CS25-aZbcd-fhi-INT	IRB-CS25-aZbcd-fhi-INT		IR-GS30-aZbcd-fhi-INT	IRB-GS30-aZbcd-fhi-INT	
IR-CS30-aZbcd-fhi-INT	IRB-CS30-aZbcd-fhi-INT		IR-GS25-aZbcd-fhi-INT	IRB-GS25-aZbcd-fhi-INT	
IR-S35-aZbcd-fhi-INT	IRB-S35-aZbcd-fhi-INT		IR-GS35-aZbcd-fhi-INT	IRB-GS35-aZbcd-fhi-INT	
IR-CS35-aZbcd-fhi-INT	IRB-CS35-aZbcd-fhi-INT				
HRTA100-GS20-80Z42TS5-A2-INT	IRB-GS20-80Z42S-INT	IRCB501-4ED-INT	HRTA100-20-80Z42TS5-A2-INT	IRB-S20-80Z42S-INT	IRCB501-4ED-INT
HRTA100-GS20-100Z42TS5-A2-INT	IRB-GS20-100Z42S-INT	IRCB501-4ED-INT	HRTA100-20-100Z42TS5-A2-INT	IRB-S20-100Z42S-INT	IRCB501-4ED-INT
HRTA100-25-80Z42TS5-INT	IRB-S25-80Z42S-INT	IRCB501-4ED-INT	HRTA100-25-100Z42TS5-INT	IRB-S25-100Z42S-INT	IRCB501-4ED-INT
HRTA100-35-80Z42TS5-INT	IRB-S35-80Z42S-INT	IRCB501-4ED-INT	HRTA100-35-100Z42TS5-INT	IRB-S35-100Z42S-INT	IRCB501-4ED-INT

Table 4: Models of scara Industrial Robot

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CS3-aZbcd-fhi-INT	IRB-CS3-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4AD-INT	IR-CS6-aZbcd-fhi-INT	IRB-CS6-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4CD-INT
IR-S4-aZbcd-fhi-INT	IRB-S4-aZbcd-fhi-INT		IR-S7-aZbcd-fhi-INT	IRB-S7-aZbcd-fhi-INT	

Table 5: Models of scara Industrial Robot

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Model supplement description:

4_axis X1YA0003

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CS4-aZbcd-fhi-INT	IRB-CS4-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4AD-INT	IR-CS7-aZbcd-fhi-INT	IRB-CS7-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4CD-INT
IR-GS4-aZbcd-fhi-INT	IRB-GS4-aZbcd-fhi-INT		IR-GS7-aZbcd-fhi-INT	IRB-GS7-aZbcd-fhi-INT	
IR-CS5-aZbcd-fhi-INT	IRB-CS5-aZbcd-fhi-INT		IR-S7-60Z20S3-C2	IRB-S7-60Z20S3-C2	
IR-GS5-aZbcd-fhi-INT	IRB-GS5-aZbcd-fhi-INT		IR-GS8-aZbcd-fhi-INT	IRB-GS8-aZbcd-fhi-INT	
IR-GS10-aZbcd-fhi-INT	IRB-GS10-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4ED-INT IRCB501-4CD-INT	IR-CS8-aZbcd-fhi-INT	IRB-CS8-aZbcd-fhi-INT	
IR-S10-aZbcd-fhi-INT	IRB-S10-aZbcd-fhi-INT		HRTA100-4-40Z12TC3-INT	IRB-S4-40Z12C3-INT	IRCB501-4AD-INT
IR-CS10-aZbcd-fhi-INT	IRB-CS10-aZbcd-fhi-INT		HRTA100-4-40Z15TS3-INT	IRB-S4-40Z15S3-INT	IRCB501-4AD-INT
HRTA100-7-50Z17TC3-INT	IRB-S7-50Z17C-INT	IRCB501-4CD-INT	HRTA100-7-50Z20TS3-INT	IRB-S7-50Z20S-INT	IRCB501-4CD-INT
HRTA100-7-60Z17TC3-INT	IRB-S7-60Z17C-INT	IRCB501-4CD-INT	HRTA100-7-60Z20TS3-INT	IRB-S7-60Z20S-INT	IRCB501-4CD-INT
HRTA100-7-70Z17TC3-INT	IRB-S7-70Z17C-INT	IRCB501-4CD-INT	HRTA100-7-70Z20TS3-INT	IRB-S7-70Z20S-INT	IRCB501-4CD-INT
HRTA100-10-60Z17TC3-INT	IRB-S10-60Z17S-INT	IRCB501-4CD-INT	HRTA100-10-60Z20TS3-A2-INT	IRB-S10-60Z20S-INT	IRCB501-4CD-INT
HRTA100-10-70Z17TC3-INT	IRB-S10-70Z17S-INT	IRCB501-4CD-INT	HRTA100-10-70Z20TS3-A2-INT	IRB-S10-70Z20S-INT	IRCB501-4CD-INT
HRTA100-10-80Z17TC3-INT	IRB-S10-80Z17S-INT	IRCB501-4CD-INT	HRTA100-10-80Z20TS3-A2-INT	IRB-S10-80Z20S-INT	IRCB501-4CD-INT

Table 6: Models of scara Industrial Robot

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CTS3-aZbcd-fhi-INT	IRB-CTS3-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4CD -INT	IR-CTS4-aZbcd-fhi-INT	IRB-CTS4-aZbcd-fhi-INT	IRCB501-4MD-INT IRCB501-4CD -INT
IR-TS4-a5Zbcd-fhi-INT	IRB-TS4-aZbcd-fhi-INT		IR-GTS4-aZbcd-fhi-INT	IRB-GTS4-aZbcd-fhi-INT	
IR-TS5-aZbcd-fhi-INT	IRB-TS5-aZbcd-fhi-INT		IR-CTS5-aZbcd-fhi-INT	IRB-CTS5-aZbcd-fhi-INT	
IR-GTS5-aZbcd-fhi-INT	IRB-GTS5-aZbcd-fhi-INT		HRTA100-4-35Z15RS3-INT	IRB-TS4-35Z15S-INT	IRCB501-4CD-INT
			HRTA100-5-55Z15RS3-INT	IRB-TS5-55Z15S-INT	IRCB501-4CD-INT

Table 7: Models of scara Industrial Robot

Model	Manipulator Model	Cabinet Model
IR-C8-62Zbcd-fhi-INT	IRB-C8-62Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT

Table 8: Models of scara Industrial Robot

CERTIFICATE NO FS/71/220/26/2306

ZERTIFIKAT NR.:

LICENCE HOLDER
GENEHMIGUNGSINHABER

Suzhou Inovance Technology Co., Ltd.
No.52, Tian E Dang Road, Wuzhong District, 215104, Suzhou City, Jiangsu Province, P.R. China

MANUFACTURING PLANT
FERTIGUNGSSTÄTTE

Suzhou Inovance Technology Co., Ltd.
No.52, Tian E Dang Road, Wuzhong District, 215104, Suzhou City, Jiangsu Province, P.R. China

Model supplement description:

4_aixs X1YA0003

'a' should be 20~3100 for the Manipulator length; special: 54 stands for 54.5cm.

'b' should be 10-60 for the length of the 3-axis lead screw.

'c' should be the installation environment, C: clean, S: standard, P: high protection, F: die casting, WS: wall+ standard, WC: wall+ clean, WP: wall+ high protection, US: upside-down+standard, UP: upside-down+high protection, UC: upside-down + clean, HO: Hygienic Oil.

'd' Indicates the length of the towing cable, which should be 3-20 representing standard cables or G3-G20 representing highly flexible cables or blank.

for Table 3 'f' stands for customization cabinets information which should be M/Blank; M: Indicates a cabinet: IRCB501-4MD-INT. Blank: Indicates a cabinet: IRCB501-4ED-INT.

for Table 4 'f' stands for customization cabinets information which should be M/Blank; M: Indicates a cabinet: IRCB501-4MD-INT. Blank: Indicates a cabinet: IRCB501-4ED-INT.

for Table 5 'f' stands for customization cabinets information which should be M/E/ Blank; M: Indicates a cabinet: IRCB501-4MD-INT. Blank: Indicates a cabinet: IRCB501-4AD-INT or indicates a cabinet: IRCB501-4CD-INT. E: Indicates a cabinet: IRCB501-4ED-INT.

for Table 6 'f' stands for customization cabinets information which should be M/E/ Blank; M: Indicates a cabinet: IRCB501-4MD-INT. Blank: Indicates a cabinet: IRCB501-4AD-INT or indicates a cabinet: IRCB501-4CD-INT. E: Indicates a cabinet: IRCB501-4ED-INT.

for Table 7 'f' stands for customization cabinets information which should be M/E/ Blank; M: Indicates a cabinet: IRCB501-4MD-INT. Blank: Indicates a cabinet: IRCB501-4AD-INT or indicates a cabinet: IRCB501-4CD-INT. E: Indicates a cabinet: IRCB501-4ED-INT.

'h' stands for customization of Manipulator which should be 1SV/2SV/3SV/A/AD/HXW/Blank; 1SV: Built-in one solenoid valve, 2SV: Built-in two solenoid valve, 3SV: Built-in three solenoid valve, A: 90 Degree Bellow, AD: Using a low base, HXW: Including optional accessories, such as aviation plug, IO cable, network cable; Blank: No customization of manipulator.

'i' stands for information on usage scenarios which should be GJ/TR, JPN, or other region name codes specified by ISO 3166 standards/Blank; GJ: Silicone crystal industry, TR: Turkey, Blank: No Customized Information.

Additional:

Pendant Models: IRTP80-Le(*)-INT, IRTP81-Le(*)-INT, IR-TP200-Le(*)-INT; "*": bank/EMO

'e' should be 3-30 or blank for the towing cable information.

'(*)' may include a suffix "XXXXXXXXXX", Where "XXXXXXXXXX" can be blank or combination of any alphanumeric and/or symbols that represents customer identity.

Expansion Board Models: IRCB501-2ENID-BD, IRCB501-1600END-BD, IRCB501-0016ETND-BD, IRCB501-FS-01-BD, IRCB501-2PN-BD, IRCB501-6LDI3-BD, IR-EC-CCLINK.