CERTIFICATE NO. FS/71/220/25/2081

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

W45U-AU10

LICENSED TEST MARK
GENEHMIGTES PRÜFZEICHEN

FUNKTIONALE SICHERHEIT GEPRÜFT
FUNCTIONAL SAFETY APPROVED

Certification Report No.
ZERTIFIKATSBERICHT NR.

W45U0011, W45U0012
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 3-Page 7)

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 W45U0011, W45U0012)

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, Dec. 10, 2025

i.V. Robert Sammer

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

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E-Mail: fs@sgs.com

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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:

SF	Safety Functions Name	$MTTF_D$ (years)		PFH (1/h)		Response Time	Safe State
		W45U 0012	W45U 0011	W45U0012	W45U0011		
SF1	System Emergency Stop	73	93	7.68×10^{-8}	4.94×10^{-8}	20ms	Stop category 0
SF2	System Protective Stop	73	93	7.68×10^{-8}	4.94×10^{-8}	20ms	Stop category 0
SF3	External Emergency Stop	92	127	4.94×10^{-8}	4.29×10^{-8}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF4	External Protective Stop	92	127	4.94×10^{-8}	4.29×10^{-8}		
SF5	System Emergency Stop Status Output	364	364	4.29×10^{-8}	4.29×10^{-8}	10ms	DO output low level
SF6	Teach Pendant/Control Cabinet Emergency Stop Status Output	87	87	5.79×10^{-8}	5.79×10^{-8}	10ms	DO output low level
SF7	Robot Moving Status Output	58	84	1.03×10^{-7}	5.79×10^{-7}	10ms	DO output low level
SF8	Robot Stopped Status Output	58	84	1.03×10^{-7}	5.79×10^{-7}	10ms	DO output low level
SF9	Safety Status Output	711	711	4.29×10^{-8}	4.29×10^{-8}	10ms	DO output low level
SF10	Safety Manual Mode	40	59	1.78×10^{-7}	1.03×10^{-7}	50ms (Stop category 0) 1000ms (Stop category 1)	Stop category 0/ Stop category 1
SF11	Joint Position Monitor	83	109	5.79×10^{-8}	4.29×10^{-8}		
SF12	Joint Speed Monitor	83	109	5.79×10^{-8}	4.29×10^{-8}		
SF13	TCP Position Monitor	40	59	1.78×10^{-7}	1.03×10^{-7}		
SF14	TCP Speed Monitor	40	59	1.78×10^{-7}	1.03×10^{-7}		
SF15	3-Position Enabling Function	134	149	4.29×10^{-8}	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 table).

W45U0012

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-R4-acd-fhi-INT	IRB-R4-acd-fhi-INT	IRCB501-6ND-INT	IR-R4H-54cd-fhi-INT	IRB-R4H-54cd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT			IRCB501-6LD-INT
IR-R7-acd-fhi-INT	IRB-R7-acd-fhi-INT	IRCB501-6ND-INT	IR-R7H-acd-fhi-INT	IRB-R7H-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT			IRCB501-6LD-INT
IR-R10-acd-fhi-INT	IRB-R10-acd-fhi-INT	IRCB501-6ND-INT	IR-R10H-acd-fhi-INT	IRB-R10H-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT			IRCB501-6FD-INT
IR-R11-90cd-fhi-INT	IRB-R11-90cd-fhi-INT	IRCB501-6ND-INT	IR-CR4-acd-fhi-INT	IRB-CR4-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT			IRCB501-6LD-INT
IR-CR4H-54cd-fhi-INT	IRB-CR4H-54cd-fhi-INT	IRCB501-6ND-INT	IR-CR7-acd-fhi-INT	IRB-CR7-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT			IRCB501-6LD-INT
IR-CR7H-acd-fhi-INT	IRB-CR7H-acd-fhi-INT	IRCB501-6ND-INT	IR-CR10-acd-fhi-INT	IRB-CR10-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT			IRCB501-6FD-INT
IR-CR10H-acd-fhi-INT	IRB-CR10H-acd-fhi-INT	IRCB501-6ND-INT	IR-CR11-90cd-fhi-INT	IRB-CR11-90cd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT			IRCB501-6FD-INT
IR-R4H-54S-X20-INT	IRB-R4H-54S-X20-INT	IRCB501-6LD-INT	HRTA300-4-56TS5-INT	IRB-R4-56S-INT	IRCB501-6LD-INT
HRTA300-R4H-54S5-INT	IRB-R4-54S-INT	IRCB501-6LD-INT	IR-R7H-90S-DP40-INT	IRB-R7H-90S-DP40-INT	IRCB501-6LD-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-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

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-R10-acd-fhi-INT	IRB-R10-acd-fhi-INT	IRCB501-6ND-INT	IR-R12-140cd-fhi-INT	IRB-R12-140cd-fhi-INT	IRCB501-6ND-INT
IR-R13-140cd-fhi-INT	IRB-R13-140cd-fhi-INT	IRCB501-6ND-INT	IR-R15-145cd-fhi-INT	IRB-R15-145cd-fhi-INT	IRCB501-6ND-INT

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Model supplement description:

W45U0012

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-R16-acd-fhi-INT	IRB-R16-acd-fhi-INT	IRCB501-6ND-INT	IR-R20-acd-fhi-INT	IRB-R20-acd-fhi-INT	IRCB501-6ND-INT
IR-R25-acd-fhi-INT	IRB-R25-acd-fhi-INT	IRCB501-6ND-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	IR-R35-170cd-fhi-INT	IRB-R35-170cd-fhi-INT	IRCB501-6ND-INT
IR-CR10-acd-fhi-INT	IRB-CR10-acd-fhi-INT	IRCB501-6ND-INT	IR-CR12-140cd-fhi-INT	IRB-CR12-140cd-fhi-INT	IRCB501-6ND-INT
IR-CR13-140cd-fhi-INT	IRB-CR13-140cd-fhi-INT	IRCB501-6ND-INT	IR-CR15-145cd-fhi-INT	IRB-CR15-145cd-fhi-INT	IRCB501-6ND-INT
IR-CR16-acd-fhi-INT	IRB-CR16-acd-fhi-INT	IRCB501-6ND-INT	IR-CR20-acd-fhi-INT	IRB-CR20-acd-fhi-INT	IRCB501-6ND-INT
IR-CR25-acd-fhi-INT	IRB-CR25-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	IR-R15H-145cd-fhi-INT	IRB-R15H-145cd-fhi-INT	IRCB501-6ND-INT
HRTA300-16-210TS5-INT	IRB-R16-210S-INT	IRCB501-6ND-INT	IR-R20H-acd-fhi-INT	IRB-R20H-acd-fhi-INT	IRCB501-6ND-INT
HRTA300-25-178TS5-INT	IRB-R25-178S-INT	IRCB501-6ND-INT	HRTA300-35-185TS7-INT	IRB-R35-185S-INT	IRCB501-6ND-INT
IR-CR15H-145cd-fhi-INT	IRB-CR15H-145cd-fhi-INT	IRCB501-6ND-INT	IR-CR20H-acd-fhi-INT	IRB-CR20H-acd-fhi-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, EX: explosionproof.
'd' should be 3-20 or blank for the towing cable information.
for Table 1 'f' stands for customization cabinets information which should be C/Blank; C: Indicates a non-standard cabinet, IRCB501-6ND-INT. Blank: Indicates a standard cabinet, IRCB501-6LD-INT or IRCB501-6FD-INT.
for Table 2 'f' stands for customization cabinets information which should be Blank. Blank: Indicates a standard cabinet, IRCB501-6ND-INT.
'h' stands for customization of Manipulator which should be SV/A/AD/HXW/Blank; SV: Built-in 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/Blank; GJ: Silicone crystal industry, Blank: No Customized Information.
Additional:
Pendant Models: IRTP80-Le(*), IRTP81-Le(*), IR-TP200-Le(*).
'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.

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Model supplement description:

W45U0011

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

Table 3: Models of scara Industrial Robot

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CS20-aZbcd-fhi-INT	IRB-CS20-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-S20-aZbcd-fhi-INT	IRB-S20-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT			IRCB501-4ED-INT
IR-GS20-aZbcd-fhi-INT	IRB-GS20-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-S25-aZbcd-fhi-INT	IRB-S25-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT			IRCB501-4ED-INT
IR-GS25-aZbcd-fhi-INT	IRB-GS25-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-S30-aZbcd-fhi-INT	IRB-S30-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT			IRCB501-4ED-INT
IR-GS30-aZbcd-fhi-INT	IRB-GS30-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-S35-aZbcd-fhi-INT	IRB-S35-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT			IRCB501-4ED-INT
IR-GS35-aZbcd-fhi-INT	IRB-GS35-aZbcd-fhi-INT	IRCB501-4MD-INT	HRTA100-GS20-80Z42TS5-A2-INT	IRB-GS20-80Z42S-INT	IRCB501-4ED-INT
		IRCB501-4ED-INT			
HRTA100-GS20-100Z42TS5-A2-INT	IRB-GS20-100Z42S-INT	IRCB501-4ED-INT	HRTA100-20-80Z42TS5-A2-INT	IRB-S20-80Z42S-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

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Model supplement description:

W45U0011

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
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-S4-aZbcd-fhi-INT	IRB-S4-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-S7-aZbcd-fhi-INT	IRB-S7-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4AD-INT			IRCB501-4CD-INT
IR-S7-60Z20S3-C2	IRB-S7-60Z20S3-C2	IRCB501-4MD-INT	IR-GS10-aZbcd-fhi-INT	IRB-GS10-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT			IRCB501-4CD-INT
IR-S10-aZbcd-fhi-INT	IRB-S10-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-CS3-aZbcd-fhi-INT	IRB-CS3-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT			IRCB501-4AD-INT
IR-CS6-aZbcd-fhi-INT	IRB-CS6-aZbcd-fhi-INT	IRCB501-4MD-INT	IR-CS10-aZbcd-fhi-INT	IRB-CS10-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT			IRCB501-4CD-INT
HRTA100-4-40Z15TS3-INT	IRB-S4-40Z15S3-INT	IRCB501-4AD-INT	HRTA100-4-40Z12TC3-INT	IRB-S4-40Z12C3-INT	IRCB501-4AD-INT
HRTA100-7-50Z20TS3-INT	IRB-S7-50Z20S-INT	IRCB501-4CD-INT	HRTA100-7-60Z20TS3-INT	IRB-S7-60Z20S-INT	IRCB501-4CD-INT
HRTA100-7-70Z20TS3-INT	IRB-S7-70Z20S-INT	IRCB501-4CD-INT	HRTA100-7-60Z17TC3-INT	IRB-S7-60Z17C-INT	IRCB501-4CD-INT
HRTA100-7-50Z17TC3-INT	IRB-S7-50Z17C-INT	IRCB501-4CD-INT	HRTA100-7-70Z17TC3-INT	IRB-S7-70Z17C-INT	IRCB501-4CD-INT
HRTA100-10-60Z20TS3-A2-INT	IRB-S10-60Z20S-INT	IRCB501-4CD-INT	HRTA100-10-70Z20TS3-A2-INT	IRB-S10-70Z20S-INT	IRCB501-4CD-INT
HRTA100-10-80Z20TS3-A2-INT	IRB-S10-80Z20S-INT	IRCB501-4CD-INT	HRTA100-10-60Z17TC3-INT	IRB-S10-60Z17S-INT	IRCB501-4CD-INT
HRTA100-10-70Z17TC3-INT	IRB-S10-70Z17S-INT	IRCB501-4CD-INT	HRTA100-10-80Z17TC3-INT	IRB-S10-80Z17S-INT	IRCB501-4CD-INT

Table 5: Models of scara Industrial Robot

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Model supplement description:

W45U0011

Model	Manipulator Model	Cabinet Model	Model	Manipulator Model	Cabinet Model
IR-CTS3-35Zbcd-fhi-INT	IRB-CTS3-35Zbcd-fhi-INT	IRCB501-4MD-INT	IR-CTS4-35Zbcd-fhi-INT	IRB-CTS4-35Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD -INT			IRCB501-4CD -INT
IR-TS4-35Zbcd-fhi-INT	IRB-TS4-35Zbcd-fhi-INT	IRCB501-4MD-INT	IR-TS5-55Zbcd-fhi-INT	IRB-TS5-55Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD -INT			IRCB501-4CD -INT
HRTA100-4-35Z15RS3-INT	IRB-TS4-35Z15S-INT	IRCB501-4CD-INT	HRTA100-5-55Z15RS3-INT	IRB-TS5-55Z15S-INT	IRCB501-4CD-INT

Table 6: 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 7: Models of scara Industrial Robot

'a' stands 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.
'd' should be 3-20 or blank for the towing cable information.
for Table 3 'f' stands for customization cabinets information which should be C/Blank; C: Indicates a non-standard cabinet, IRCB501-4MD-INT. Blank: Indicates a standard cabinet, IRCB501-4ED-INT.
for Table 4 'f' stands for customization cabinets information which should be C/Blank; C: Indicates a non-standard cabinet, IRCB501-4MD-INT. Blank: Indicates a standard cabinet, IRCB501-4ED-INT.
for Table 5 'f' stands for customization cabinets information which should be C/Blank; C: Indicates a non-standard cabinet, IRCB501-4MD-INT. Blank: Indicates a standard cabinet, IRCB501-4AD-INT or IRCB501-4CD-INT.
for Table 6 'f' stands for customization cabinets information which should be C/Blank; C: Indicates a non-standard cabinet, IRCB501-4MD-INT. Blank: Indicates a standard cabinet, IRCB501-4CD-INT.
for Table 7 'f' stands for customization cabinets information which should be C/Blank; C: Indicates a non-standard cabinet, IRCB501-4MD-INT. Blank: Indicates a standard cabinet, IRCB501-4ED-INT.
'h' stands for customization of Manipulator which should be SV/A/AD/HXW/Blank; SV: Built-in 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/Blank; GJ: Silicone crystal industry, Blank: No Customized Information.

Additional:

Pendant Models: IRTP80-Le(*), IRTP81-Le(*), IR-TP200-Le(*).
'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.