EC DECLARATION OF CONFORMITY

CE

Suzhou Inovance Technology Co., Ltd.

No. 52, Tian E Dang Road, Wuzhong District, 215104，Suzhou City, Jiangsu Province，P.R. China
declares under sole responsibility conformity of the following products

Product	**Industrial Robot**
Model	**See Annex for model list**

with regard to the safety functions:

System Emergency Stop	**System Protective Stop**
External Emergency Stop	**External Protective Stop**
System Emergency Stop Status Output	**Safety Status Output**
Teach Pendant/Control Cabinet Emergency Stop Status Output	
Safety Manual Mode	**Joint Position Monitor**
Joint Speed Monitor	**TCP Position Monitor**
TCP Speed Monitor	**3-Position Enabling Function**

fulfil all the relevant safety component requirements of EC Machinery Directive 2006/42/EC, When the listed safety function is used for safety component functionality.

Applied Harmonized Standards：

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

The product (s) also fulfil the relevant provisions of the Electromagnetic Compatibility Directive 2014/30/EU and the RoHS Directive 2011/65/EU. Declaration of Conformity according to these directives is available from the manufacturer.

Trade Mark	INOVANCE
The CE-marking was first affixed in	**25**
Name, Surname	**Yuchuan Liu**
Position/Title	**Vice-president, R&D**
Signature	Liu Yuchuan
Date	**2025-03-12**

Name and address of the person authorized to compile the technical file:

Company name	**:**	**Inovance Technology Europe GmbH**
Position	**:**	**Engineering Services Manager**
Name	**:**	**Hans-Peter Abel**
Company address	**:**	**Gottlieb-Daimler-Straße 17/2, 74385 Pleidelsheim, Germany**
Tel	**:**	**+49 (7144) 899-328**

Certification body:
SGS-TÜV SAAR Product Service GmbH Zertifizierstellen
Hofmannstrasse 50,
81379 MÜNCHEN / Germany

ANNEX

Model list:

Model	Manipulator model	Cabinet Model
IR-CS50-120Zbcd-fhi-INT	IRB-CS50-120Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-S50-120Zbcd-fhi-INT	IRB-S50-120Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-GS50-120Zbcd-fhi-INT	IRB-GS50-120Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
Note:		
'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.		
'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.		

Model	Manipulator model	Cabinet Model
IR-CS20-aZbcd-fhi-INT	IRB-CS20-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-S20-aZbcd-fhi-INT	IRB-S20-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT

IR-GS20-aZbcd-fhi-INT	IRB-GS20-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-S25-aZbcd-fhi-INT	IRB-S25-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-GS25-aZbcd-fhi-INT	IRB-GS25-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-S30-aZbcd-fhi-INT	IRB-S30-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-GS30-aZbcd-fhi-INT	IRB-GS30-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-S35-aZbcd-fhi-INT	IRB-S35-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
IR-GS35-aZbcd-fhi-INT	IRB-GS35-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT

Note:

‘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.

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

‘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.

Model	Manipulator model	Cabinet Model
IR-S4-40Zbcd-fhi-INT	IRB-S4-40Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4AD-INT
IR-S7-aZbcd-fhi-INT	IRB-S7-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT
IR-S7-60Z20S3-C2	IRB-S7-60Z20S3-C2	IRCB501-4MD-INT
		IRCB501-4CD-INT
IR-GS10-aZbcd-fhi-INT	IRB-GS10-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT
IR-S10-aZbcd-fhi-INT	IRB-S10-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT
IR-CS3-40Zbcd-fhi-INT	IRB-CS3-40Zbcd-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-CS10-aZbcd-fhi-INT	IRB-CS10-aZbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT

Note:

‘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.

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

‘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.

Model	Manipulator model	Cabinet Model
IR-CTS3-35Zbcd-fhi-INT	IRB-CTS3-35Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD -INT
IR-CTS4-35Zbcd-fhi-INT	IRB-CTS4-35Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD -INT
IR-TS4-35Zbcd-fhi-INT	IRB-TS4-35Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD -INT
IR-TS5-55Zbcd-fhi-INT	IRB-TS5-55Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD -INT

Note:
‘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.
‘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.
‘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.

Model	Manipulator model	Cabinet Model
IRS111-3-aZbTSd-fhi-INT	IRB111-3-aZbTSd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4AD-INT
IRS111-10-50ZbTSd-fhi-INT	IRB111-10-50ZbTSd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT
IRS111-20-aZbTSd-fhi-INT	IRB111-20-aZbTSd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4CD-INT
Note:		
‘a’ stand for the Manipulator length; special: 54 stands for 54.5cm.		
‘b’ should be 10-60 for the length of the 3-axis lead screw.		
‘d’ should be 3-20 or blank for the towing cable information.		
‘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.		
‘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.		

Model	Manipulator model	Cabinet Model
IR-C8-62Zbcd-fhi-INT	IRB-C8-62Zbcd-fhi-INT	IRCB501-4MD-INT
		IRCB501-4ED-INT
Note:		
‘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.
‘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.

Model	Manipulator model	Cabinet Model
IRS311-3-60TSd-fhi-INT	IRB311-3-60TSd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IRS311-7-aTSd-fhi-INT	IRB311-7-aTSd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IRS311-7-90TS5-GJ-B1	IRB311-7-90TS5-GJ-B1	IRCB501-6ND-INT
		IRCB501-6LD-INT
Note:		
‘a’ stand for the Manipulator length; special: 54 stands for 54.5cm.		
‘d’ should be 3-20 or blank for the towing cable information.		
‘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.		
‘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.

Model	Manipulator model	Cabinet Model
IR-R4-acd-fhi-INT	IRB-R4-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-R4H-54cd-fhi-INT	IRB-R4H-54cd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-R7-acd-fhi-INT	IRB-R7-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-R7H-acd-fhi-INT	IRB-R7H-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-R10-acd-fhi-INT	IRB-R10-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT
IR-R10H-acd-fhi-INT	IRB-R10H-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT
IR-R11-90cd-fhi-INT	IRB-R11-90cd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT
IR-CR4-acd-fhi-INT	IRB-CR4-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-CR4H-54cd-fhi-INT	IRB-CR4H-54cd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-CR7-acd-fhi-INT	IRB-CR7-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-CR7H-acd-fhi-INT	IRB-CR7H-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6LD-INT
IR-CR10-acd-fhi-INT	IRB-CR10-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT
IR-CR10H-acd-fhi-INT	IRB-CR10H-acd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT

IR-CR11-90cd-fhi-INT	IRB-CR11-90cd-fhi-INT	IRCB501-6ND-INT
		IRCB501-6FD-INT
Note:		
'a' stand 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.		
'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.		
'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.		

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
IR-R16-200cd-fhi-INT	IRB-R16-200cd-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-CR16-200cd-fhi-INT	IRB-CR16-200cd-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
Note:		
‘a’ stand 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.		
‘d’ should be 3-20 or blank for the towing cable information.		
‘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.		