

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275872

Blatt Page
0001

Ihr Zeichen Client Reference
K.S.

Unser Zeichen Our Reference
ZJL-YTS- 50000694 001

Ausstellungsdatum
25.02.2014

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder
Hirose Electric Co., Ltd.
5-5-23 Osaki
Shinagawa-ku, Tokyo
141-8587 JAPAN

Fertigungsstätte Manufacturing Plant
Koriyama Hirose Electric Co., Ltd.
87-3 Okawara
Koriyama-shi, Fukushima
963-8828 JAPAN

Prüfzeichen Test Mark



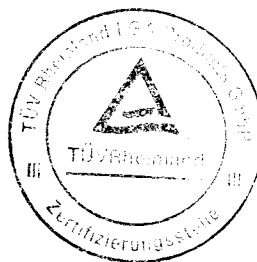
Geprüft nach Tested acc. to
EN 61984:2009

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Connector Connector without breaking capacity

Type Designation:	FX30B series	5
	FX30B- (w) P-3.81(x) (y) (z) (Header)	1
	FX30B- (w) S-3.81(x) (z) (Receptacle)	1
	(w) = 2 to 5	1
	(x) = DS or DSA	1
	(y) = 20, 25, 30 (x = DSA)	1
	or Blank (x = DS)	
	(z) = Blank or 01 to 99	
Classification:	COC (Non-CBC)	
Number of Poles:	2 to 5	
Rated Voltage:	AC/DC 150V	
Rated Current:	(see Appendix 1)	
Overvoltage Category:	II	
Pollution Degree:	2	
IP-degree:	IP00 (see Appendix 1)	
Max Ambient Temperature:	+75°C	
Upper Limit Temperature:	+105°C	
Lower Limit Temperature:	-55°C	



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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221) 8 06 - 13 71 e-mail: cert-validity@de.tuv.com
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Zertifizierungsstelle

Dipl.-Ing. (FH) J. Taylor

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275872

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0002

Ihr Zeichen Client Reference
H.S.

Unser Zeichen Our Reference
ZJL-MAS- 50000694 002

Ausstellungsdatum
08.04.2015

Date of Issue
(day/month/year)

Genehmigungsinhaber License Holder
Hirose Electric Co., Ltd.
5-5-23 Osaki
Shinagawa-ku, Tokyo
141-8587 JAPAN

Fertigungsstätte Manufacturing Plant
Koriyama Hirose Electric Co., Ltd.
87-3 Okawara
Koriyama-shi, Fukushima
963-8828 JAPAN

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
EN 61984:2009



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Connector Connector without breaking capacity, as page 0001

Addition

Type Designation:	FX30B-(w)P-7.62(x)(y)(z) (Header)	1
	FX30B-(w)S-7.62(x)(z) (Receptacle)	1
	(w) = 2 or 3	
	(x) = DS or DSA	
	(y) = 20, 25, 30 (x = DSA)	
	or Blank (x = DS)	
	(z) = Blank or 01 to 99	
Classification:	COC (Non-CBC)	
Number of Poles:	2 or 3	
Rated Voltage:	AC/DC 600V	
Rated Current:	19A(2poles), 18A(3poles)	
Overvoltage Category:	II	
Pollution Degree:	2	
IP-degree:	IP00	



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ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

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Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle

F. Becker

Dipl.-Ing. (FH) F. Becker



TÜVRheinland®
DIN CERTCO

Certificate No. R50275872
Our reference ZJL-MAS- 50000694 002
Appendix No. 1.1

(To be filled in by TÜV Rheinland)



TÜVRheinland®

Constructional Data Form for Connector

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License holder: Hirose Electric Co., Ltd.
5-5-23 Osaki, Shinagawa-ku, Tokyo 141-8587 Japan
Factory: Koriyama Hirose Electric Co., Ltd.
(Full address) 87-3, Ohkawara, Koriyama-shi, Fukushima 963-8828 Japan
Type or Model Number: **FX30B series**
Kind of device: **Connectors**

Specifications		
	Contact pitch : 3.81	Contact pitch : 7.62
Type designation	(See the nomenclature on last page)	
Contact material	Header side : Copper Alloy(≥ 99% Cu) / Au&Ni-Plating(Contact area) / Sn& Ni-Plating(Lead area) Receptacle side : Copper Alloy(≥ 96% Cu) / Au&Ni-Plating(Contact area) / Sn& Ni-Plating(Lead area)	
Number of poles	2 to 5	2 or 3
Rated voltage	AC/DC 150 V	AC/DC 600 V
Rated current	2 poles : 17A max. / contact 3 poles : 16A max. / contact 4 poles : 15A max. / contact 5 poles : 15A max. / contact	2 poles : 19A max. / contact 3 poles : 18A max. / contact
Mechanical endurance	100 times	
Classification	☐ CBC ☒ COC (Non CBC) ☐ other	
Number of bendings (non-rewirable terminals only)	N/A	
Upper limit temperature	+105°C	
Lower limit temperature	-55°C	
Maximum ambient temperature at rated current	75°C	

TÜV Rheinland

24 March 2015

(Date)

H. Maeda

(Signature)

Tokyo, Japan

(Place)

24 March 2015

(Date)

Hirose Electric Co., Ltd. Kenichi Sato

K. Sato

(Stamp and Signature of Applicant)



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Appendix No. 1.1

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Constructional Data Form for Connector

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Classification of Connectors ☒ COC ☐ CBC						
Type of connector	Style	Enclosure	Cable Clamp		Function	
FX30B series	☐ Free Connector ☒ Fixed Connector	☒ Enclosed ☐ Un-enclosed	☐ Hand Back Safety mated ☐ Hand Back Safety unmated ☐ Finger Safety mated ☐ Finger Safety unmated ☐ IP67 mated ☐ IP20 unmated	☐ with ☐ with additional insulation bushing ☒ without	Applicable Cable Size Range: N/A	☐ with PE ☒ without PE
		*1) Protection class mated: ☐ Class I ☐ Class II ☒ N/A				☐ with interlock ☒ without interlock

Remark: *1) The protection class of components is dependent upon the equipment in which they are used, these connectors are intended for class I equipment normally.

Insulation Coordination		
	Contact pitch : 3.81	Contact pitch : 7.62
Overvoltage category	II	
Pollution degree	2	
Impulse voltage	contact – contact : 1500 V	contact – contact : 4000 V
Minimum creepage distances (mated)	contact – contact : 1.21 mm contact – body (reference only) : 0.84 mm	Live Contact – Live Contact: N/A Earth Terminal & Metal Shell – Live Contacts: N/A Live Contact – Live Contact (terminals of socket): 5.02mm Earthed Metal Shell – Live Parts (terminals of socket): N/A
Minimum clearance (mated)	contact – contact : 1.21 mm contact – body (reference only) : 0.84 mm	Live Contact – Live Contact: N/A Earth Terminal & Metal Shell – Live Contacts: N/A Live Contact – Live Contact (terminals of socket): 5.02mm Earthed Metal Shell – Live Parts (terminals of socket): N/A
Insulation system (IEC 60664-1)	Contact – Contact : ☒ basic ☐ reinforced ☐ NA Contact-body : ☐ basic ☐ reinforced ☒ NA	

TÜV Rheinland

24 March 2015

(Date)

In. Masuda

(Signature)

Tokyo, Japan

(Place)

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(Date)

Hirose Electric Co., Ltd. Kenichi Sato

K. Sato

(Stamp and Signature of Applicant)



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Constructional Data Form for Connector

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Specifications of Terminals / Connection ☐ Rewirable ☒ Non-rewirable	
Type of terminals	Press in terminal
Terminal designation	Press in connections
Spec. Tightening torque	N/A
Rated cross section of conductor	N/A
Type of conductor	N/A
Required preparation of the conductor	N/A
Max. Stripping length	N/A
Max. Number of conductors per terminal	1

Materials		
Type designation	See Nomenclature	
Contact material	See Specifications	
Contact block	Polyamide 9T GN2330 (KURARAY CO LTD) CTI: 2 (400 V – 600 V), RTI:130 °C	
Connector body	Same as above	
Other parts	Metal hold down: Phosphor bronze	
*2) Cord Anchorage	Insulation Bushing	N/A
	Backshell and clamping units	N/A

*2) Parts for Secure Cord Anchorage:

TÜV Rheinland

24 March 2015

(Date)

(Signature)

Tokyo, Japan

(Place)

24 March 2015

(Date)

Hirose Electric Co., Ltd. Kenichi Sato

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DIN CERTCO

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Appendix No. 1.1

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Constructional Data Form for Connector

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TYPE NOMENCLATURE :

FX30B series

Header

FX30B - (w) P – 3.81 (x) (y) (z)

Receptacle

FX30B - (w) S - 3.81 (x) (z)

(x) Number of contact : 2 to 5

(x) Mount type : DS (right angle type) or DSA (straight type)

(y) Stacking height : 20, 25 or 30(x=DSA) or Blank(x=DS)

(z) customer specifications (packing and color) : Blank or 01 to 99

Header

FX30B - (w) P – 7.62 (x) (y) (z)

Receptacle

FX30B - (w) S - 7.62 (x) (z)

(x) Number of contact : 2 or 3

(x) Mount type : DS (right angle type) or DSA (straight type)

(y) Stacking height : 20, 25 or 30(x=DSA) or Blank(x=DS)

(z) customer specifications (packing and color) : Blank or 01 to 99

TÜV Rheinland

24 March 2015

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H. Masuda

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Tokyo, Japan

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