

CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-19940913
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS

USL, CNL, Programmable Controller, K-10 Series, consists of main unit Model K14P DR, expansion unit Model K10E-DR, and programmer unit Model K10-100H; Master-K10S series, consists of main unit Models K14P, may be followed by C, followed by -DRS or -DRS/DC, Expansion Unit, Model K10E-DRS.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 508 Standard for Industrial Control Equipment, C22.2, No.14. Standard for Industrial Control Equipment

Additional Information:

See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-19981013
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS

USL, CNL, Programmable Controller, K10S Series, consists of Base Unit, Models K14P-, may be followed by C followed by D, followed by R or T followed by S, may be followed by (N), may be followed by /DC, expansion unit Models K10E-D followed by R or T followed by S, may be followed (N).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508 Standard for Industrial Control Equipment, C22.2, No. 14. Standard for Industrial Control Equipment.

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-19981014
Issue Date 2020-APRIL-18

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Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
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PROGRAMMABLE CONTROLLERS

USL, CNL, Programmable Controller, K60S Series, consists of Base Unit, Models K56PA-D followed by R or T, followed by S, may be followed by (N) may be followed by 1, expansion unit, models K16E-DRS and K16E-DTS(N), option unit model K56E-OPT.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508 Standard for Industrial Control equipment,
C22.2, No. 14 Standard for Industrial Control Equipment.

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Report Reference E124950-19981015
Issue Date 2020-APRIL-18

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Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
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PROGRAMMABLE CONTROLLERS
USL, CNL, Programmable Controller, K10S1 Series,
consists of Base Unit, Model K14P1-DRS.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 14-10 Standard for Industrial Control
Equipment.

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-19981016
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
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Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS

USL, CNL, Programmable Controller, K30S Series, consists of Base Unit, Models K24 or K32, may be followed by P, followed by A, followed by -D followed by R or T, followed by S, may be followed by (N).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508 Standard for Industrial Control Equipment, C22.2, No. 14. Standard for Industrial Control Equipment.

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20000907
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS
Refer to Addendum Page for Models/Product.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
Control Equipment.

Additional Information:

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20000907
Issue Date 2020-APRIL-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models/Product

USL, CNL – Programmable Logic Controllers, Series GM6 and K200S.

NOTE: Model series K200S is identical to model series GM6, only the model numbers have changed.

Listing of model numbers covered by this report:

G6F AD2A, G6F DA2I, G6F DA2V, G6F-HD1A, G6F-HO1A, G6F HSCA, G6F POPA, G6F-PP10, G6F-PP20, G6F-PP30, G6F-PP1D, G6F-PP2D, G6F-PP3D, G6F-TC2A, G6H DR2A, G6I A11A, G6I A21A, G6I D21A, G6I D22A, G6I D22B, G6I D24A, G6I D24B, G6L CUEB, G6L CUEC, G6L DUEA, G6L-EUTB, G6L-EUFB, G6L-EUTC, G6L-EUFC, G6L-ERTC, G6L-ERFC, G6L FUEA, G6L-PUEA, G6L-PUEB, G6L RBEA, G6L-RREA, G6Q RY1A, G6Q RY2A, G6Q-RY2B, G6Q SS1A, G6Q TR2A, G6Q TR2B, G6Q TR4A, G6Q TR4B, GM6 B04M, GM6 B06M, GM6 B08M, GM6 B12M, GM6 CPUA, GM6 CPUB, GM6 CPUC, GM6-DMMA, GM6-PA2A, GM6 PAFA, GM6 PAFB, GM6 PAFC, GM6 PDFA, GM6 PDFB, K3B 12MS, K3B 4MS, K3B 6MS, K3B 8MS, K3F AD2A, K3F CU2A, K3F CU4A, K3F DI2A, K3F DUEA, K3F DV2A, K3F FUEA, K3F HSCA, K3F POPA, K3F RBEA, K3P 07AS, K3P 07BS, K3P 07CS, K3S 012S, K3S 014S, K3S 302S, K3S 304S, K3S 305S, K3X 101S, K3X 102S, K3X 110S, K3X 120S, K3X 130S, K3X 210S, K3X 240S, K3X 310S, K3X 340S, K3Y 201S, K3Y 203S, K3Y 204S, K3Y 303S, K3Y 304S



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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20000908
Issue Date 2020-APRIL-18

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Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

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PROGRAMMABLE CONTROLLERS
Refer to Addendum Page for Models/Product.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
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Certificate Number E124950
Report Reference E124950-20000908
Issue Date 2020-APRIL-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models/Product

USL, CNL – Open-Type Programmable Logic Controllers, Series GM7 and K80S.

NOTE: Model series K80S is identical to model series GM7, only the model numbers are different.

Alphabetical listing of model numbers covered by this report:

G7E DR10A, G7E-DR20A, G7E-TR10A, G7E RTCA, G7F ADHA, G7F-ADHB, G7F-ADHC, G7F AT2A, G7F-DA2I, G7F-DA2IA, G7L CUEB, G7L CUEC, G7M DR10A, G7M DR10A/DC, G7M DR20A, G7M DR20A/DC, G7M DT20A, G7M DR30A, G7M DR30A/DC, G7M DT30A, G7M DR40A, G7M DR40A/DC, G7M DT40A, G7M DR60A, G7M DR60A/DC, G7M DT60A, G7M M256, K7M DR10S, K7M DR10S/DC, K7M DR20S, K7M DR20S/DC, K7M DR30S, K7M DR30S/DC, K7M DR40S, K7M DR40S/DC, K7M DR60S, K7M DR60S/DC, K7M DT20S, K7M DT30S, K7M DT40S, K7M DT60S, G7M-DT10A, K7M-DT10S, G7L-DBEA, G7L-PBEA, G7L-FUEA, G7F-AD2A, G7F-AD2B, G7E-DC08A, G7E-RY08A, G7E-RY16A, G7E-DR08A, G7E-DA2V, G7F-RD2A.

Rated Ambient Temperature for all models is 55 °C.



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-90102002-1
Report Reference E124950-20020109
Date 9-Nov-2022

Issued to: LS ELECTRIC Co Ltd
CHEONAN PLANT 56
56 SAMSEONG4-GIL CHEONAN, Chungcheongnam-do
31226
Republic of Korea

**This is to certify that
representative samples of**

NRAQ - Programmable Controllers
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508, Standard for Industrial Control Equipment

Additional Information: See the UL Online Certifications Directory at
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Report Reference E124950-20020109
Date 9-Nov-2022

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Model	Category Description
GCL Series	Programmable controllers, open-type
GCL-D22A	GCL Series input modules
GCL-D22C	GCL Series input modules
GCL-D24A	GCL Series input modules
GCL-D24C	GCL Series input modules
GCL-DT4B	GCL Series input/output modules
GCL-DT4C	GCL Series input/output modules
GCL-DT4C1	GCL Series input/output modules
GCL-RY2A	GCL Series output modules
GCL-RY2C	GCL Series output modules
GCL-TR2A	GCL Series output modules
GCL-TR2A1	GCL Series output modules
GCL-TR2B	GCL Series output modules
GCL-TR2C	GCL Series output modules
GCL-TR2C1	GCL Series output modules
GCL-TR4A	GCL Series output modules
GCL-TR4A1	GCL Series output modules
GCL-TR4B	GCL Series output modules
GCL-TR4C	GCL Series output modules
GCL-TR4C1	GCL Series output modules
GDL Series	Programmable controllers, open-type
GDL-D22A	GDL Series input modules
GDL-D22C	GDL Series input modules
GDL-D24A	GDL Series input modules
GDL-D24C	GDL Series input modules
GDL-DT4A	GDL Series input/output modules
GDL-DT4A1	GDL Series input/output modules
GDL-DT4B	GDL Series input/output modules
GDL-DT4C	GDL Series input/output modules
GDL-DT4C1	GDL Series input/output modules
GDL-RY2A	GDL Series output modules
GDL-RY2C	GDL Series output modules
GDL-TR2A	GDL Series output modules
GDL-TR2A1	GDL Series output modules
GDL-TR2B	GDL Series output modules
GDL-TR2C	GDL Series output modules
GDL-TR2C1	GDL Series output modules
GDL-TR4A	GDL Series output modules
GDL-TR4A1	GDL Series output modules

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GDL-TR4B	GDL Series output modules
GDL-TR4C	GDL Series output modules
GDL-TR4C1	GDL Series output modules
GEL-AC8C	Open type, Programmable controllers
GEL-AV8C	Open type, Programmable controllers
GEL-D24C	Open type, Programmable controllers
GEL-DC4C	Open type, Programmable controllers
GEL-DV4C	Open type, Programmable controllers
GEL-RY2C	Open type, Programmable controllers
GPL Series	Programmable controllers, open-type
GPL-AC8C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-AV8C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-D22A	GPL Series input modules
GPL-D22C	GPL Series input modules
GPL-D24A	GPL Series input modules
GPL-D24C	GPL Series input modules
GPL-DC4C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-DT4A	GPL Series input/output modules
GPL-DT4A1	GPL Series input/output modules
GPL-DT4B	GPL Series input/output modules
GPL-DT4C	GPL Series input/output modules
GPL-DT4C1	GPL Series input/output modules
GPL-DV4C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-RY2A	GPL Series output modules
GPL-RY2C	GPL Series output modules
GPL-TR2A	GPL Series output modules
GPL-TR2A1	GPL Series output modules
GPL-TR2B	GPL Series output modules
GPL-TR2C	GPL Series output modules
GPL-TR2C1	GPL Series output modules
GPL-TR4A	GPL Series output modules
GPL-TR4A1	GPL Series output modules
GPL-TR4B	GPL Series output modules
GPL-TR4C	GPL Series output modules
GPL-TR4C1	GPL Series output modules
GRL Series	Programmable controllers, open-type
GRL-D22A	GRL Series input modules
GRL-D22C	GRL Series input modules
GRL-D24A	GRL Series input modules
GRL-D24C	GRL Series input modules
GRL-DT4A	GRL Series input/output modules

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GRL-DT4C	GRL Series input/output modules
GRL-DT4C1	GRL Series input/output modules
GRL-RY2A	GRL Series output modules
GRL-RY2C	GRL Series output modules
GRL-TR2A	GRL Series output modules
GRL-TR2C	GRL Series output modules
GRL-TR2C1	GRL Series output modules
GRL-TR4A	GRL Series output modules
GRL-TR4C	GRL Series output modules
GRL-TR4C1	GRL Series output modules
GSL Series	Programmable controllers, open-type
GSL-D22A	GSL Series input modules
GSL-D22C	GSL Series input modules
GSL-D24A	GSL Series input modules
GSL-D24C	GSL Series input modules
GSL-DT4A	GSL Series input/output modules
GSL-DT4C	GSL Series input/output modules
GSL-DT4C1	GSL Series input/output modules
GSL-RY2A	GSL Series output modules
GSL-RY2C	GSL Series output modules
GSL-TR2A	GSL Series output modules
GSL-TR2C	GSL Series output modules
GSL-TR2C1	GSL Series output modules
GSL-TR4A	GSL Series output modules
GSL-TR4C	GSL Series output modules
GSL-TR4C1	GSL Series output modules
XDL Series	Programmable controllers, open-type
XDL-BSSA	XDL Series smart I/O adaptors
XEL-BSSA	XEL Series smart I/O adaptors
XEL-BSSB	XEL Series smart I/O adaptors
XPL Series	Programmable controllers, open-type
XPL-BSSA	XPL Series smart I/O adaptors
XRL-BSSA	XRL Series smart I/O adaptors



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-90102002-1
Report Reference E124950-20020109
Date 9-Nov-2022

Issued to: LS ELECTRIC Co Ltd
CHEONAN PLANT 56
56 SAMSEONG4-GIL CHEONAN, Chungcheongnam-do
31226
Republic of Korea

This is to certify that representative samples of NRAQ7 - Programmable Controllers Certified for Canada
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: CAN/CSA C22.2 No. 142-M1987 Standard for Process
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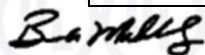


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Model	Category Description
GCL Series	Programmable controllers, open-type
GCL-D22A	GCL Series input modules
GCL-D22C	GCL Series input modules
GCL-D24A	GCL Series input modules
GCL-D24C	GCL Series input modules
GCL-DT4B	GCL Series input/output modules
GCL-DT4C	GCL Series input/output modules
GCL-DT4C1	GCL Series input/output modules
GCL-RY2A	GCL Series output modules
GCL-RY2C	GCL Series output modules
GCL-TR2A	GCL Series output modules
GCL-TR2A1	GCL Series output modules
GCL-TR2B	GCL Series output modules
GCL-TR2C	GCL Series output modules
GCL-TR2C1	GCL Series output modules
GCL-TR4A	GCL Series output modules
GCL-TR4A1	GCL Series output modules
GCL-TR4B	GCL Series output modules
GCL-TR4C	GCL Series output modules
GCL-TR4C1	GCL Series output modules
GDL Series	Programmable controllers, open-type
GDL-D22A	GDL Series input modules
GDL-D22C	GDL Series input modules
GDL-D24A	GDL Series input modules
GDL-D24C	GDL Series input modules
GDL-DT4A	GDL Series input/output modules
GDL-DT4A1	GDL Series input/output modules
GDL-DT4B	GDL Series input/output modules
GDL-DT4C	GDL Series input/output modules
GDL-DT4C1	GDL Series input/output modules
GDL-RY2A	GDL Series output modules
GDL-RY2C	GDL Series output modules
GDL-TR2A	GDL Series output modules
GDL-TR2A1	GDL Series output modules
GDL-TR2B	GDL Series output modules
GDL-TR2C	GDL Series output modules
GDL-TR2C1	GDL Series output modules
GDL-TR4A	GDL Series output modules
GDL-TR4A1	GDL Series output modules



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GDL-TR4B	GDL Series output modules
GDL-TR4C	GDL Series output modules
GDL-TR4C1	GDL Series output modules
GEL-AC8C	Open type, Programmable controllers
GEL-AV8C	Open type, Programmable controllers
GEL-D24C	Open type, Programmable controllers
GEL-DC4C	Open type, Programmable controllers
GEL-DV4C	Open type, Programmable controllers
GEL-RY2C	Open type, Programmable controllers
GPL Series	Programmable controllers, open-type
GPL-AC8C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-AV8C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-D22A	GPL Series input modules
GPL-D22C	GPL Series input modules
GPL-D24A	GPL Series input modules
GPL-D24C	GPL Series input modules
GPL-DC4C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-DT4A	GPL Series input/output modules
GPL-DT4A1	GPL Series input/output modules
GPL-DT4B	GPL Series input/output modules
GPL-DT4C	GPL Series input/output modules
GPL-DT4C1	GPL Series input/output modules
GPL-DV4C	GPL Series analog-to-digital/digital-to-analog conversion modules
GPL-RY2A	GPL Series output modules
GPL-RY2C	GPL Series output modules
GPL-TR2A	GPL Series output modules
GPL-TR2A1	GPL Series output modules
GPL-TR2B	GPL Series output modules
GPL-TR2C	GPL Series output modules
GPL-TR2C1	GPL Series output modules
GPL-TR4A	GPL Series output modules
GPL-TR4A1	GPL Series output modules
GPL-TR4B	GPL Series output modules
GPL-TR4C	GPL Series output modules
GPL-TR4C1	GPL Series output modules
GRL Series	Programmable controllers, open-type
GRL-D22A	GRL Series input modules
GRL-D22C	GRL Series input modules
GRL-D24A	GRL Series input modules
GRL-D24C	GRL Series input modules
GRL-DT4A	GRL Series input/output modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-90102002-1
 Report Reference E124950-20020109
 Date 9-Nov-2022

GRL-DT4C	GRL Series input/output modules
GRL-DT4C1	GRL Series input/output modules
GRL-RY2A	GRL Series output modules
GRL-RY2C	GRL Series output modules
GRL-TR2A	GRL Series output modules
GRL-TR2C	GRL Series output modules
GRL-TR2C1	GRL Series output modules
GRL-TR4A	GRL Series output modules
GRL-TR4C	GRL Series output modules
GRL-TR4C1	GRL Series output modules
GSL Series	Programmable controllers, open-type
GSL-D22A	GSL Series input modules
GSL-D22C	GSL Series input modules
GSL-D24A	GSL Series input modules
GSL-D24C	GSL Series input modules
GSL-DT4A	GSL Series input/output modules
GSL-DT4C	GSL Series input/output modules
GSL-DT4C1	GSL Series input/output modules
GSL-RY2A	GSL Series output modules
GSL-RY2C	GSL Series output modules
GSL-TR2A	GSL Series output modules
GSL-TR2C	GSL Series output modules
GSL-TR2C1	GSL Series output modules
GSL-TR4A	GSL Series output modules
GSL-TR4C	GSL Series output modules
GSL-TR4C1	GSL Series output modules
XDL Series	Programmable controllers, open-type
XDL-BSSA	XDL Series smart I/O adaptors
XEL-BSSA	XEL Series smart I/O adaptors
XEL-BSSB	XEL Series smart I/O adaptors
XPL Series	Programmable controllers, open-type
XPL-BSSA	XPL Series smart I/O adaptors
XRL-BSSA	XRL Series smart I/O adaptors

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20031105
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS
Refer to Addendum Page for Models/Product.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
Control Equipment.

Additional Information:

See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20031105
Issue Date 2020-APRIL-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models/Product

USL, CNL – Open-Type Programmable Logic Controllers, GM7U and K120S Series.

Model numbers are as follows:

K7M-DR10UE, K7M-DR10UE(W), K7M-DR14UE, K7M-DR14UE(W), K7M-DR20UE, K7M-DR30UE, K7M-DR10U, K7M-DR14U, K7M-DT10U, K7M-DT14U, K7M-DR20U, K7M-DR30U, K7M-DR20U(W), K7M-DR30U(W), K7M-DR20UE(W), K7M-DR30UE(W), K7M-DR40U, K7M-DR40U(W), K7M-DR60U, K7M-DR60U(W), K7M-DRT20U, K7M-DRT30U, K7M-DRT40U, K7M-DRT60U, K7M-DT20U, K7M-DT30U, K7M-DT40U, K7M-DT60U.

K7M-DR10UE/DC, K7M-DR14UE/DC, K7M-DR20UE/DC, K7M-DR30UE/DC, K7M-DR20U/DC, K7M-DR30U/DC, K7M-DR40U/DC, K7M-DR60U/DC, K7M-DRT20U/DC, K7M-DRT30U/DC, K7M-DRT40U/DC, K7M-DRT60U/DC, K7M-DT20U/DC, K7M-DT30U/DC, K7M-DT40U/DC, K7M-DT60U/DC.

G7M-DR20U, G7M-DR30U, G7M-DR40U, G7M-DR60U, G7M-DRT20U(N), G7M-DRT30U(N), G7M-DRT40U(N), G7M-DRT60U(N), G7M-DT20U(N), G7M-DT30U(N), G7M-DT40U(N), G7M-DT60U(N), G7M-DT20U(P), G7M-DT30U(P), G7M-DT40U(P), G7M-DT60U(P).

G7M-DR20U/DC, G7M-DR30U/DC, G7M-DR40U/DC, G7M-DR60U/DC, G7M-DRT20U(N)/DC, G7M-DRT30U(N)/DC, G7M-DRT40U(N)/DC, G7M-DRT60U(N)/DC, G7M-DT20U(N)/DC, G7M-DT30U(N)/DC, G7M-DT40U(N)/DC, G7M-DT60U(N)/DC, G7M-DT20U(P)/DC, G7M-DT30U(P)/DC, G7M-DT40U(P)/DC, G7M-DT60U(P)/DC.

Rated Temperature for all models is 55 °C “surrounding air”.



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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20041210
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS
USL, CNL – Monitoring Units of Programmable controller,
XGT Panel Series.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
Control Equipment.

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

Issued to: LS ELECTRIC Co Ltd
CHEONAN PLANT 56
56 SAMSEONG4-GIL CHEONAN, Chungcheongnam-do
31226
Republic of Korea

**This is to certify that
representative samples of**

NRAQ - Programmable Controllers
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508, 17th Ed., Revision Date: 2013-10-16

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
XGB-E04A	XGT Series programmable logic controllers, open type, base modules
XGB-E06A	XGT Series programmable logic controllers, open type, base modules
XGB-E08A	XGT Series programmable logic controllers, open type, base modules
XGB-E12A	XGT Series programmable logic controllers, open type, base modules
XGB-M04A	XGT Series programmable logic controllers, open type, base modules
XGB-M04N	XGT Series programmable logic controllers, open type, base modules
XGB-M06A	XGT Series programmable logic controllers, open type, base modules
XGB-M06N	Programmable Controllers
XGB-M08A	XGT Series programmable logic controllers, open type, base modules
XGB-M08N	Programmable Controllers
XGB-M10A	XGT Series programmable logic controllers, open type, base modules
XGB-M10N	Programmable Controllers
XGB-M12A	XGT Series programmable logic controllers, open type, base modules
XGB-M12N	Programmable Controllers
XGF-AC4H	XGT Series programmable logic controllers, open type, other special modules
XGF-AC8A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AD16A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AD4S	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AD8A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGF-AH6A	XGT Series programmable logic controllers, open type, other special modules
XGF-AV8A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AW4S	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-DC4A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DC4H	XGT Series programmable logic controllers, open type, other special modules
XGF-DC4S	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DC8A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DL16A	XGT Series programmable logic controllers, open type, other special modules
XGF-DV4A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DV4S	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DV8A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-HD2A	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-HO2A	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-HO8A	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-M16M	XGT Series programmable logic controllers, open type, other special modules
XGF-M32E	Open-Type Programmable Logic Controllers, XGT Series , Other Special Modules
XGF-PD1A	XGT Series programmable logic controllers, open type, position modules
XGF-PD1H	XGT Series programmable logic controllers, open type, position modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGF-PD2A	XGT Series programmable logic controllers, open type, position modules
XGF-PD2H	XGT Series programmable logic controllers, open type, position modules
XGF-PD3A	XGT Series programmable logic controllers, open type, position modules
XGF-PD3H	XGT Series programmable logic controllers, open type, position modules
XGF-PD4H	XGT Series programmable logic controllers, open type, position modules
XGF-PN16B	XGT Series programmable logic controllers, open type, other special modules
XGF-PN4B	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-PN8A	XGT Series programmable logic controllers, open type, other special modules
XGF-PN8B	XGT Series programmable logic controllers, open type, communication modules
XGF-PO1A	XGT Series programmable logic controllers, open type, position modules
XGF-PO1H	XGT Series programmable logic controllers, open type, position modules
XGF-PO2A	XGT Series programmable logic controllers, open type, position modules
XGF-PO2H	XGT Series programmable logic controllers, open type, position modules
XGF-PO3A	XGT Series programmable logic controllers, open type, position modules
XGF-PO3H	XGT Series programmable logic controllers, open type, position modules
XGF-PO4H	XGT Series programmable logic controllers, open type, position modules
XGF-RD4A	XGT Series programmable logic controllers, open type, other special modules
XGF-RD4S	XGT Series programmable logic controllers, open type, other special modules
XGF-RD8A	XGT Series programmable logic controllers, open type, other special modules
XGF-SOEA	XGT Series programmable logic controllers, open type, other special modules
XGF-TC4RT	XGT Series programmable logic controllers, open type, other special modules
XGF-TC4S	XGT Series programmable logic controllers, open type, other special modules
XGF-TC4UD	XGT Series programmable logic controllers, open type, other special modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGH-DT4A	XGT Series programmable logic controllers, open type, output modules
XGI-A12A	XGT Series programmable logic controllers, open type, input modules
XGI-A21A	XGT Series programmable logic controllers, open type, input modules
XGI-A21C	XGT Series programmable logic controllers, open type, input modules
XGI-CPUE	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUH	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUS	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUU	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUU/D	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUUN	XGT Series programmable logic controllers, open type, CPU modules
XGI-D21A	XGT Series programmable logic controllers, open type, input modules
XGI-D21D	XGT Series programmable logic controllers, open type, input modules
XGI-D22A	XGT Series programmable logic controllers, open type, input modules
XGI-D22B	XGT Series programmable logic controllers, open type, input modules
XGI-D24A	XGT Series programmable logic controllers, open type, input modules
XGI-D24B	XGT Series programmable logic controllers, open type, input modules
XGI-D28A	XGT Series programmable logic controllers, open type, input modules
XGI-D28B	XGT Series programmable logic controllers, open type, input modules
XGK-CPUA	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUE	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUH	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUHN	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUS	XGT Series programmable logic controllers, open type, CPU modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
 Report Reference E124950-20060301
 Date 19-Sep-2022

XGK-CPUSN	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUU	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUUN	XGT Series programmable logic controllers, open type, CPU modules
XGL-BIPT	XGT Series programmable logic controllers, open type, communication modules
XGL-C22A	XGT Series programmable logic controllers, open type, communication modules
XGL-C22B	XGT Series programmable logic controllers, open type, communication modules
XGL-C42A	XGT Series programmable logic controllers, open type, communication modules
XGL-C42B	XGT Series programmable logic controllers, open type, communication modules
XGL-CH2A	XGT Series programmable logic controllers, open type, communication modules
XGL-CH2B	XGT Series programmable logic controllers, open type, communication modules
XGL-DMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-DMEB	XGT Series programmable logic controllers, open type, CPU modules
XGL-EDMF	XGT Series programmable logic controllers, open type, communication modules
XGL-EDMT	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMF	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMFB	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMHB, XGL-DBDT, XGL-DBDF, XGL-DBDH	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMT	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMTB	XGT Series programmable logic controllers, open type, communication modules
XGL-EH5T	XGT Series programmable logic controllers, open type, communication modules
XGL-EIMF	XGT Series programmable logic controllers, open type, communication modules
XGL-EIMH	XGT Series programmable logic controllers, open type, communication modules
XGL-EIMT	XGT Series programmable logic controllers, open type, communication modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGL-EIPT	XGT Series programmable logic controllers, open type, communication modules
XGL-ES4T	XGT Series programmable logic controllers, open type, communication modules
XGL-ESHF	XGT Series programmable logic controllers, open type, communication modules
XGL-FMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-PMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-PMEB	XGT Series programmable logic controllers, open type, CPU modules
XGL-PMEC	XGT Series programmable logic controllers, open type, communication modules
XGL-PSEA	XGT Series programmable logic controllers, open type, communication modules
XGL-PSRA	XGT Series programmable logic controllers, open type, communication modules
XGL-RMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-RMEB	XGT Series programmable logic controllers, open type, communication modules
XGP-AC23	XGT Series programmable logic controllers, open type, SMPS modules
XGP-ACF1	XGT Series programmable logic controllers, open type, SMPS modules
XGP-ACF2	XGT Series programmable logic controllers, open type, SMPS modules
XGP-DC42	XGT Series programmable logic controllers, open type, SMPS modules
XGQ-RY1A	XGT Series programmable logic controllers, open type, output modules
XGQ-RY1D	XGT Series programmable logic controllers, open type, output modules
XGQ-RY2A	XGT Series programmable logic controllers, open type, output modules
XGQ-RY2B	XGT Series programmable logic controllers, open type, output modules
XGQ-SS2A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR1C	XGT Series programmable logic controllers, open type, output modules
XGQ-TR2A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR2B	XGT Series programmable logic controllers, open type, output modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGQ-TR4A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR4B	XGT Series programmable logic controllers, open type, output modules
XGQ-TR8A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR8B	XGT Series programmable logic controllers, open type, output modules
XGR-AC12	XGT Series programmable logic controllers, open type, SMPS modules
XGR-AC13	XGT Series programmable logic controllers, open type, SMPS modules
XGR-AC22	XGT Series programmable logic controllers, open type, SMPS modules
XGR-AC23	XGT Series programmable logic controllers, open type, SMPS modules
XGR-CPUH/F	XGT Series programmable logic controllers, open type, CPU modules
XGR-CPUH/S	Open-Type Programmable Logic Controllers, XGT Series, CPU Modules
XGR-CPUH/T	XGT Series programmable logic controllers, open type, CPU modules
XGR-DBDF	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBDFS	Open-Type Programmable Logic Controllers, XGT Series, Redundant Extension Driver Modules
XGR-DBDH	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBDHS	Open-Type Programmable Logic Controllers, XGT Series, Redundant Extension Driver Modules
XGR-DBDT	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBSF	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBSFS	Open-Type Programmable Logic Controllers, XGT Series, Redundant Extension Driver Modules
XGR-DBSH	XGT Series programmable logic controllers, open type, redundant extension driver modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L124950-11-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGR-DBSHS	Open-Type Programmable Logic Controllers, XGT Series , Redundant Extension Driver Modules
XGR-DBST	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DC42	XGT Series programmable logic controllers, open type, SMPS modules
XGR-E12H	XGT Series programmable logic controllers, open type, base modules
XGR-E12P	XGT Series programmable logic controllers, open type, base modules
XGR-INCF	XGT Series programmable logic controllers, open type, CPU modules
XGR-INCT	XGT Series programmable logic controllers, open type, CPU modules
XGR-M02P	XGT Series programmable logic controllers, open type, base modules
XGR-M06P	XGT Series programmable logic controllers, open type, base modules
XGS-CPU01A	XGT Series programmable logic controllers, open type, high speed counter modules
XGS-DI08A	XGT Series programmable logic controllers, open type, high speed counter modules
XGS-DIO84A	XGT Series programmable logic controllers, open type, high speed counter modules
XGT Series	Programmable logic controllers, open type
XGT-DMMA	XGT Series programmable logic controllers, open type, dummy modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

Issued to: LS ELECTRIC Co Ltd
CHEONAN PLANT 56
56 SAMSEONG4-GIL CHEONAN, Chungcheongnam-do
31226
Republic of Korea

**This is to certify that
representative samples of**

NRAQ7 - Programmable Controllers Certified for Canada
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: CSA C22.2 NO. 142-M1987, 3rd Ed., Issue Date: 1987-05-01, Revision Date: 1990-09-01

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
XGB-E04A	XGT Series programmable logic controllers, open type, base modules
XGB-E06A	XGT Series programmable logic controllers, open type, base modules
XGB-E08A	XGT Series programmable logic controllers, open type, base modules
XGB-E12A	XGT Series programmable logic controllers, open type, base modules
XGB-M04A	XGT Series programmable logic controllers, open type, base modules
XGB-M04N	XGT Series programmable logic controllers, open type, base modules
XGB-M06A	XGT Series programmable logic controllers, open type, base modules
XGB-M06N	Programmable Controllers
XGB-M08A	XGT Series programmable logic controllers, open type, base modules
XGB-M08N	Programmable Controllers
XGB-M10A	XGT Series programmable logic controllers, open type, base modules
XGB-M10N	Programmable Controllers
XGB-M12A	XGT Series programmable logic controllers, open type, base modules
XGB-M12N	Programmable Controllers
XGF-AC4H	XGT Series programmable logic controllers, open type, other special modules
XGF-AC8A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AD16A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AD4S	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AD8A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGF-AH6A	XGT Series programmable logic controllers, open type, other special modules
XGF-AV8A	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-AW4S	XGT Series programmable logic controllers, open type, analog-to-digital conversion modules
XGF-DC4A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DC4H	XGT Series programmable logic controllers, open type, other special modules
XGF-DC4S	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DC8A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DL16A	XGT Series programmable logic controllers, open type, other special modules
XGF-DV4A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DV4S	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-DV8A	XGT Series programmable logic controllers, open type, digital-to-analog conversion modules
XGF-HD2A	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-HO2A	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-HO8A	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-M16M	XGT Series programmable logic controllers, open type, other special modules
XGF-M32E	Open-Type Programmable Logic Controllers, XGT Series , Other Special Modules
XGF-PD1A	XGT Series programmable logic controllers, open type, position modules
XGF-PD1H	XGT Series programmable logic controllers, open type, position modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGF-PD2A	XGT Series programmable logic controllers, open type, position modules
XGF-PD2H	XGT Series programmable logic controllers, open type, position modules
XGF-PD3A	XGT Series programmable logic controllers, open type, position modules
XGF-PD3H	XGT Series programmable logic controllers, open type, position modules
XGF-PD4H	XGT Series programmable logic controllers, open type, position modules
XGF-PN16B	XGT Series programmable logic controllers, open type, other special modules
XGF-PN4B	XGT Series programmable logic controllers, open type, high speed counter modules
XGF-PN8A	XGT Series programmable logic controllers, open type, other special modules
XGF-PN8B	XGT Series programmable logic controllers, open type, communication modules
XGF-PO1A	XGT Series programmable logic controllers, open type, position modules
XGF-PO1H	XGT Series programmable logic controllers, open type, position modules
XGF-PO2A	XGT Series programmable logic controllers, open type, position modules
XGF-PO2H	XGT Series programmable logic controllers, open type, position modules
XGF-PO3A	XGT Series programmable logic controllers, open type, position modules
XGF-PO3H	XGT Series programmable logic controllers, open type, position modules
XGF-PO4H	XGT Series programmable logic controllers, open type, position modules
XGF-RD4A	XGT Series programmable logic controllers, open type, other special modules
XGF-RD4S	XGT Series programmable logic controllers, open type, other special modules
XGF-RD8A	XGT Series programmable logic controllers, open type, other special modules
XGF-SOEA	XGT Series programmable logic controllers, open type, other special modules
XGF-TC4RT	XGT Series programmable logic controllers, open type, other special modules
XGF-TC4S	XGT Series programmable logic controllers, open type, other special modules
XGF-TC4UD	XGT Series programmable logic controllers, open type, other special modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGH-DT4A	XGT Series programmable logic controllers, open type, output modules
XGI-A12A	XGT Series programmable logic controllers, open type, input modules
XGI-A21A	XGT Series programmable logic controllers, open type, input modules
XGI-A21C	XGT Series programmable logic controllers, open type, input modules
XGI-CPUE	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUH	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUS	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUU	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUU/D	XGT Series programmable logic controllers, open type, CPU modules
XGI-CPUUN	XGT Series programmable logic controllers, open type, CPU modules
XGI-D21A	XGT Series programmable logic controllers, open type, input modules
XGI-D21D	XGT Series programmable logic controllers, open type, input modules
XGI-D22A	XGT Series programmable logic controllers, open type, input modules
XGI-D22B	XGT Series programmable logic controllers, open type, input modules
XGI-D24A	XGT Series programmable logic controllers, open type, input modules
XGI-D24B	XGT Series programmable logic controllers, open type, input modules
XGI-D28A	XGT Series programmable logic controllers, open type, input modules
XGI-D28B	XGT Series programmable logic controllers, open type, input modules
XGK-CPUA	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUE	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUH	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUHN	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUS	XGT Series programmable logic controllers, open type, CPU modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
 Report Reference E124950-20060301
 Date 19-Sep-2022

XGK-CPUSN	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUU	XGT Series programmable logic controllers, open type, CPU modules
XGK-CPUUN	XGT Series programmable logic controllers, open type, CPU modules
XGL-BIPT	XGT Series programmable logic controllers, open type, communication modules
XGL-C22A	XGT Series programmable logic controllers, open type, communication modules
XGL-C22B	XGT Series programmable logic controllers, open type, communication modules
XGL-C42A	XGT Series programmable logic controllers, open type, communication modules
XGL-C42B	XGT Series programmable logic controllers, open type, communication modules
XGL-CH2A	XGT Series programmable logic controllers, open type, communication modules
XGL-CH2B	XGT Series programmable logic controllers, open type, communication modules
XGL-DMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-DMEB	XGT Series programmable logic controllers, open type, CPU modules
XGL-EDMF	XGT Series programmable logic controllers, open type, communication modules
XGL-EDMT	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMF	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMFB	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMHB, XGL-DBDT, XGL-DBDF, XGL-DBDH	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMT	XGT Series programmable logic controllers, open type, communication modules
XGL-EFMTB	XGT Series programmable logic controllers, open type, communication modules
XGL-EH5T	XGT Series programmable logic controllers, open type, communication modules
XGL-EIMF	XGT Series programmable logic controllers, open type, communication modules
XGL-EIMH	XGT Series programmable logic controllers, open type, communication modules
XGL-EIMT	XGT Series programmable logic controllers, open type, communication modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGL-EIPT	XGT Series programmable logic controllers, open type, communication modules
XGL-ES4T	XGT Series programmable logic controllers, open type, communication modules
XGL-ESHF	XGT Series programmable logic controllers, open type, communication modules
XGL-FMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-PMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-PMEB	XGT Series programmable logic controllers, open type, CPU modules
XGL-PMEC	XGT Series programmable logic controllers, open type, communication modules
XGL-PSEA	XGT Series programmable logic controllers, open type, communication modules
XGL-PSRA	XGT Series programmable logic controllers, open type, communication modules
XGL-RMEA	XGT Series programmable logic controllers, open type, communication modules
XGL-RMEB	XGT Series programmable logic controllers, open type, communication modules
XGP-AC23	XGT Series programmable logic controllers, open type, SMPS modules
XGP-ACF1	XGT Series programmable logic controllers, open type, SMPS modules
XGP-ACF2	XGT Series programmable logic controllers, open type, SMPS modules
XGP-DC42	XGT Series programmable logic controllers, open type, SMPS modules
XGQ-RY1A	XGT Series programmable logic controllers, open type, output modules
XGQ-RY1D	XGT Series programmable logic controllers, open type, output modules
XGQ-RY2A	XGT Series programmable logic controllers, open type, output modules
XGQ-RY2B	XGT Series programmable logic controllers, open type, output modules
XGQ-SS2A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR1C	XGT Series programmable logic controllers, open type, output modules
XGQ-TR2A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR2B	XGT Series programmable logic controllers, open type, output modules



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGQ-TR4A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR4B	XGT Series programmable logic controllers, open type, output modules
XGQ-TR8A	XGT Series programmable logic controllers, open type, output modules
XGQ-TR8B	XGT Series programmable logic controllers, open type, output modules
XGR-AC12	XGT Series programmable logic controllers, open type, SMPS modules
XGR-AC13	XGT Series programmable logic controllers, open type, SMPS modules
XGR-AC22	XGT Series programmable logic controllers, open type, SMPS modules
XGR-AC23	XGT Series programmable logic controllers, open type, SMPS modules
XGR-CPUH/F	XGT Series programmable logic controllers, open type, CPU modules
XGR-CPUH/S	Open-Type Programmable Logic Controllers, XGT Series, CPU Modules
XGR-CPUH/T	XGT Series programmable logic controllers, open type, CPU modules
XGR-DBDF	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBDFS	Open-Type Programmable Logic Controllers, XGT Series, Redundant Extension Driver Modules
XGR-DBDH	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBDHS	Open-Type Programmable Logic Controllers, XGT Series, Redundant Extension Driver Modules
XGR-DBDT	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBSF	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DBSFS	Open-Type Programmable Logic Controllers, XGT Series, Redundant Extension Driver Modules
XGR-DBSH	XGT Series programmable logic controllers, open type, redundant extension driver modules

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L124950-41-10306002-3
Report Reference E124950-20060301
Date 19-Sep-2022

XGR-DBSHS	Open-Type Programmable Logic Controllers, XGT Series , Redundant Extension Driver Modules
XGR-DBST	XGT Series programmable logic controllers, open type, redundant extension driver modules
XGR-DC42	XGT Series programmable logic controllers, open type, SMPS modules
XGR-E12H	XGT Series programmable logic controllers, open type, base modules
XGR-E12P	XGT Series programmable logic controllers, open type, base modules
XGR-INCF	XGT Series programmable logic controllers, open type, CPU modules
XGR-INCT	XGT Series programmable logic controllers, open type, CPU modules
XGR-M02P	XGT Series programmable logic controllers, open type, base modules
XGR-M06P	XGT Series programmable logic controllers, open type, base modules
XGS-CPU01A	XGT Series programmable logic controllers, open type, high speed counter modules
XGS-DI08A	XGT Series programmable logic controllers, open type, high speed counter modules
XGS-DIO84A	XGT Series programmable logic controllers, open type, high speed counter modules
XGT Series	Programmable logic controllers, open type
XGT-DMMA	XGT Series programmable logic controllers, open type, dummy modules



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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20060627
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS
USL, CNL – Open-Type Programmable Logic Controllers,
XGB Series.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
Control Equipment.

Additional Information:

See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20111006
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS

USL, CNL – Open-Type Programmable Logic Controllers,
Models XBC-DR40SU, XBC-DN40SU, XBC-DN60SU, XBC-
DR60SU, XEC-DR40SU, XEC-DN40SU, XEC-DN60SU,
XEC-DR60SU, XBC-DP40SU, XBC-DP60SU, XEC-
DP40SU, XEC-DP60SU, XBC-DR40EB, XBC-DR40EX,
XBC-DR60EB and XBC-DR60EX.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
Control Equipment.

Additional Information:

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CERTIFICATE OF COMPLIANCE

Certificate Number E124950
Report Reference E124950-20131218
Issue Date 2020-APRIL-18

Issued to: LS ELECTRIC Co Ltd
Cheonan Plant 56, Samseong 4-gil,
Mokcheon-eup, Dongnam-gu
Cheonan-si Chungcheongnam-do 31226 KOREA

**This certificate confirms that
representative samples of**

PROGRAMMABLE CONTROLLERS
USL, CNL - Monitoring Units of Programmable controller,
XGT Panel Series.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 508 Standard for Industrial Control Equipment,
CAN/CSA C22.2 No. 142-M1987 Standard for Process
Control Equipment.

Additional Information:

See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

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CERTIFICATE OF COMPLIANCE

Certificate Number 2015-10-01; 2015-09-14(A1); 2016-04-07(A2); 2017-04-18(A3);
2018-04-26(A4); 2021-04-29(A5); 2021-06-16(A6); 2022-10-
26(A7); -E124950

Report Reference E124950-D1000-1/A7/C0-UL

Date 2015-10-01; 2015-09-14(A1); 2016-04-07(A2); 2017-04-18(A3);
2018-04-26(A4); 2021-04-29(A5); 2021-06-16(A6); 2022-10-
26(A7);

Issued to: LS ELECTRIC CO LTD

Applicant Company: CHEONAN PLANT 56, SAMSEONG 4-GIL, MOKCHEON-EUP,
DONGNAM-GU CHEONAN-SI
CHUNGCHONGNAM-DO 31226 REPUBLIC OF KOREA

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

HMI
eXP20-TTA/DC/CERTI, eXP40-TTA/DC/CERTI, eXP60-
TTA/DC/CERTI, eXP20-TTA/DC, eXP40-TTE/DC, eXP40-
TTA/DC, eXP60-TTA/DC, eXP2-0400D, eXP2-0500D, eXP2-
0502D, eXP2-0700D, eXP2-0701D, eXP2-0702D, eXP2-1000D,
eXP2-1001D, eXP2-0400D-EX, eXP2-0500D-EX, eXP2-0700D-
EX, eXP2-0701D-EX, eXP2-1000D-EX, eXP2-1001D-EX

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
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Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/01
UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01

Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01

Additional Information:

See the UL Online Certifications Directory at www.ul.com/database for additional information.

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B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
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CERTIFICATE OF COMPLIANCE

Certificate Number 2016-10-24-E124950
Report Reference E124950-D1001-1/A0/C0-UL
Issue Date 2016-10-24

Issued to: LS ELECTRIC CO LTD
Applicant Company: CHONAN PLANT 181 SAMSUNG-RI, MOKCHON-EUP
CHONAN
CHUNGNAM 330-845 Republic of Korea

Listed Company: Same as Applicant

This is to certify that HMI
representative samples of XP30-BTA/DC, XP50-TTA/DC, XP70-TTA/DC

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2015/07/01

Additional Standards: UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/01/24
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/01/01


Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
Joseph Hosey, General Manager, Director of Sales – Canada, UNDERWRITERS LABORATORIES OF CANADA INC.

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Additional Information:

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Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

B. Mahoney *John H. Husey*

Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
Joseph Husey, General Manager, Director of Sales – Canada, UNDERWRITERS LABORATORIES OF CANADA INC.

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CERTIFICATE OF COMPLIANCE

Certificate Number 2016-11-9;
2017-09-29(A1C0);
2018-07-23(A2C0);
2018-10-29(A3C0);
2020-02-27(A4C0);
2022-06-23(A5C0);-E124950

Report Reference E124950-D1002-1/A5/C0-UL
Date 2016-11-9;
2017-09-29(A1C0);
2018-07-23(A2C0);
2018-10-29(A3C0);
2020-02-27(A4C0);
2022-06-23(A5C0);

Issued to: LS ELECTRIC Co Ltd
Applicant Company: CHEONAN PLANT, 56 SAMSEONG4-GIL, CHEONAN
Chungcheongnam-do 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Open-Type Programmable Logic Controllers
XGB Series, Models XBM-DN32H, XBM-DN32HP, XBM-
DN32H2, XEM-DN32H2, XEM-DN32HP, XBE-AC08A, XBM-
DP32HP, XBM-DP32H2, XEM-DP32HP and XEM-DP32H2

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016


Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1- Issue Date 2014/02/01

Additional Information:

See the UL Online Certifications Directory at
www.ul.com/database for additional information.

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Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2017-3-29(Original); 2018-12-12(Amendment 1); 2019-04-03(Amendment 2); 2020-02-27(Amendment 3); 2020-12-22(Amendment 4)-E124950

Report Reference E124950-D1003-1/A4/C0-UL

Date 2017-3-29(Original); 2018-12-12(Amendment 1); 2019-04-03(Amendment 2); 2020-02-27(Amendment 3); 2020-12-22(Amendment 4)

Issued to: LS ELECTRIC CO LTD

Applicant Company: CHONAN PLANT 181 SAMSUNG-RI, MOKCHON-EUP
CHONAN
CHUNGNAM 330-845 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Standalone Motion Controller

XGT Series, Models XMC-E32A, XMC-E32C, XMC-E16A, XMC-E08A, XMC-E32A/DC, XMC-E32C/DC, XMC-E16A/DC, XMC-E08A/DC, LSMMT-E32A and LSMMT-E32C

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29

CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date APRIL 2016

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1- Issue Date 2014/02/01

Additional Information:

See the UL Online Certifications Directory at
www.ul.com/database for additional information.

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Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2017-10-27-E124950
Report Reference E124950-D1004-1/A0/C0-UL
Issue Date 2017-10-27

Issued to: LS ELECTRIC CO LTD
Applicant Company: CHONAN PLANT 181 SAMSUNG-RI, MOKCHON-EUP
CHONAN
CHUNGNAM 330-845 Republic of Korea
Listed Company: Same as Applicant

This is to certify that HMI
representative samples of eXP30-TTA/DC, eXP30-TTE/DC

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
Joseph Hosey, General Manager, Director of Sales – Canada, UNDERWRITERS LABORATORIES OF CANADA INC.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL
Customer Service Representative www.ul.com/contactus



Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/01/01

Additional Information:

See the UL Online Certifications Directory at
www.ul.com/database for additional information.

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested
according to the current UL requirements.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
Joseph Hosey, General Manager, Director of Sales – Canada, UNDERWRITERS LABORATORIES OF CANADA INC.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL
Customer Service Representative www.ul.com/contactus



CERTIFICATE OF COMPLIANCE

Certificate Number 2018-02-26; 2022-10-26(A1);-E124950
Report Reference E124950-D1005-1/A1/C0-UL
Date 2018-02-26; 2022-10-26(A1);

Issued to: LS ELECTRIC CO LTD
Applicant Company: CHEONAN PLANT 56, SAMSEONG 4-GIL, MOKCHEON-EUP,
DONGNAM-GU CHEONAN-SI
CHUNGCHONGNAM-DO 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

HMI
iXP2-08xxA, iXP2-10xxA, iXP2-12xxA, iXP2-15xxA, iXP2-08xxD,
iXP2-10xxD, iXP2-12xxD, iXP2-15xxD (x : 0 or 1)

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

B. Mahlen

Bruce Mahlenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016
UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/01/01

Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/01/01

Additional Information:

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Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2018-11-22 (Original); 2019-10-25(A1); 2021-06-28(A2);
2023-02-28(C1);-E124950

Report Reference E124950-D1006-1/A2/C1-UL

Date 2018-11-22 (Original); 2019-10-25(A1); 2021-06-28(A2);
2023-02-28(C1);

Issued to: LS ELECTRIC Co Ltd
Applicant Company: CHEONAN PLANT, 56 SAMSEONG4-GIL, CHEONAN
Chungcheongnam-do 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Smart I/O Adaptor

Smart I/O Series, Model XEL-BSSCT, XEL-BSSRT, XEL-
BSSRF, XEL-BSSRH, XEL-BSSRT,HKMC

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date APRIL 2016

Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1- Issue Date 2014/02/01


Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2019-08-30 (Original) ;
2023-02-28 (C1) ; -E124950
Report Reference E124950-D1007-1/A0/C1-UL
Date 2019-08-30 (Original) ;
2023-02-28 (C1) ;

Issued to: LS ELECTRIC Co Ltd
Applicant Company: CHEONAN PLANT, 56 SAMSEONG4-GIL, CHEONAN
Chungcheongnam-do 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Open-Type Programmable Logic Controllers
Model GOL-RR8T

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016

Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT
- Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01


Bruce Mahrenholz, Director North American Certification Program
UL LLC

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Additional Information:

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UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2020-04-24 (Original) ;
2023-02-28 (C1) ; -E124950
Report Reference E124950-D1008-1/A0/C1-UL
Date 2020-04-24 (Original) ;
2023-02-28 (C1) ;

Issued to: LS ELECTRIC Co Ltd
Applicant Company: CHEONAN PLANT, 56 SAMSEONG4-GIL, CHEONAN
Chungcheongnam-do 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Open-Type Programmable Logic Controllers
Models XBF-DC04D, XBF-DV04D and XBF-AD04D

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016

Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT
- Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01


Bruce Mahrenholz, Director North American Certification Program
UL LLC

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UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2020-06-30 (Original);
2022-06-29(Amendment 1);
2022-10-28(Amendment 2);
2023-02-28(Correction 1);-E124950

Report Reference E124950-D1009-1/A2/C1-UL
Date 2020-06-30 (Original);
2022-06-29(Amendment 1);
2022-10-28(Amendment 2);
2023-02-28(Correction 1);

Issued to: LS ELECTRIC Co Ltd
Applicant Company: CHONAN PLANT, 56 SAMSEONG4-GIL
CHEONAN, Chungcheongnam-do 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Open-Type Programmable Logic Controllers
Smart I/O Series, Models GEL-TR4C, GEL-DT4C, GEL-TR4C1,
GEL-DT4C1

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016


Bruce Mahrenholz, Director North American Certification Program
UL LLC

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Additional Standards:

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CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT
- Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01

Additional Information:

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Look for the UL Certification Mark on the product.

B. Mahlenz

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2022-10-31 (Original);-E124950

Report Reference E124950-D1010-1/A0/C0-UL

Date 2022-10-31 (Original);

Issued to: LS ELECTRIC Co Ltd
Applicant Company: CHONAN PLANT, 56 SAMSEONG4-GIL
CHEONAN, Chungcheongnam-do 31226 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Industrial computer

Panel mounted type display unit, LXP-D followed by 12, followed by 0 or 1, followed by 0 or 1, followed by -, followed by EXP, MR, EX, G3 or blank

Open type main unit, LXP-M followed by 0 or 1, followed by 0 or 1, followed by D, followed by -, followed by EXP, MR, EX, G3 or blank

Open type accessory option unit, LXP-OM followed by 32GB or 64GB, followed by G3 or blank

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29

CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT
- Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01

Additional Information:

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B. Mahlen

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2019-11-28 (Original)
2020-02-25 (Amendment)-E124950
Report Reference E124950-D2000-1/A1/C0-UL
Issue Date 2019-11-28 (Original)
2020-02-25 (Amendment)

Issued to: LS ELECTRIC CO LTD
Applicant Company: CHONAN PLANT 181 SAMSUNG-RI, MOKCHON-EUP
CHONAN
CHUNGNAM 330-845 Republic of Korea

Listed Company: Same as Applicant

This is to certify that Open-Type Programmable Logic Controllers
representative samples of Model XOL-ES4T

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
Joseph Hosey, General Manager, Director of Sales – Canada, UNDERWRITERS LABORATORIES OF CANADA INC.



Helena Y. Wolf, Director, Global Market Access Operations, UL LLC

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Standard(s) for Safety:

UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT - Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01

Additional Standards:

UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT - Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - PART 2-201: PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01

Additional Information:

See the UL Online Certifications Directory at www.ul.com/database for additional information.

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
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CERTIFICATE OF COMPLIANCE

Certificate Number 2019-11-28 (Original)
2020-02-24 (Amendment)-E124950
Report Reference E124950-D2001-1/A1/C0-UL
Issue Date 2019-11-28 (Original)
2020-02-24 (Amendment)

Issued to: LS ELECTRIC CO LTD
Applicant Company: CHONAN PLANT 181 SAMSUNG-RI, MOKCHON-EUP
CHONAN
CHUNGNAM 330-845 Republic of Korea
Listed Company: Same as Applicant

This is to certify that Open-Type Programmable Logic Controllers
representative samples of Model XOL-ES4H

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61010-1 SAFETY REQUIREMENTS FOR ELECTRICAL
EQUIPMENT FOR MEASUREMENT, CONTROL, AND
LABORATORY USE - PART 1: GENERAL REQUIREMENTS-
Edition 3 - Revision Date 2016/04/29
CSA C22.2 NO. 61010-1-12 SAFETY REQUIREMENTS FOR
ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL,
AND LABORATORY USE. PT. 1, GENERAL REQUIREMENTS-
Edition 3 - Revision Date April, 2016

Additional Standards: UL 61010-2-201 STANDARD FOR SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT
- Edition 1 - Revision Date 2017/02/20
CSA C22.2 NO. 61010-2-201:14 SAFETY REQUIREMENTS
FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL, AND LABORATORY USE - PART 2-201:
PARTICULAR REQUIREMENTS FOR CONTROL EQUIPMENT-
Edition 1 - Issue Date 2014/02/01



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
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Helena Y. Wolf, Director, Global Market Access Operations, UL LLC

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Additional Information:

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Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services, UL LLC
Joseph Hosey, General Manager, Director of Sales – Canada, UNDERWRITERS LABORATORIES OF CANADA INC.



Helena Y. Wolf, Director, Global Market Access Operations, UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 2022-02-16-E124950
Report Reference E124950-D2002-1/A0/C0-UL
Date 2022-02-16

Issued to: Ls Electric Co Ltd
Applicant Company: CHONAN PLANT 181 SAMSUNG-RI, MOKCHON-EUP
CHONAN
CHUNGNAM 330-845 Republic of Korea

Listed Company: Same as Applicant

**This is to certify that
representative samples of**

Open-Type Programmable Logic Controllers
Model XGL-DSEB

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61010-1, 3rd Edition, May 11, 2012, Revised July 19, 2019,
CAN/CSA-C22.2 No. 61010-1-12, 3rd Edition, Amendment
1:2018, Revision dated July 19, 2019

Additional Standards: UL 61010-2-201, 2nd Edition, 05/14/2018
CSA C22.2 No. 61010-2-201, 2nd Edition, February 2018

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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