



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx KIWA 19.0008X

Issue No: 0

Certificate history:

Issue No. 0 (2019-03-01)

Status: **Current**

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Date of Issue: **2019-03-01**

Applicant: **Schneider Electric Systems USA, Inc.**
38 Neponset Avenue
Foxboro, MA 02035
United States of America

Equipment: **Radar Level Transmitter, models LR54, LR64, LR74, LR65 and LR75 Free Space Radar**

Optional accessory:

Type of Protection: **d, i, t**

Marking:

Ex ia IIC T6...T* Ga/Gb
Ex ia IIIC T85 °C...T* °C Da/Db
Ex db ia IIC T6...T* Ga/Gb
Ex ia tb IIIC T85 °C...T* °C Da/Db
Ex ic IIC T6...T* Gc
Ex ic IIIC T85 °C...T* °C Dc

T* and T* °C are detailed in the equipment model codes in Annex 1

*Approved for issue on behalf of the IECEx
Certification Body:*

Paul van Nijen

Position:

Certification officer

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Kiwa Nederland B.V. (Unit Kiwa ExVision)
Wilmersdorf 50
7327 AC Apeldoorn
P.O. Box 137
The Netherlands





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Manufacturer: **Schneider Electric Systems USA, Inc.**
38 Neponset Avenue
Foxboro, MA 02035
United States of America

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[NL/KIWA/ExTR19.0008/00](#)

Quality Assessment Report:

[US/FMG/QAR06.0002/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Radar Level Transmitter, models LR54, LR64, LR74, LR65 and LR75 Free Space Radar (detailed model codes are given in Annex 1) are used for continuous level measurement of flammable or non-flammable liquids or solid particles, granulates or powders in storage tanks, process tanks or stilling wells.

The electronics insert in the compartment which is connected to the process is in type of protection intrinsic safety "i" and the terminal compartment is in type of protection flameproof enclosures "d" and/or protection by enclosure "t" or intrinsic safety "i".

The electronics enclosure can be of aluminium or stainless steel.

Optionally, the transmitter may be provided with display and adjustment capabilities (HMI option).

Ambient temperature range: -40 °C to +75 °C (see also specific conditions of use).

The degree of protection of the transmitter is IP66/IP68 in accordance with IEC 60529.

Electrical data

Terminals +/- of apparatus in type of protection intrinsic safety "ia" or "ic", only for connection to a certified intrinsically-safe circuit with the following maximum values:

$U_i = 30 \text{ Vdc}$, $I_i = 130 \text{ mA}$, $P_i = 1 \text{ W}$, $C_i = 10 \text{ nF}$, $L_i = 0 \text{ }\mu\text{H}$

Terminals +/- of apparatus with terminal compartment in type of protection flameproof enclosures "d" and dust ignition protection by enclosure "t" with the following maximum values:

$U_N = 36 \text{ Vdc}$, $I_N = 22 \text{ mA}$, $U_m = 250 \text{ Vac}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The flameproof joints are not intended to be repaired.
- Build-up of electrostatic charge on the painted enclosure and external plastic parts shall be avoided by suitable measures.
- The stainless steel enclosure may only be used with level transmitters in type of protection intrinsic safety, Ex ia IIC.
- Refer to manuals MI 023-103 and MI 023-104 for detailed information on the relation between the ambient temperature range, process temperature range and the temperature class T* and the maximum surface temperature T* °C.

Annex:

[Annex 1_to_IECEX KIWA 19.0008X Issue 0.pdf](#)

Equipment model code

LR54 Free Space Radar

The complete type designation is as follows:

LR540abcdefghijklmnpqrst or **LR544**abcdefghijklmnpqrst or **LR549**abcdefghijklmnpqrst

The letter 'a' to 't' are replaced as a function of the ordered options detailed below (options not Ex relevant are not detailed).

- a Version
 - F: SCHNEIDER ELECTRIC
- b Regional Directives (one digit, not safety relevant)
- c Ex Approvals
 - K: IECEx Ex ia IIC T6...T* Ga/Gb + Ex ia IIIC T*°C Da/Db
 - L: IECEx Ex db ia IIC T6...T* Ga/Gb + Ex ia tb IIIC T*°C Da/Db
 - M: IECEx Ex ic IIC T6...T* Gc + Ex ic IIIC T*°C Dc
- d Industry / Safety (one digit, not safety relevant)
- e Construction (one digit, not safety relevant)
- f Converter version (Housing material / IP class)
 - 2: Compact version (Aluminium housing - IP66/IP68 0.1 barg)
 - 3: Compact version (Stainless steel housing - IP66/IP68 0.1 barg)
- g Output
 - 1: 2 wires / 4...20mA passive HART
- h Cable entry / Cable gland
 - 1: M20x1,5 / Without
 - 2: M20x1,5 / Plastic + plug
 - 3: M20x1.5 / Nickel-plated brass + plug
 - 4: M20x1.5 / Stainless Steel + plug
 - 5: M20x1.5 / M12 (4-pin connector) + plug
 - 6: M20x1.5 / 2 x Plastic
 - 7: M20x1.5 / 2 x Nickel-plated brass
 - 8: M20x1.5 / 2 x Stainless Steel
 - A: M20x1.5 / 2 x M12 (4-pin connector)
 - C: 1/2 NPT / Without
 - D: 1/2 NPT / Nickel-plated brass + plug
 - E: 1/2 NPT / Stainless Steel + plug
 - F: 1/2 NPT / 2 x Nickel-plated brass
 - G: 1/2 NPT / 2 x Stainless Steel
- i Display
 - 0: Without (No display, blind cover)
 - 4: Display -Vertical Top
- j Operating language (one digit, not safety relevant)
- k Enhanced functions (one digit, not safety relevant)
- l Process conditions / Process seal
 - 1: -1...16 barg (-14.5...232 psig) / -40°C...+130°C (-40°F...+266°F) / FKM, FPM
 - 2: -1...16 barg (-14.5...232 psig) / -50°C...+130°C (-58°F...+266°F) / EPDM
 - 3: -1...16 barg (-14.5...232 psig) / -20°C...+130°C (-4°F...+266°F) / KALREZ® 6375
- m Antennas
 - 1: 316 L / Metallic horn DN40 (1.5") TLPR
 - 2: 316 L / Metallic horn DN50 (2") TLPR
 - 3: 316 L / Metallic horn DN65 (2.5") TLPR
 - 4: 316 L / Metallic horn DN80 (3") LPR
 - 5: 316 L / Metallic horn DN100 (4") LPR
 - 6: 316 L / Metallic horn DN150 (6") LPR
 - 7: 316 L / Metallic horn DN200 (8") LPR
 - A: PP / Drop DN80 (3") LPR
 - B: PP / Drop DN100 (4") LPR
 - C: PP / Drop DN150 (6") LPR

- n Antenna extensions / Flange plate protection
- 0: Without
 - 1: 316 L / 105 mm (4") for Horn and Drop antennas
 - 2: 316 L / 210 mm (8") for Horn and Drop antennas
 - 3: 316 L / 315 mm (12") for Horn and Drop antennas
 - 4: 316 L / 420 mm (16") for Horn and Drop antennas
 - 5: 316 L / 525 mm (20") for Horn and Drop antennas
 - 6: 316 L / 630 mm (24") for Horn only
 - 7: 316 L / 735 mm (29") for Horn only
 - 8: 316 L / 840 mm (33") for Horn only
 - A: 316 L / 945 mm (37") for Horn only
 - B: 316 L / 1050 mm (41") for Horn only
 - D: Without / With flange protection
 - E: PP / 105 mm (4") for PP Drop with flange plate protection
 - F: PP / 210 mm (8") for PP Drop with flange plate protection
 - G: PP / 315 mm (12") for PP Drop with flange plate protection
 - H: PP / 420 mm (16") for PP Drop with flange plate protection
 - K: PP / 525 mm (20") for PP Drop with flange plate protection
- o Process connection size
- | | | | | | |
|----|-------|---|--------|---|------|
| F: | DN25 | - | 1" | - | 25A |
| G: | DN40 | - | 1-1/2" | - | 40A |
| H: | DN50 | - | 2" | - | 50A |
| L: | DN80 | - | 3" | - | 80A |
| M: | DN100 | - | 4" | - | 100A |
| P: | DN150 | - | 6" | - | 150A |
| R: | DN200 | - | 8" | - | 200A |
- p Process connection
- 1: 150 lbs ASME B 16.5
 - 2: 300 lbs ASME B 16.5
 - 7: 15 psig ASME B 16.5
 - A: NPT threaded - B1.20.1
 - C: PN01 EN 1092-1
 - E: PN16 EN 1092-1
 - G: PN40 EN 1092-1
 - P: GA threaded ISO228
 - U: JIS 10K B 2220
- q Process connection Sealing Face / Hygienic
- 0: Without
 - 1: Standard Type B1 EN 1092-1
 - 7: Type A EN 1092-1 (flat face)
 - A: RF ASME B 16.5 (raised face)
 - B: FF ASME B 16.5 (flat face)
 - P: RF JIS B2220 (raised face)
- r Calibration certificate (one digit, not safety relevant)
- s Options
- 0: Without
 - 2: Purging (for metallic Horn antenna only)
- t Accessories / TAG plate (one digit, not safety relevant)

Note: T*= T5 or T4, T*°C = T85°C...T100°C or T85°C...T130°C.

LR64 Free Space Radar

The complete type designation is as follows:

LR640abcdefghijklmnpqrst or **LR644**abcdefghijklmnpqrst or **LR649**abcdefghijklmnpqrst

The letter 'a' to 't' are replaced as a function of the ordered options detailed below (options not Ex relevant are not detailed).

- a Version
 - F: SCHNEIDER ELECTRIC
- b Regional Directives (one digit, not safety relevant)
- c Ex Approvals
 - K: IECEx Ex ia IIC T6...T* Ga/Gb + Ex ia IIIC T°C Da/Db
 - L: IECEx Ex db ia IIC T6...T* Ga/Gb + Ex ia tb IIIC T°C Da/Db
 - M IECEx Ex ic IIC T6...T* Gc + Ex ic IIIC T°C Dc
- d Industry / Safety (one digit, not safety relevant)
- e Construction (one digit, not safety relevant)
- f Converter version (Housing material / IP class)
 - 2: Compact version (Aluminium housing - IP66/IP68 0.1 barg)
 - 3: Compact version (Stainless steel housing - IP66/IP68 0.1 barg)
- g Output
 - 1: 2 wires / 4...20mA passive HART
- h Cable entry / Cable gland
 - 1: M20x1,5 / Without
 - 2: M20x1,5 / Plastic + plug
 - 3: M20x1.5 / Nickel-plated brass + plug
 - 4: M20x1.5 / Stainless Steel + plug
 - 5: M20x1.5 / M12 (4-pin connector) + plug
 - 6: M20x1.5 / 2 x Plastic
 - 7: M20x1.5 / 2 x Nickel-plated brass
 - 8: M20x1.5 / 2 x Stainless Steel
 - A: M20x1.5 / 2 x M12 (4-pin connector)
 - C: 1/2 NPT / Without
 - D: 1/2 NPT / Nickel-plated brass + plug
 - E: 1/2 NPT / Stainless Steel + plug
 - F: 1/2 NPT / 2 x Nickel-plated brass
 - G: 1/2 NPT / 2 x Stainless Steel
- i Display
 - 0: Without (No display, blind cover)
 - 4: Display -Vertical Top
- j Operating language (one digit, not safety relevant)
- k Enhanced functions (one digit, not safety relevant)
- l Process conditions / Process seal
 - 1: -1...16 barg (-14.5...232 psig) / -40°C...+130°C (-40°F...+266°F) / FKM, FPM
 - 2: -1...16 barg (-14.5...232 psig) / -50°C...+130°C (-58°F...+266°F) / EPDM
 - 3: -1...16 barg (-14.5...232 psig) / -20°C...+130°C (-4°F...+266°F) / KALREZ® 6375
- m Antennas
 - 0: Without
 - 4: 316 L / Metallic horn DN80 (3") LPR
 - 5: 316 L / Metallic horn DN100 (4") LPR
 - 6: 316 L / Metallic horn DN150 (6") LPR
 - 7: 316 L / Metallic horn DN200 (8") LPR
 - A: PP / Drop DN80 (3") LPR
 - B: PP / Drop DN100 (4") LPR
 - C: PP / Drop DN150 (6") LPR
 - E: PTFE / Drop DN80 (3") LPR
 - F: PTFE / Drop DN100 (4") LPR
 - G: PTFE / Drop DN150 (6") LPR
- n Antenna extensions / Flange plate protection
 - 0: Without

- 1: 316 L / 105 mm (4") for Horn and Drop antennas
- 2: 316 L / 210 mm (8") for Horn and Drop antennas
- 3: 316 L / 315 mm (12") for Horn and Drop antennas
- 4: 316 L / 420 mm (16") for Horn and Drop antennas
- 5: 316 L / 525 mm (20") for Horn and Drop antennas
- 6: 316 L / 630 mm (24") for Horn only
- 7: 316 L / 735 mm (29") for Horn only
- 8: 316 L / 840 mm (33") for Horn only
- A: 316 L / 945 mm (37") for Horn only
- B: 316 L / 1050 mm (41") for Horn only
- o Process connection size
 - 0: Without
 - F: DN25 - 1" - 25A
 - G: DN40 - 1-1/2" - 40A
 - L: DN80 - 3" - 80A
 - M: DN100 - 4" - 100A
 - P: DN150 - 6" - 150A
 - R: DN200 - 8" - 200A
- p Process connection Pressure class
 - 0: Without
 - 1: 150 lbs ASME B 16.5
 - 2: 300 lbs ASME B 16.5
 - 7: 15 psig ASME B 16.5
 - A: NPT threaded - B1.20.1
 - C: PN01 EN 1092-1
 - D: PN10 EN 1092-1
 - E: PN16 EN 1092-1
 - G: PN40 EN 1092-1
 - P: GA threaded ISO228
 - U: JIS 10K B 2220
- q Process connection Sealing Face / Hygienic
 - 0: Without
 - 1: Standard Type B1 EN 1092-1
 - 7: Type A EN 1092-1 (flat face)
 - A: RF ASME B 16.5 (raised face)
 - B: FF ASME B 16.5 (flat face)
 - P: RF JIS B2220 (raised face)
- r Calibration certificate (one digit, not safety relevant)
- s Options
 - 0: Without
 - 2: Purging (for metallic Horn antenna only)
- t Accessories / TAG plate (one digit, not safety relevant)

Note: T* = T5 or T4, T°C = T85°C...T100°C or T85°C...T130°C.

LR74 Free Space Radar

The complete type designation is as follows:

LR740abcdefghijklmnpqrst or **LR744**abcdefghijklmnpqrst or **LR749**abcdefghijklmnpqrst

The letter 'a' to 't' are replaced as a function of the ordered options detailed below (options not Ex relevant are not detailed).

- a Version
 - F: SCHNEIDER ELECTRIC
- b Regional Directives (one digit, not safety relevant)
- c Ex Approvals
 - K: IECEx Ex ia IIC T6...T3 Ga/Gb + Ex ia IIIC T°C Da/Db
 - L: IECEx Ex db ia IIC T6...T3 Ga/Gb + Ex ia tb IIIC T°C Da/Db

- M IECEx Ex ic IIC T6...T3 Gc + Ex ic IIIC T*°C Dc
- d Industry / Safety (one digit, not safety relevant)
- e Construction (one digit, not safety relevant)
- f Converter version (Housing material / IP class)
- 2: Compact version (Aluminium housing - IP66/IP68 0.1 barg)
- 3: Compact version (Stainless steel housing - IP66/IP68 0.1 barg)
- g Output 1: 2 wires / 4...20mA passive HART
- h Cable entry / Cable gland
- 1: M20x1,5 / Without
- 2: M20x1,5 / Plastic + plug
- 3: M20x1.5 / Nickel-plated brass + plug
- 4: M20x1.5 / Stainless Steel + plug
- 5: M20x1.5 / M12 (4-pin connector) + plug
- 6: M20x1.5 / 2 x Plastic
- 7: M20x1.5 / 2 x Nickel-plated brass
- 8: M20x1.5 / 2 x Stainless Steel
- A: M20x1.5 / 2 x M12 (4-pin connector)
- C: 1/2 NPT / Without
- D: 1/2 NPT / Nickel-plated brass + plug
- E: 1/2 NPT / Stainless Steel + plug
- F: 1/2 NPT / 2 x Nickel-plated brass
- G: 1/2 NPT / 2 x Stainless Steel
- i Display
- 0: Without (No display, blind cover)
- 4: Display -Vertical Top
- j Operating language (one digit, not safety relevant)
- k Enhanced functions (one digit, not safety relevant)
- l Process conditions / Process seal
- 1: -1...40 barg (-14.5...580 psig) / -40°C...+200°C (-40°F...+392°F) / FKM, FPM
- 2: -1...40 barg (-14.5...580 psig) / -50°C...+150°C (-58°F...+302°F) / EPDM
- 3: -1...40 barg (-14.5...580 psig) / -20°C...+200°C (-4°F...+392°F) / KALREZ® 6375
- 5: -1...40 barg (-14.5...580 psig) / -30°C...+200°C (-22°F...+392°F) / FKM, FPM + Metaglas®
- 6: -1...40 barg (-14.5...580 psig) / -30°C...+150°C (-22°F...+302°F) / EPDM + Metaglas®
- 7: -1...40 barg (-14.5...580 psig) / -20°C...+200°C (-4°F...+392°F) / KALREZ® 6375 + Metaglas®
- A: -1...100 barg (-14.5...1450 psig) / -40°C...+200°C (-40°F...+392°F) / FKM, FPM
- B: -1...100 barg (-14.5...1450 psig) / -50°C...+150°C (-58°F...+302°F) / EPDM
- C: -1...100 barg (-14.5...1450 psig) / -20°C...+200°C (-4°F...+392°F) / KALREZ® 6375
- E: -1...100 barg (-14.5...1450 psig) / -30°C...+200°C (-22°F...+392°F) / FKM, FPM + Metaglas®
- F: -1...100 barg (-14.5...1450 psig) / -30°C...+150°C (-22°F...+302°F) / EPDM + Metaglas®
- G: -1...100 barg (-14.5...1450 psig) / -20°C...+200°C (-4°F...+392°F) / KALREZ® 6375 + Metaglas®
- m Antennas
- 0: Without
- 1: 316 L / Metallic horn DN40 (1.5") TLPR
- 2: 316 L / Metallic horn DN50 (2") TLPR
- 3: 316 L / Metallic horn DN65 (2.5") TLPR
- 4: 316 L / Metallic horn DN80 (3") LPR
- 5: 316 L / Metallic horn DN100 (4") LPR
- 6: 316 L / Metallic horn DN150 (6") LPR
- 7: 316 L / Metallic horn DN200 (8") LPR
- E: PTFE / Drop DN80 (3") LPR
- F: PTFE / Drop DN100 (4") LPR
- G: PTFE / Drop DN150 (6") LPR
- K: PEEK / Drop DN80 (3") LPR
- L: PEEK / Drop DN100 (4") LPR

- M: PEEK / Drop DN150 (6") LPR
Y: PEEK / Hygienic antenna
- n Antenna extensions / Flange plate protection
0: Without
1: 316 L / 105 mm (4") for Horn and Drop antennas
2: 316 L / 210 mm (8") for Horn and Drop antennas
3: 316 L / 315 mm (12") for Horn and Drop antennas
4: 316 L / 420 mm (16") for Horn and Drop antennas
5: 316 L / 525 mm (20") for Horn and Drop antennas
6: 316 L / 630 mm (24") for Horn only
7: 316 L / 735 mm (29") for Horn only
8: 316 L / 840 mm (33") for Horn only
A: 316 L / 945 mm (37") for Horn only
B: 316 L / 1050 mm (41") for Horn only
D: Without / With flange protection
M: PTFE / 105 mm (4") for PTFE Drop with flange plate protection
N: PTFE / 210 mm (8") for PTFE Drop with flange plate protection
P: PTFE / 315 mm (12") for PTFE Drop with flange plate protection
S: PEEK / 105 mm (4") for PEEK Drop with flange plate protection
T: PEEK / 210 mm (8") for PEEK Drop with flange plate protection
U: PEEK / 315 mm (12") for PEEK Drop with flange plate protection
- o Process connection size
0: Without
G: DN40 - 1-1/2" - 40A
H: DN50 - 2" - 50A
L: DN80 - 3" - 80A
M: DN100 - 4" - 100A
P: DN150 - 6" - 150A
R: DN200 - 8" - 200A
- p Process connection Pressure class
0: Without
1: 150 lbs ASME B 16.5
2: 300 lbs ASME B 16.5
3: 600 lbs ASME B 16.5
4: 900 lbs ASME B 16.5
5: 1500 lbs ASME B 16.5
7: 15 psig ASME B 16.5
A: NPT threaded - B1.20.1
C: PN01 EN 1092-1
E: PN16 EN 1092-1
G: PN40 EN 1092-1
H: PN63 EN 1092-1
K: PN100 EN 1092-1
P: GA threaded ISO228
U: JIS 10K B 2220
- q Process connection Sealing Face / Hygienic
0: Without
1: Standard Type B1 EN 1092-1
2: Standard Type B2 EN 1092-1 (Roughness acc. to customer requirement)
3: Type C EN 1092-1 (tongue)
4: Type D EN 1092-1 (groove)
5: Type E EN 1092-1 (male)
6: Type F EN 1092-1 (female)
7: Type A EN 1092-1 (flat face)
A: RF ASME B 16.5 (raised face)
B: FF ASME B 16.5 (flat face)
M: RJ ASME B 16.5 (ring joint)
P: RF JIS B2220 (raised face)

- S: Triclamp ISO 2852
- T: DIN 11851
- U: SMS 1145
- V: Varivent® Type N
- W: Neumo Biocontrol®
- X: DIN 11864-1 Form A
- r Calibration certificate (one digit, not safety relevant)
- s Options
 - 0: Without
 - 1: Heating / Cooling (for metallic Horn antenna only)
 - 2: Purging (for metallic Horn antenna only)
 - 3: Heating / Cooling + purging (for metallic Horn antenna only)
- t Accessories / TAG plate (one digit, not safety relevant)

Note: T*°C = T85°C...T150°C or T85°C...T200°C

LR65 Free Space Radar

The complete type designation is as follows:

LR650abcdefghijklmnpqrst or **LR654abcdefghijklmnpqrst** or **LR659abcdefghijklmnpqrst**

The letter 'a' to 't' are replaced as a function of the ordered options detailed below (options not Ex relevant are not detailed).

- a Version
 - F: SCHNEIDER ELECTRIC
- b Regional Directives (one digit, not safety relevant)
- c Ex Approvals
 - K: IECEx Ex ia IIC T6...T3 Ga/Gb + Ex ia IIIC T*°C Da/Db
 - L: IECEx Ex db ia IIC T6...T3 Ga/Gb + Ex ia tb IIIC T*°C Da/Db
 - M: IECEx Ex ic IIC T6...T3 Gc + Ex ic IIIC T*°C Dc
- d Industry / Safety (one digit, not safety relevant)
- e Construction (one digit, not safety relevant)
- f Converter version (Housing material / IP class)
 - 2: Compact version (Aluminium housing - IP66/IP68 0.1 barg)
 - 3: Compact version (Stainless steel housing - IP66/IP68 0.1 barg)
- g Output
 - 1: 2 wires / 4...20mA passive HART
- h Cable entry / Cable gland
 - 1: M20x1,5 / Without
 - 2: M20x1,5 / Plastic + plug
 - 3: M20x1,5 / Nickel-plated brass + plug
 - 4: M20x1,5 / Stainless Steel + plug
 - 5: M20x1,5 / M12 (4-pin connector) + plug
 - 6: M20x1,5 / 2 x Plastic
 - 7: M20x1,5 / 2 x Nickel-plated brass
 - 8: M20x1,5 / 2 x Stainless Steel
 - A: M20x1,5 / 2 x M12 (4-pin connector)
 - C: 1/2 NPT / Without
 - D: 1/2 NPT / Nickel-plated brass + plug
 - E: 1/2 NPT / Stainless Steel + plug
 - F: 1/2 NPT / 2 x Nickel-plated brass
 - G: 1/2 NPT / 2 x Stainless Steel
- i Display
 - 0: Without (No display, blind cover)
 - 4: Display -Vertical Top
- j Display- documentation language (one digit, not safety relevant)
- k Enhanced functions (one digit, not safety relevant)

- l Process conditions / Process seal
 - 1: -1...40 barg (-14.5...580 psig) / -40°C...+150°C (-40°F...+302°F) / FKM, FPM
 - 2: -1...40 barg (-14.5...580 psig) / -50°C...+150°C (-58°F...+302°F) / EPDM
 - 4: -1...40 barg (-14.5...580 psig) / -40°C...+200°C (-40°F...+392°F) / FKM, FPM
- m Antennas
 - 3: PEEK / Lens DN40 (1.5") LPR
 - 4: PEEK / Lens DN70 (2.75") LPR
- n Antenna extensions
 - 0: Without
 - 1: 316 L / 112 mm (4.4") for Lens Ø 40 mm (1.5")
- o Process connection size

G:	DN40	-	1-1/2"	-	40A
H:	DN50	-	2"	-	50A
L:	DN80	-	3"	-	80A
M:	DN100	-	4"	-	100A
P:	DN150	-	6"	-	150A
R:	DN200	-	8"	-	200A
- p Process connection Pressure class
 - 1: 150 lbs ASME B 16.5
 - 2: 300 lbs ASME B 16.5
 - 7: 15 psig ASME B 16.5
 - A: NPT threaded - B1.20.1
 - C: PN01 EN 1092-1
 - D: PN10 EN 1092-1
 - E: PN16 EN 1092-1
 - G: PN40 EN 1092-1
 - P: GA threaded ISO228
 - U: JIS 10K B 2220
- q Process connection Sealing Face / Hygienic
 - 0: Without
 - 1: Standard Type B1 EN 1092-1
 - 7: Type A EN 1092-1 (flat face)
 - A: RF ASME B 16.5 (raised face)
 - B: FF ASME B 16.5 (flat face)
 - P: RF JIS B2220 (raised face)
- r Calibration certificate (one digit, not safety relevant)
- s Options
 - 0: Without
 - 2: Purging
- t Accessories / TAG plate (one digit, not safety relevant)

Note: T*°C = T85°C...T150°C or T85°C...T200°C

LR75 Free Space Radar

The complete type designation is as follows:

LR750abcdefghijklmnpqrst or **LR754**abcdefghijklmnpqrst or **LR759**abcdefghijklmnpqrst

The letter 'a' to 't' are replaced as a function of the ordered options detailed below (options not Ex relevant are not detailed).

- a Version
 - F: SCHNEIDER ELECTRIC
- b Regional Directives (one digit, not safety relevant)
- c Ex Approvals
 - K: IECEx Ex ia IIC T6...T3 Ga/Gb + Ex ia IIIC T*°C Da/Db
 - L: IECEx Ex db ia IIC T6...T3 Ga/Gb + Ex ia tb IIIC T*°C Da/Db
 - M: IECEx Ex ic IIC T6...T3 Gc + Ex ic IIIC T*°C Dc
- d Industry / Safety (one digit, not safety relevant)

- e Construction (one digit, not safety relevant)
- f Converter version (Housing material / IP class)
 - 2: Compact version (Aluminium housing - IP66/IP68 0.1 barg)
 - 3: Compact version (Stainless steel housing - IP66/IP68 0.1 barg)
- g Output
 - 1: 2 wires / 4...20mA passive HART
- h Cable entry / Cable gland
 - 1: M20x1,5 / Without
 - 2: M20x1,5 / Plastic + plug
 - 3: M20x1.5 / Nickel-plated brass + plug
 - 4: M20x1.5 / Stainless Steel + plug
 - 5: M20x1.5 / M12 (4-pin connector) + plug
 - 6: M20x1.5 / 2 x Plastic
 - 7: M20x1.5 / 2 x Nickel-plated brass
 - 8: M20x1.5 / 2 x Stainless Steel
 - A: M20x1.5 / 2 x M12 (4-pin connector)
 - C: 1/2 NPT / Without
 - D: 1/2 NPT / Nickel-plated brass + plug
 - E: 1/2 NPT / Stainless Steel + plug
 - F: 1/2 NPT / 2 x Nickel-plated brass
 - G: 1/2 NPT / 2 x Stainless Steel
- i Display
 - 0: Without (No display, blind cover)
 - 4: Display -Vertical Top
- j Display- documentation language (one digit, not safety relevant)
- k Enhanced functions (one digit, not safety relevant)
- l Process conditions / Process seal
 - 1: -1...40 barg (-14.5...580 psig) / -40°C...+150°C (-40°F...+302°F) / FKM, FPM
 - 2: -1...40 barg (-14.5...580 psig) / -50°C...+150°C (-58°F...+302°F) / EPDM
 - 3: -1...40 barg (-14.5...580 psig) / -20°C...+150°C (-4°F...+302°F) / KALREZ® 6375
 - 4: -1...40 barg (-14.5...580 psig) / -50°C...+150°C (-58°F...+302°F) / PEEK
 - 5: -1...40 barg (-14.5...580 psig) / -40°C...+200°C (-40°F...+392°F) / FKM, FPM
 - 6: -1...40 barg (-14.5...580 psig) / -20°C...+200°C (-4°F...+392°F) / KALREZ® 6375
 - 7: -1...40 barg (-14.5...580 psig) / -50°C...+200°C (-58°F...+392°F) / PEEK
- m Antennas
 - 1: PEEK / Lens DN20 (3/4") TLPR
 - 2: PEEK / Lens DN25 (1") TLPR
 - 3: PEEK / Lens DN40 (1.5") LPR
 - 4: PEEK / Lens DN70 (2.75") LPR
- n Antenna extensions
 - 0: Without
 - 1: 316 L / 112 mm (4.4") for Lens Ø 40 mm (1.5")
 - A: Without / With PEEK flange plate protection (only for lens Ø 40 mm (1.5") and DN70 (2.75"))
- o Process connection size

E:	DN20	-	3/4"	-	15A
F:	DN25	-	1"	-	25A
G:	DN40	-	1-1/2"	-	40A
H:	DN50	-	2"	-	50A
L:	DN80	-	3"	-	80A
M:	DN100	-	4"	-	100A
P:	DN150	-	6"	-	150A
R:	DN200	-	8"	-	200A
- p Process connection Pressure class
 - 1: 150 lbs ASME B 16.5
 - 2: 300 lbs ASME B 16.5
 - 7: 15 psig ASME B 16.5
 - A: NPT threaded - B1.20.1

**Annex 1 to
Certificate of Conformity IECEx KIWA 19.0008X, issue 0
and Test Report NL/KIWA/ExTR19.0008/00**



- C: PN01 EN 1092-1
- D: PN10 EN 1092-1
- E: PN16 EN 1092-1
- G: PN40 EN 1092-1
- P: GA threaded ISO228
- U: JIS 10K B 2220
- q Process connection Sealing Face / Hygienic
 - 0: Without
 - 1: Standard Type B1 EN 1092-1
 - 7: Type A EN 1092-1 (flat face)
 - A: RF ASME B 16.5 (raised face)
 - B: FF ASME B 16.5 (flat face)
 - P: RF JIS B2220 (raised face)
- r Calibration certificate (one digit, not safety relevant)
- s Options
 - 0: Without
 - 2: Purging
- t Accessories / TAG plate (one digit, not safety relevant)

Note: T*°C = T85°C...T150°C or T85°C...T200°C