Safety Instruction NRR262

Converter for Oil Leak Detector NAR300

IECEx FMG 14.0024X FM 14 ATEX 0048X



Safety Instructions for Electrical Apparatus Certified for Use in Explosion-hazardous Areas Designation according to IECEx 02 Equipment Protection Level (EPL): Installation in Non-hazardous Area Designation according to Directive 94/9/EC: Installation in Non-hazardous Area

- Equipment Group —

Hazardous Zone at Mounting Point		Catagory to	Ignition Protection Provided		
		Directive 94/9/EC	Ga	Gb	Gc
Hazard due to explosive gas-air mixture	Zone 0	1G	0	×	×
Hazard due to explosive gas-air mixture	Zone 1	2G	0	0	×
Hazard due to explosive gas-air mixture	Zone 2	3G	0	0	0

○ : Applicable ×: Not Applicable

IIB

Gb

[ia]

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Designation of Explosion Protection

- Electrical Apparatus with Explosion Protection to European Standard ot
- Type of Protection ——
- Gas Group
- Equipment Protection Level -



[Ex]

Table of Contents

1	Wiring of NRR2613
2	Guideline for Safety Use

1 Wiring of NRR261

Converter NRR262 wiring is shown as follows.

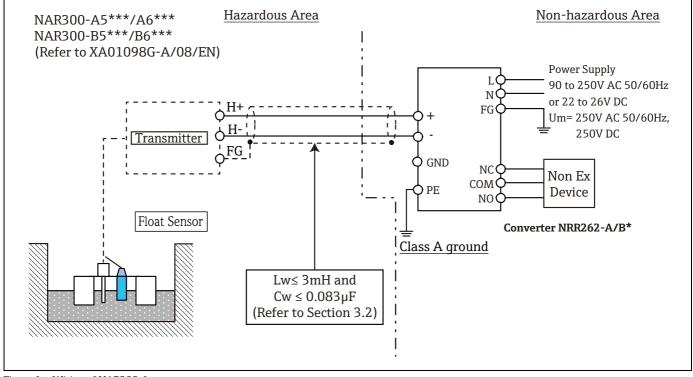


Figure 1: Wiring of NAR300-1

NOTICE

Detail of wiring are shown in Operating Instructions (BA00402G or BA00403G).

- between NAR300 system and associated equipment (NRR261 and NRR262).
- between NAR300 electronics and the sensor(s) with float.

2 Guideline for Safety Use

- 1. Ambient temperature for converter is rated for -20 to $+ 60^{\circ}$ C.
- 2. Converter NRR262 must be placed in non-hazardous area.
- 3. Ground terminal of the safety barrier must connect from class A ground terminal (PE) in the converter to class A ground at non-hazardous area.

3-1.	Combination	of NRR261	and NAR300	is shown below.
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Transmitter	NAR300-				Remarks	
Converter	A5****	A6****	B5****	B6****	- Remarks	
NRR262-A*	0	0	×	×	ATEX version	
NRR262-B*	×	×	0	0	IECEx version	

NOTICE

2

 \bigcirc : Applicable \times : Not applicable

- 3-2. Relationships between the Intrinsic safety circuit permissible Inductance (Lo) and Capacitance (Co), and the connected external wiring permissible Inductance (Lw) and Capacitance (Cw) are shown below.
 - Cw < Co 0 nF (Ci) = 0.083µF AND Lw < Lo 48µH (Li) = 3.0mH
- 3-3. The oil leak detector listed in the table below satisfy the conditions of sections 3.1 above.

Converter	Approval No.	Safety Instructions	Remarks
NAR300-A**	FM 14 ATEX 0048X		Hazardous area setting: float sensor;
NAR300-B*:	IECEx FMG 14.0024X	XA01104G-*/08/EN	Ex d ia IIB T5 Ga Transmitter: Ex ia [ia Ga] IIB T4

NOTICE

Refer to the precautionary items in related device's Safety Instructions.

- 4. Use cable for connecting the oil leak detector and converter that is rated at $>70^{\circ}$ C.
- 5. The supplied power and internal voltage of non-ex device which connected to the converter must be less than 250V AC 50/60Hz or 250V DC in normal condition and abnormal condition.
- 6. Place converter (Associated Intrinsic Safety Device), oil leak detector (Intrinsically Safe Device) and connecting wiring such as to prevent electrical interference from current or voltage induction.
- 7. Do not modify the internal parts or wiring of the devices.
- 8. Install in conformance with local laws and regulations.

NOTICE

This document should be stored with operating instructions (BA00402G or BA00403G).

IECEx	ATEX
IEC 60079-0	EN 60079-0
IEC 60079-1	EN 60079-1
IEC 60079-11	EN 60079-11

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