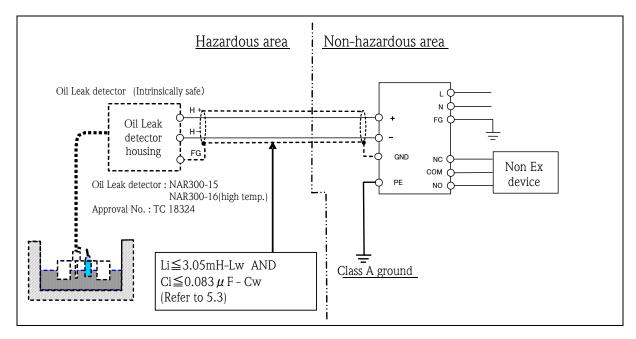


## Safety Instructions **Converter NRR262 for Oil Leak Detector** TIIS TC18326

## Safety instructions for electrical apparatus certified for use in explosion-hazardous areas.

This safety instruction manual describes precautionary items related to the certified instrument. The User should read and understand these safety instructions to ensure safe use.

 $1.Converter\ NRR261$  is described in the architecture schematic below.







- 2. Ambient temperature for the converter is rated for -20 to +60 °C.
- 3. Converter NRR262 must be placed in Non-hazardous area.
- 4. 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.
- 5. Oil Leak Detector (Intrinsic safety device) which connect to the converter must be satisfied following conditions and TIIS approved.
  - 5.1 Intrinsic safety ratings Maximum I.S. circuit voltage: ≥ 28V Maximum I.S. circuit current: ≥ 93mA Maximum I.S. circuit energy: ≥ 0.65W
  - 5.2 Type of protection / Gas group Type of protection: ia Gas Group: IIA or IIB
  - 5.3 Relationship between maximum internal Inductance (Li) and maximum internal Capacitance(Ci) and the connected external wiring permissible Inductance (Lw) and Capacitance (Cw) are as shown below.

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 \begin{array}{l} \text{Li} \leq 3.05 \text{ mH} - \text{Lw AND} \\ \text{Ci} \leq 0.083 \, \mu \, \text{F} - \text{Cw} \end{array} \end{array}
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The converters listed in the table below satisfy the conditions of sections 5.1 and 5.2 above.

Oil Leak Detector	Approval No.	Safety Instructions	Note
NAR300-15A NAR300-16A (high temp.)	TC18326	Ex572-829XJ	Hazardous area setting : Ex ia IIB T4

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

- 6. Use cable for connecting the Oil Leak Detector and converter that is rated at  $\geq$  70°C.
- 7. The supplied power and internal voltage of Non-Ex device which connected to the converter must be less than AC250V 50/60Hz or DC250V in normal condition and abnormal condition.
- 8. Place the 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.
- 9. Do not modify the internal parts or wiring of the devices.

10.Install in conformance with local laws and regulations.

\*This document should be stored together with Installation Instructions BA01027G

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