

Digi Connect[®] EZ

Hazardous Location

Class 1, Division 2,
Groups A, B, C, D

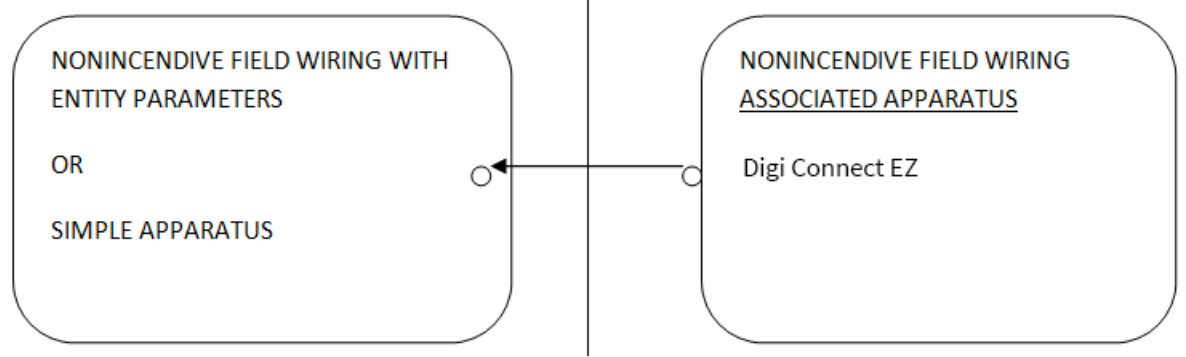
Hazardous (Classified) or Non-Hazardous Location

Class 1, Division 2,
Groups A, B, C, D

Nonincendive Field Wiring Diagram



90002470-88 A



Entity parameters for nonincendive field wiring associated apparatus

Nonincendive field wiring associated apparatus EZ - Cellular	Entity parameters
Voc	10V
Isc	200mA
Po	2W
Ca	18.7uF
La	1.9mH

Nonincendive field wiring associated apparatus EZ - Wi-Fi	Entity parameters
Voc	7.07V
Isc	142mA
Po	1W
Ca	18.7uF
La	1.9mH

Nonincendive non-boosting antenna

Selected nonincendive non-boosting antenna must be third-party listed as nonincendive safe for the application and have nonincendive safe entity parameters conforming with the values shown below.

Nonincendive field wiring apparatus Cellular		Associated nonincendive field wiring apparatus Connect EZ
V max	≥	10V
I max	≥	200mA
Pi	≥	2W
Ci + Ccable	≤	18.7uF
Li + Lcable	≤	1.9mH

Nonincendive field wiring apparatus Wi-Fi		Associated nonincendive field wiring apparatus Connect EZ
V max	≥	7.07V
I max	≥	142mA
Pi	≥	1W

Nonincendive field wiring apparatus Wi-Fi		Associated nonincendive field wiring apparatus Connect EZ
Ci + Ccable	≤	18.7uF
Li + Lcable	≤	1.9mH

This nonincendive field wiring associated apparatus may also be connected to nonincendive simple apparatus as defined in Article 504.2 and installed and temperature classified in accordance with Article 504.10(B) of the National Electrical Code (ANSI/NFPA 70), or other local codes, as applicable.

Capacitance and inductance of the field wiring from the nonincendive safe equipment to the nonincendive field wiring associated apparatus shall be calculated and must be included in the system calculations as shown in the table above. Cable capacitance, Ccable, plus nonincendive safe equipment capacitance, Ci must be less than the marked capacitance, Ca, shown on any associated apparatus used. The same applies for inductance (Lcable, Li and La). Where the cable capacitance and inductance per foot are not known, the following values shall be used: Ccable = 60 pF/ft., Lcable = 0.2 μH/ft.

Only resistive nonincendive field wiring simple apparatus (such as non-boosting antenna) shall be connected to the antenna connector.