



Division 2 and Zone 2 installation

Nonincendive Class I, Div. 2, Group A, B, C, D Hazardous Location Installation

- Installation shall be in accordance with NEC using threaded conduits or other wiring methods in accordance with Article 500 through Article 510. Intrinsic safety barrier not required. Max. supply voltage 30V. For T-code see table.
- Nonincendive Field Wiring Installation

The Nonincendive Field Wiring Circuit Concept allows interconnection of nonincendive field wiring apparatus with associated nonincendive field wiring apparatus or associated apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $V_{\text{max}} \geq V_{\text{cc}}$ or $V_1, C_{\text{c}} \text{ or } C_{\text{a}} \geq C + C_{\text{load}}$, $L_{\text{c}} \text{ or } L_{\text{a}} \geq L + L_{\text{load}}$.

Transmitter non incendive field wiring parameters for this current controlled circuit are as follows:

- $V_{\text{max}} = 30V$, $C_c \leq 13\text{nF}$, $L_{\text{c}} = 0\mu\text{H}$, I_{max} , see note 3
- For this current controlled circuit, the parameter I_{max} , is not required and need not be aligned with parameter I_{sc} .
- Or to the barrier or associated nonincendive field wiring apparatus.
- Warning: Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

Warning: Explosion hazard - substitution of components may impair suitability for Class I, Div. 2.

Class II, III installation

DIP for Class II and III, Div. 1, Group E, F, G Hazardous Location Installation

- Installation shall be in accordance with NEC using threaded conduits or other wiring methods in accordance with Article 500 through Article 510.
- Use a dust tight seal at the conduit entry.

Functional Ratings

These ratings do not supersede Hazardous Locations Values
 $V_{\text{nom}} = 14...30V$, $I_{\text{from}} = 4...20\text{mA}$

Temperature class with / without Display-V 331	Permissible maximum medium temperature at the sensors	Permissible maximum ambient (T_a) of electronic compartment	
		LUC-M10-	LUC-M20-
T6	+60°C	+60°C	+60°C
T5	+80°C	+75°C	+75°C
T4	+80°C	+80°C	+80°C

Area of application:
The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists.

Permissible ambient temperature:

Electronic: T12 enclosure with integrated surge protection (OVP) -40 ... +80 °C resp. -40 ... +176 °F

Type	Type of sensor	Operation temperature [°C resp. °F]
LUC-M10-	1½"-sensor	-40 to +80 resp. -40 to +176
LUC-M20-	2"-sensor	-40 to +80 resp. -40 to +176
LUC-M40-	3"-sensor	-40 to +80 resp. -40 to +176

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LUC-M10, LUC-M20, LUC-M40
FM control drawing (T12-OVP, IS-HART)



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