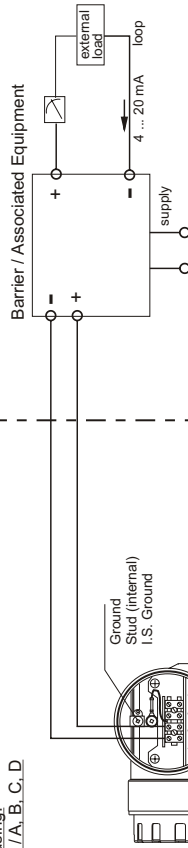


HAZARDOUS LOCATION

Class I, Div. 1, GROUPS A, B, C, D
Class I, Zone 0, Ex ia IIC T6
Class I, Div. 2, Zone 2
Class II, Div. 1, GROUPS E, F, G
Class III, Div. 1

T12-OVP Housing:
IS / I, II, III / 1 / A, B, C, D



Notes:

INTRINSICALLY SAFE (Ex ia), CLASS I, DIV. 1, GROUPS A, B, C, D or Ex ia IIC
HAZARDOUS LOCATION INSTALLATION
A) DIVISION 1 INSTALLATION

- Control room equipment may not use or generate over 250Vrms.
- Install per the Canadian Electrical Code.
- Warning: Substitution of components may impair intrinsic safety.
Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque.
- Ex ia IS defined as intrinsically safe / sécurité intrinsèque.
- For entry installation use CSA certified safety barrier or other associated equipment that satisfy the following conditions: with $U_0/V_{oc} \leq U/V_{max}$, $I_0/I_{sc} \leq I/I_{max}$, $C_0/C_0 \geq C_1 + C_{cable}$, $L_0/L_{eq} \geq L_1 + L_{cable}$

U/V_{max} (V)	I/I_{max} (mA)	P/P_{max} (W)	C_1 (nF)	L_1 (μ H)
30	273	1.0	≤ 13	negligible

- For system installation use: CSA certified safety barriers as follows:
(a) 28 V / 300 Ω + Ground or
(b) 28 V / 300 Ω + 28 V / Diode or
(c) 28 V / 300 Ω + 10 V / 50 Ω
- Use supply wires suitable for 5K above surrounding ambient.
Utiliser des fils d'alimentation qui conviennent a une température de 5 K au-dessus de la température ambiante.
- Install barrier / associated equipment in accordance with manufacturer's instruction.
- The surge protection device (OVP) fulfills the requirements of CAN/CSA-E60079-14 / IEC 60079-14 clause 12.3.

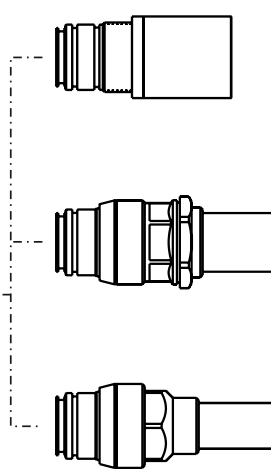
**CLASS I, DIV. 2, GROUPS A, B, C, D or Ex nC, IIC AND DIP, FOR CLASS II AND III, DIV. 1, GROUPS E, F, G
HAZARDOUS LOCATION INSTALLATION:**

- Depending on Location install per Canadian Electrical Code (CEC) using wiring methods described in Rule 18-156 or Rule 18-202 or Rule 18-302. Intrinsic safety barrier not required. Class 2 power supply shall be used, max. supply voltage 30V. For I-code see table.
- Warning: Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
Avertissement: Risque d'explosion - Avant de déconnecter l'équipement, couper le courant ou s'assurer que l'emplacement est désigné non dangereux.
Warning: Explosion hazard - substitution of components may impair suitability for Class I, Div. 2.
Avertissement: Risque d'explosion - la substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Classe I, Div. 2.

For CLASS II and III, Div. 1:
WARNING: Keep cover tight unless power has been switched off or the area is known to be non-hazardous.

Temperature class with / without Display VU 331	Permissible maximum medium temperature at the sensors	Permissible maximum ambient (T _a) of electronic compartment (T12 enclosure with integrated OVP)	
		LUC-M10-	LUC-M20-
T6	+80 °C	+60 °C	+60 °C
T5	+80 °C	+75 °C	+75 °C
T4	+80 °C	+80 °C	+80 °C

NON HAZARDOUS LOCATION



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

Type	Type of sensor	Operation temperature (°C)
LUC-M10-	1 1/2"-sensor	-40 to +80
LUC-M20-	2"-sensor	-40 to +80
LUC-M40-	3"-sensor	-40 to +80

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



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