

16-519CS-12 1/7

LUC-M10, LUC-M20, LUC-M40
CSA control drawing (F**, IS-HART)



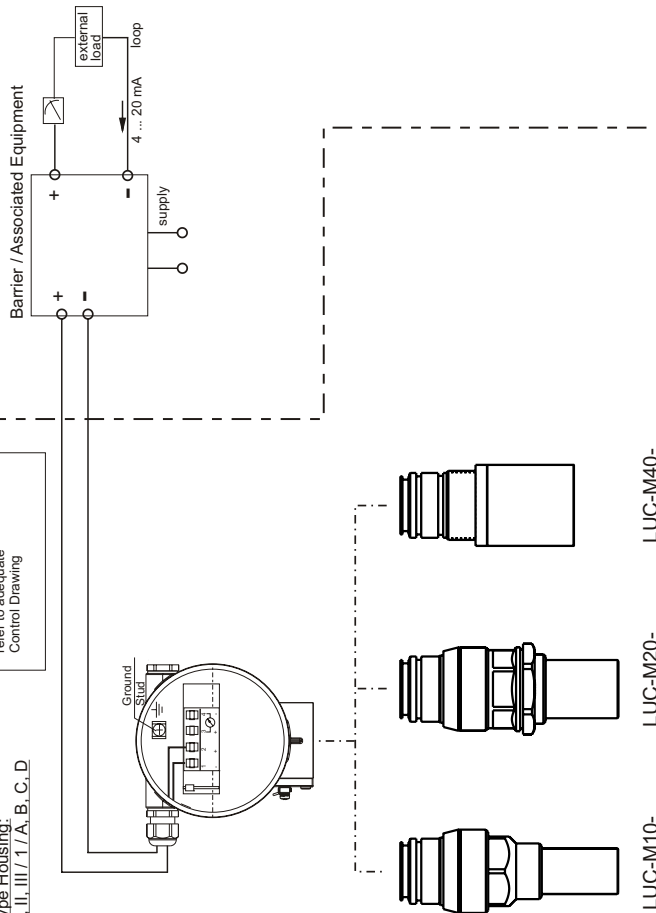
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HAZARDOUS LOCATION

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

F*-Type Housing:
IS / I, II, III / I, A, B, C, D

Option 1:
Prepared to connect
CSA approved remote
display type LUC-Z40-Ex1*
refer to adequate
Control Drawing



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 250 Vrms.
- 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 $U_0/V_{oc} \leq U_0/V_{max}$, $I_0/I_{sc} \leq I_0/I_{max}$, $C_0/C_a \geq C_0/C_{cable}$, $L_0/L_q \geq L_1 + L_{cable}$

U_0/V_{max} (V)	I_0/I_{max} (mA)	P/P_{max} (W)	C_0 (nF)	L_1 (μ H)
30	300	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 5 K above surrounding ambient.
Utiliser des fils d'alimentation qui conviennent à une température de 5 K au-dessus de la température ambiante.
- Install barrier / associated equipment in accordance with manufacturer's instruction.
- This version of Prosonic M may be provided with a connection to an external display unit already installed or via a set up kit. This connection is for the use of the CSA certified display unit LUC-Z40-Ex1* only. Refer to safety instructions of the external display unit LUC-Z40-Ex1*.

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. Max. supply voltage 30V. For T-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.

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: F*-Type enclosure -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

Temperature class with / without Display VU 331	Permissible maximum medium temperature at the sensors	Permissible maximum ambient (T _a) of electronic compartment (F*-Type enclosure)	
		LUC-M10-	LUC-M40
T6	+60 °C	+60 °C	+60 °C
T5	+80 °C	+80 °C	+80 °C