

Intrinsic safety (intrinsic), Class Div. 1, Group A, B, C, D
 Hazardous Location, installations

Nonhazardous location

Hazardous location

1. Control room equipment may not be energized over 260 V
2. Install per the Canadian Electrical Code
3. Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions: $V_{oc} \leq V_{max}$, $I_{sc} \leq I_{max}$, $C_1 + C_2 \leq C_{max}$, $L_1 \geq L_1 + L_{max}$
- Barrier must be capable of delivering more than 1 Watt to a matched load.
 $U/V_{max} = 30VDC$
 $I/I_{max} = 133mA$
 $C_1 = C_{max} + C_{load}$
 $L_1 = L_{max} + L_{load}$
 $P_{max} = 1W$

4. G and L shall be calculated depending on cable length (see table).
- For system installation:
 Use CSA certified safety barriers as follows:
 (a) $28V/300\Omega$ + ground
 (b) $28V/300\Omega$ + $25V/90\Omega$ or
 (c) $28V/300\Omega$ + $10W/60\Omega$

5. Warning: Substitution of components may impair intrinsic safety.
 Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque.
6. Intrinsic safety barrier manufacturer's installation drawing must be followed when installing this equipment. The configuration of the intrinsic safety barrier(s) must be CSA approved.

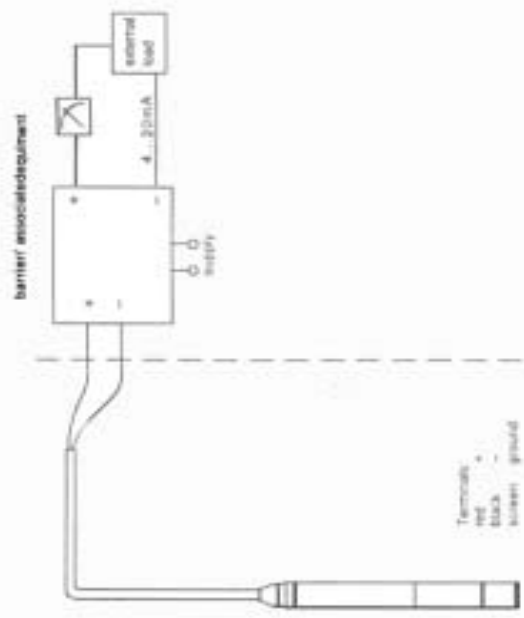


Table: Intrinsic parameters

UNIT/UNIT	value
U/V_{max}	$= 30VDC$
I/I_{max}	$= 133mA$
P/P_{max}	$= 1W$
$C_1 + C_2$	$\leq 10nF$
L_{max}	$= 0$

$G_{max} = 180\mu F/m$
 $L_{load} = 1\mu F/m$

Area of application
 The connection must be suitable for use in areas where explosion is caused by gases, vapours or mists.

ambient temperature range
 $-15^{\circ}C \dots +70^{\circ}C$

Barrière de sécurité intrinsèque	Firmware
Sécheresse de l'air	empoussiérage

ORIGINAL

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f **ph** PEPPERL+FUCHS
 Mannheim

CSA control drawing
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