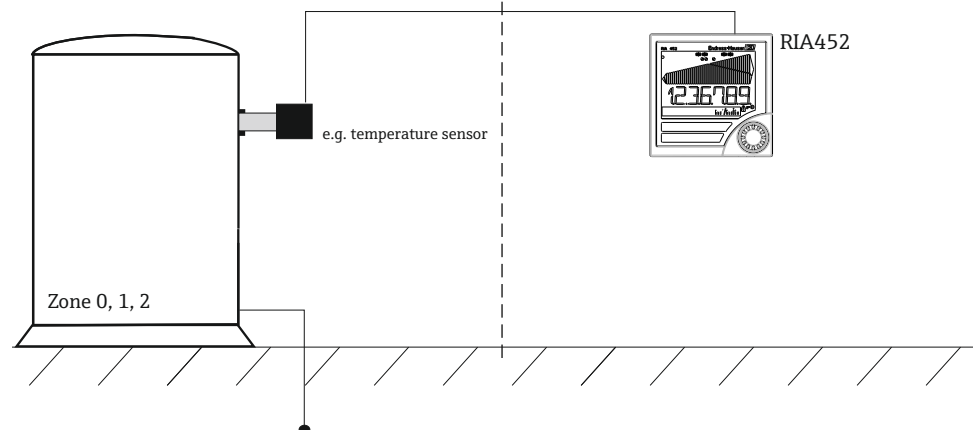


Nonhazardous Locations



- CSA Approved apparatus must be installed in accordance with manufacturer's instructions.
- The device is an Associated Intrinsically Safe Apparatus and Associated Nonincendive Field Wiring Apparatus, which must be installed only in non-hazardous locations.
- Install per Canadian Electrical Code.
- Use supply wires suitable for 5°C above surrounding.
- Degree of protection must be at least IP20, NEMA 1, Type 1.
- The terminals of the intrinsically safe circuit must be placed at least a distance of 50 mm from terminals of the non-intrinsically safe circuits, or adequate separators (e.g. ground metal partitions) must be used.

Ta = -20°C ... +60°C

Um = 90...250 VAC 50/60 Hz
Um = 20...28 VAC 50/60 Hz, 20...36 VDC

Transmitter supply	U ≤ 24 VDC	± 15%
Terminal 91, 92	I ≤ 250 mA	
Current output	0/4...20 mA, 0...10 VDC	
Terminal 31, 32		
Relays	U _{max} ≤ 250 VAC	I _{max} ≤ 3A
Terminals 41,42,43	U _{max} ≤ 30 VDC	I _{max} ≤ 3A
44,45,46		
51,52,53		
54,55,56		
Terminals 141,142,143		
144,145,146		
(as option) 151,152,153		
154,155,156		
Digital output	24 V, 200 mA	
Terminal 33, 34		
Digital inputs	U _{max} = 24.5 V	
Terminal 96, 97, 197, 297, 397		
RS 232 and CDI interface for device configuration		

Cl. I, Gps ABCD
Cl. II, Gps EFG, Cl. III
Cl. I, Zone 0, IIC
 $P_0 < P_i$

ASSOCIATED NONINCENDIVE FIELD WIRING		I,II,III/2/ABCDEFG
Voc ≤ Vmax	Ca ≥ Ci + Ccable	La ≥ Li + Lcable

Current input active	$V_{oc} \leq 27.6 \text{ V}$	
Terminal 81, 82	$I_{sc} \leq 88.6 \text{ mA}$	
	$P_o = 612 \text{ mW}$	
$C_i \approx$ negligible small	$L_i \approx$ negligible small	
Group A, B resp. IIC	$C_a = 86 \text{ nF}$	$L_a = 1.6 \text{ mH}$
Group C, D resp. IIB, IIA	$C_a = 86 \text{ nF}$	$L_a = 1.6 \text{ mH}$

Current input passive	$V_{oc} \leq 27.6 \text{ V}$	
Terminal 11,12	$I_{sc} \leq 0.9 \text{ mA}$	
	$P_o = 7 \text{ mW}$	
Ci $\approx$ negligible small	Li $\approx$ negligible small	
Group A, B resp. IIC	Ca = 86 nF	La = 100 mH
Group C, D resp. IIB, IIA	Ca = 86 nF	La = 100 mH

	Approved Meroth	Date (yyyy-mm-dd) 2004-11-03	Drawing No. 02 14 00 112	Dwg.rev. -	Revision no. -	Revision date (yyyy-mm-dd) -	Name -	Material 71540245 XA02333R/09/EN/01.20	Endress+Hauser 
Volume (mm³)	Designed Meroth	Date (yyyy-mm-dd) 2004-11-03	Unit RIA452	Scale 1:1	Title CONTROL DRAWING CSA IS, NI			Series	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4				Objekt version	