

Instructions:
Include this sheet as shown.

WARNING - EXPLOSION HAZARD - Substitution of components may impair suitability for Class I, Division 2.

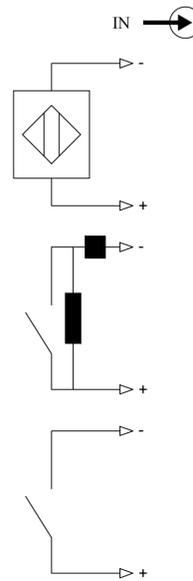
WARNING - EXPLOSION HAZARD - Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.

WARNING- Exposure to some chemicals may degrade the sealing properties of materials used in the sealed relays.

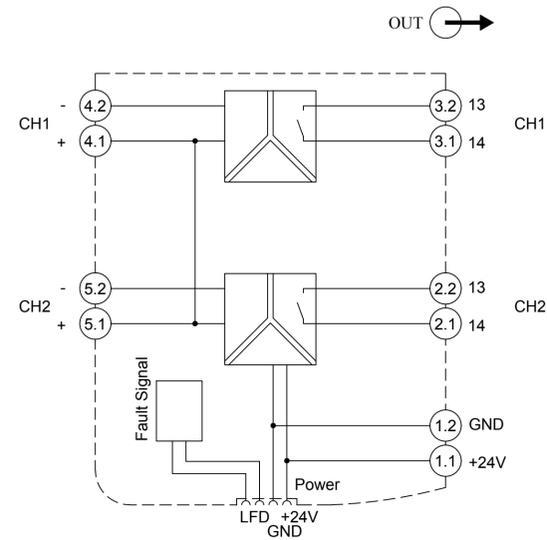
- I. The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system. Selected Intrinsically Safe Equipment must be third party listed as intrinsically safe for the application and have intrinsically safe entity parameters conforming with table 1 below:

I.S. Equipment	Associated Apparatus
V max (or Ui)	Voc or Vt (or Uo)
I max (or Ii)	Isc or It (or Io)
P max (or Pi)	Po
Ci+ Ccable	Ca (or Co)
Li+ Lcable	La (or Lo)II.

- II. Capacitance and inductance of the field wiring from the intrinsically safe equipment to the associated apparatus shall be calculated and must be included in the system calculations as shown under I. Where the cable capacitance and inductance per foot are not known, the following values shall be used: Ccable = 60 pF / ft., Lcable = 0.2 μH / ft.
- III. The output current of this associated apparatus is limited by a resistor such that the output voltage-current plot is a straight line drawn between open-circuit voltage and short-circuit current.
- IV. This associated apparatus has not been evaluated for use in combination with another associated apparatus.
- V. This associated apparatus may also be connected to simple apparatus as defined in Article 504.2 and installed and temperature classified in accordance with Article 504.10(8) of the National Electrical Code (ANSI/NFPA70), or other local codes applicable.
- VI. Associated apparatus must be installed in an enclosure (which meets the requirements of ANSI/ISA S82) suitable for the application in accordance with the National Electrical Code (ANSI/NFPA 70) for installation in the United States, the Canadian Electrical Code for installation in Canada, or other local codes, as applicable.
- VII. When using as non-incendive device for Class I, Division 2 or Class I, Zone 2 do not snap equipment onto or off the T-connector, or connect and disconnect non-intrinsically safe-lines unless power has been removed or the area is known to be non hazardous.
- VIII. Intrinsically safe circuits must be wired separately in accordance with Article 504.20 of the National Electrical Code (ANSI/NFPA 70) for installation in the United States, the Canadian Electrical Code Part 1, Appendix F for installation in Canada, or other local codes, as applicable.
- IX. When multiple circuits extend from the same piece of associated apparatus, they must be installed in separate cables or in one cable having suitable insulation. Refer to Article 504.30(6) of the National Electrical Code (ANSI/NFPA 70) and Instrument Society of America Recommended Practice ISA RP12.6 for installing intrinsically safe equipment.
- X. When using as non-incendive device for Class I, Division 2 or Class I, Zone 2 with exposure to some chemicals a periodically inspect of the relays for any degradation of properties and a replacement if degradation is found is recommended.



HAZARDOUS AREA
Class I, Division 1, Groups A,B,C,D
Class II, Division 1, Groups E,F,G
Class II, Division 1
Class I, Zone 0,1,2, Groups 11:C,IIB, IIA



NON HAZARDOUS AREA
or Class I, Division 2, Groups A,B,C,D
or Class I, Zone 2, Groups IIC,IIB,IIA

Art.Nr.	Model Number	Terminal	Output Circuit - Hazardous Zone					Group A, B or IIC		Group C or IIB		Group D or IIA		Input Circuit - Hazardous Zone				
			Voc or Uo/ Vdc	Isc or Io / mA	Po/mW	Ci/nF	Li /mH	Ca or Co/ nF	La or Lo /mH	Ca or Co/ nF	La or Lo /mH	Ca or Co/ nF	La or Lo /mH	Terminal	Vmax or Ui/V	I max or Ii/mA	Ci I nF	Li/mH
2865476	MACX MCR-EX-SL-2NAM- RO	4.1-4.2 5.1-5.2	9.6	10	25	1.1	Negligible	510	100	2700	100	-	-	-	-	-	-	
								840	5	4400	5	-	-	-	-	-		
								1200	1	6300	1	-	-	-	-	-		
								3600	0.01	26000	0.01	-	-	-	-	-		

Power Supply Circuit			Max. Surrounding Air Temperature Rating: 60°C		Signal Circuit - Safe Zone			Interface Circuit
Terminal	T-Connector	Un = 24V-20%+25% U Range	Um	Ambient Temperature Range: Tamb	Terminal	Output	Input	Socket
1.1-1.2	yes	19.2 - 30VDC	253VAC / 125VDC	-20 - +60°C	3.1-3.2 + 2.1-2.2	X		

UL Notes:
E199827
QVAJ.GuideInfo
AANZ.GuideInfo
AAIZ.GuideInfo
UL 913