



IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 07.0023X	Issue No.:	0
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Drawing list pertaining to Issue 0 of this Certificate:

Document No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
IRB-Z-003	1	IS Relay Schematic Diagram	4	2003/09/23
IRB-Z-004	1	PCB Material	2	2003/04/29
IRB-Z-005	1	IS Relay Box Assembly	3	2003/06/18
IRB-Z-006	1	IS Relay 12VDC Reed Relay	2	2003/04/29
IRB-Z-007	1	IS Relay Case Labelling	5	2007/10/23
IRB-Z-008	1	IRB Intrinsically Safe Relay - PCB Parts List	1	2003/06/18

Conditions of Certification pertaining to Issue 0 of this Certificate:


1. It is a condition of safe use that the following parameters shall be taken into account during installation:

Parameters	Intrinsically Safe Terminals	Non-intrinsically Safe Terminals
U_i	16.5 V	
C_i	0 μ F	
L_i	0 μ H	
U_m		1100 Vrms
I_m		20 A
P_m		500 VA

In underground mining application, the maximum current (I_m) is limited to 5A by use of a series resistor or inductor between the star point and earth of the supply transformer.

2. It is a condition of safe use that the apparatus shall be installed in a host enclosure which would be adequate to provide the live terminals a minimum ingress protection of IP54 for Group I. The host enclosure would also prevent electrostatic hazard due to the plastic enclosure of the apparatus.
3. It is a condition of safe use that the circuits connected to the two different sets of terminals must be adequately segregated from each other.
4. It is a condition of manufacture that routine high voltage test in accordance with Clause 6.4 of IEC 60079-11:1999 at 3200 V shall be carried out between the output and the input terminals, for a period of greater than 1 minute. The equipment must not exhibit any disruptive discharges i.e. flashovers or insulation punctures during the test. (Adequate protection must be taken to safeguard personnel during this test).

Certificate issued by:

	TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia
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