



NEPEAN
Power

HSB - Holistic Safety Barrier

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NEPEAN ELECTRONICS



NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

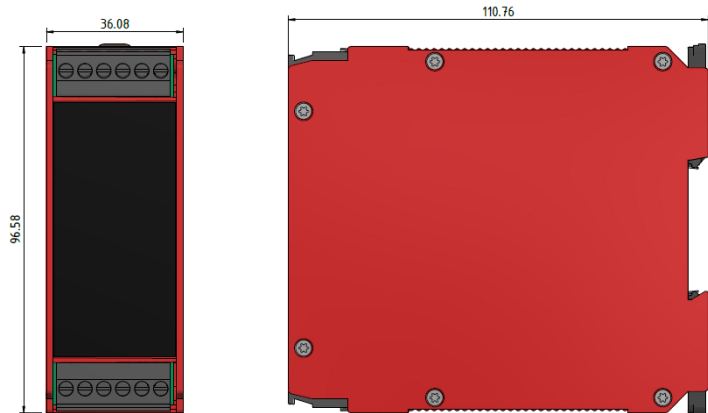
The HSB is an electrical protection barrier designed for operation in underground coal mining applications. The HSB is used to provide isolations for HLO (X0510) and HFC (X0511) relays approved for use in hazardous areas. This barrier limits the amount of energy allowed to pass into the hazardous area, which inhibit ignition in flammable atmospheres.

Conditions of Use

When used in a hazardous environment the apparatus shall be installed in a separately certified enclosure protected by a suitable type of protection for Group I as described by IEC 60079-0.

The following parameters shall be taken into account during interconnection in a system:

1100 VOLT INPUT - Terminals 1, 3, 6	
I/O Parameters	Um = 700V phase to earth Uo = 17.3V Io = 0.45mA Po = 1.75mW Co = 5.3 µF Lo = 10mH
24 VOLT OUTPUT - Terminals 7, 9, 11	
I/O Parameters	Um = 28V



Terminals 8, 10 and 12 shall each be connected to intrinsically safe earth by at least 1.5mm² wire.

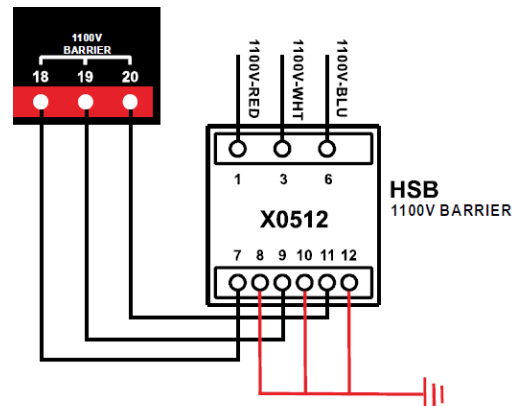
Ordering Information

Part Number	Description
X0512	HSB-Holistic Safety Barrier 1000V

Specification

Ambient Temperature	-20°C ~ 60°C
Certificate No	IECEX ExTC 23.0004X

Wiring Diagram - X0510 & X0511



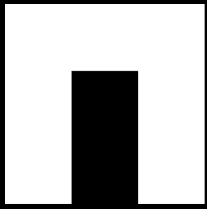
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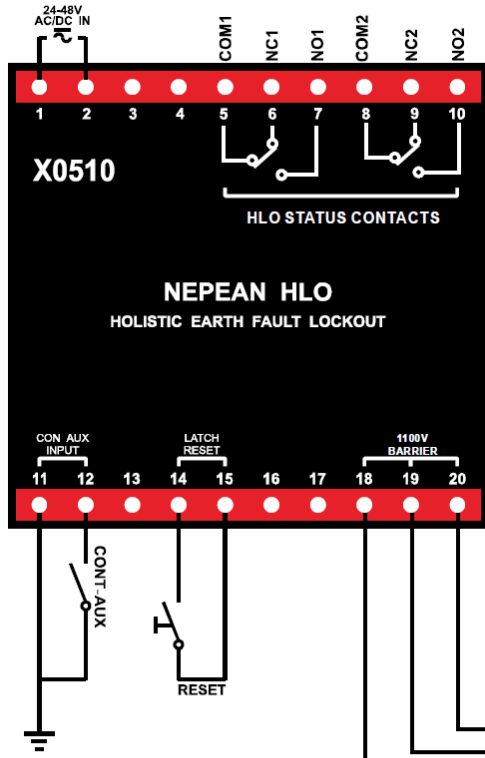
Rev : B



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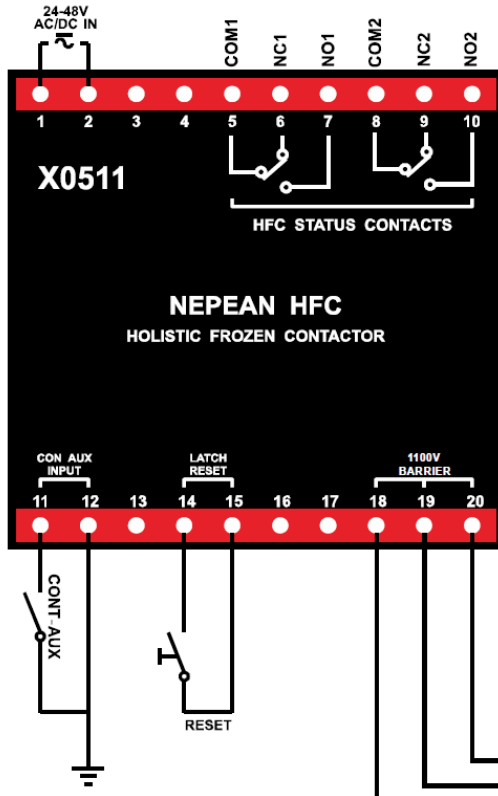
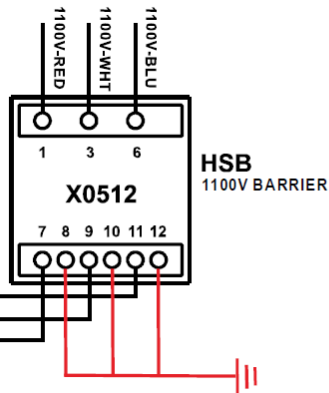
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Ex	TESTING & CERTIFICATION	This document is approved as specified in the listed certificate.
	IECEx ExTC 23.0004X-0	



X0510 - HLO HOLISTIC EARTH FAULT LOCKOUT

AUX VOLTAGE 24 - 48V AC/DC
COMPLIANT TO: AS/NZS 2081
TRIP CONTACTS: 8A 250V
X0512 = 1100VOLT SAFETY BARRIER



X0511 - HFC HOLISTIC FROZEN CONTACTOR

AUX VOLTAGE 24 - 48V AC/DC
COMPLIANT TO: AS/NZS 2081
TRIP CONTACTS: 8A 250V
X0512 = 1100VOLT SAFETY BARRIER

