



Consumer and
Corporate Affairs

Consommation et
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Standards

Normes

**NOTICE OF APPROVAL
AVIS D'APPROBATION**

E-161

Ottawa, April 5, 1979

WESTINGHOUSE TYPE W-7 ISOLATION RELAY

Input: The relay coil is placed in the common or K lead of the input to a type WR-2C or WR-31, WR-2C, WR-32, WR-4C, WR-34 Recorder.

Output: The relay provides a 3-wire KYZ output which is isolated from the input.

Relay type: Adams and Westlake, sensitive, mercury wetted bi-stable, octal base, type no. MWS 16862-1B or equivalent

Operating Current: ± 19.9 milliamperes

Coil Resistance: 6.6 ohms $\pm 10\%$

Contact Rating: 2 amperes maximum, 500 volts maximum, 100 volt amperes maximum with contact protection

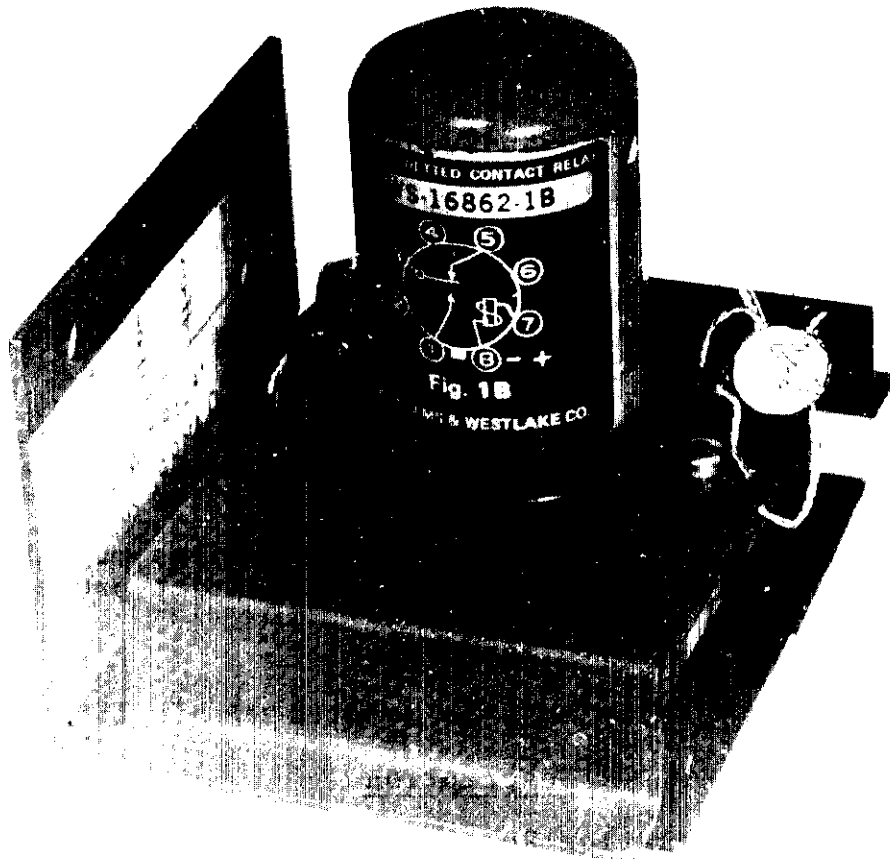
Temperature Range: -29° to $+65^{\circ}\text{C}$

Mounting: Relay must be mounted within 15° of vertical

Description

The Type W-7 Isolation Relay provides a single 3-wire contact form C output from the input to a Westinghouse WR-31, WR-2C, WR-32, WR-4C or WR-34 demand recorder. The 6.6 ohm coil of this relay is placed in the common or K lead of a demand channel. The bi-directional current flowing through the coil drives a set of form C magnetic latch, mercury-wetted contacts which will remain closed to one side with no power applied to the coil as the contacts have no neutral state.

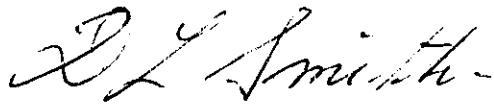
The W-7 relay makes it possible to operate a device requiring a 3-wire form C input, in parallel with a WR-31, WR-2C, WR-32, WR-4C or WR-34 recorder. Failure of the W-7 contacts would not therefore interrupt the flow of pulses on the input channel to the recorder. Arc suppression is required for the mercury wetted contacts.



The metal terminal cover has a hole in the centre through which the octal relay socket protrudes. A metal ring with drilled tabs slips down over the flange at the base of the relay. The relay and terminal cover are both sealed by passing sealing wire through the drilled tabs and matching holes in the cover. The terminal cover screws are rendered inaccessible by the ring. For outdoor use this device must be mounted in a weatherproof enclosure.

Approval granted to:

Westinghouse Canada Limited
Hamilton, Ontario

A handwritten signature in cursive script, appearing to read "D. L. Smith".

D. L. Smith
Chief,
Electricity & Gas Division
Legal Metrology Branch

Ref: G 6565-C3-43