



Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

**NOTICE OF APPROVAL
AVIS D'APPROBATION**

E-59

OTTAWA October 29, 1973

STATREL TYPES "M-31" AND "M-32" INTERPOSING RELAYS

Input	SPST dry contacts, bounce-free ^①
Input Pulse Duration	5 milliseconds to continuous
Input Pulse Rate	100 per second maximum
Max. Input Resistance ^②	500 ohms M-31 250 ohms M-32
Burden on Transmitting Contacts	25 milliamperes at 12 volts DC M-31 50 milliamperes at 12 volts DC M-32
Output	SPDT Form C dry reed contacts, each channel
Number of Channels	1 M-31 2 M-32
Output Contact Rating	100 ma at 100 volts DC max., 10 watts max.
Input/Output Pulse Ratio ^③	1:2
Type of Relay	Potter & Brumfield JR-1045

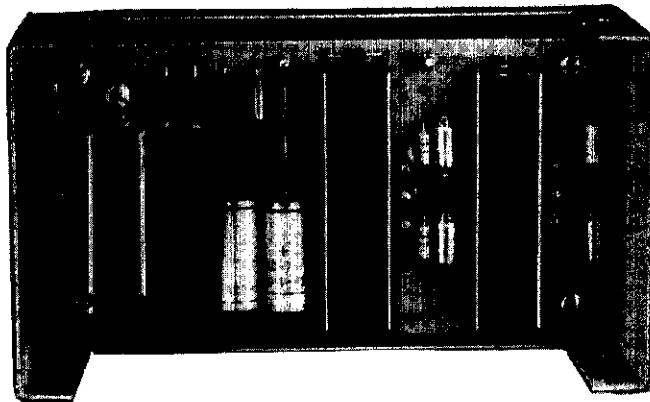
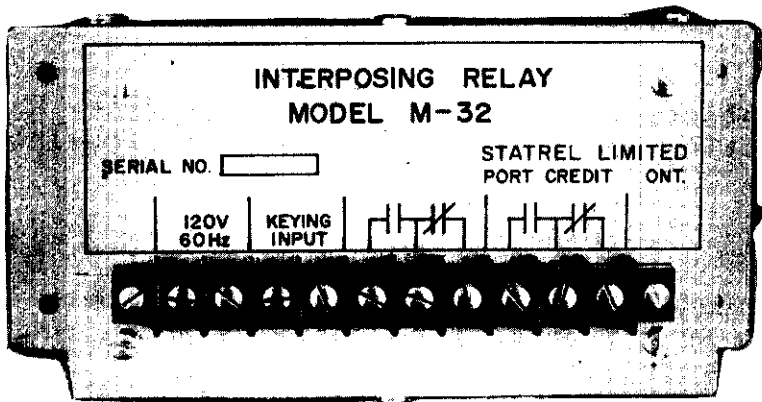
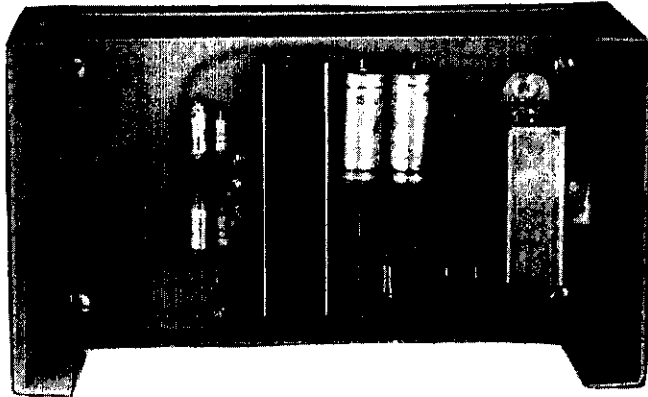
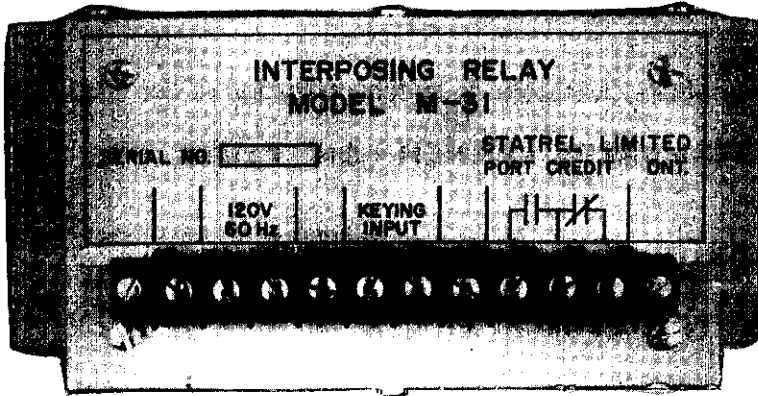
- ① Transmitting contacts on meter must be bounce-free.
- ② Between transmitting contacts on meter and interposing relay.
- ③ See description.

Description

This relay is intended as an interposing device between an energy meter having SPST transmitting contacts and a receiving device requiring a 3-wire signal input.

The type M-32 has two channels so that two receiving devices can be operated by a single set of transmitting contacts.

When the contacts on the transmitting meter are open, the interposing relay is de-energized and the contacts indicated by an oblique line through the contact symbol on the nameplate are closed.



When the contacts on the transmitting meter close, the interposing relay is energized and the other set of contacts close and remain closed as long as the transmitting contacts remain closed.

For this reason, one input contact closure produces two output contact closures.

Because of the very rapid action of the interposing relay, transmitting contact bounce could produce extra output pulses.

A break in the transmission line or an intermittent contact could produce extra output pulses if the transmitting contacts happened to be closed.

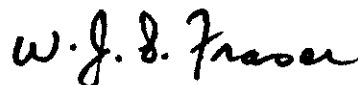
NOTE: This approval covers the use of this interposing relay with meters having bounce-free transmitting contacts and to pulse receivers that do not respond to contact closures of less than 10 milliseconds duration.

Approval granted to:

Statrel Limited,
Port Credit, Ontario.



J. L. Armstrong,
Chief, Standards Laboratory,
Metrology & Laboratory Services.



W.J.S. Fraser,
Chief, Electricity & Gas Division,
Metrology & Laboratory Services.

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