

INTRODUCTION

Type 1012-M Fail Safe Electronic Time Delay Device commonly referred as Fail Safe Timer (FST) is designed to control Railway Signalling circuits where a one fixed time delay of 10 sec, 20 sec, 30 sec, 60 sec or 120 seconds is provided. However, we can supply varied delay timings as per customer requirements. This works on 24V DC. Design of the unit is Relay-less which is based on DC-DC Conversion, resulting in long life, several times than that of a Relay based design. Timer is micro controller based design encapsulated in a standard 'Q'-series housing. Time delay is derived through two Microcontroller channels which actuate a multi vibrator fed to a transistor stage coupled to rectifiers through a high frequency transformer resulting as the final output. The timer starts counting as soon the 24V DC supply is connected and after the set time delay we get the output.



Working of the device is indicated through red blinking LEDs on the control card which are easily visible from outside and a green LED is provided to indicate completion of time delay cycle.

SALIENT FEATURES

- ✓ Fully Solid State Relay-less robust design resulting in a very long life;
- ✓ Time base generated through Quartz Crystal resulting in high repeat accuracy besides being highly stable;
- ✓ Delay chain having two Micro Controllers;
- ✓ Working and completion time cycle indicated through LEDs visible from top in 'Q' Series Relay Housing

TECHNICAL SPECIFICATIONS:

DC Input	: 24V + 20%, -10%
DC Output	: 24V + 20%, -10%
Delay Time	: 10 Sec, 20 Sec, 30 Sec, 60 Sec & 120 Sec + 10%
Customised Timer	: 3 Sec + 10% (similar, but not part of IRS: S-61/2000, supplied through Consignee Inspection)

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