

### INTRODUCTION

Type FR 101-Series Flasher Relays are suitable for continuous working in Railway Signaling Installations for indoor use. Flasher is so designed that the failure of any component results in no indication instead of flashing indication. Unless specified by the user the relay contacts are kept potential free. When the input voltage exceeds above specified voltage the protection circuit cuts off the operation, which is indicated by glowing of a Yellow LED on top. The Operation resumes after the input voltage is corrected. The Design of this relay is micro controller based which drives the Relay at the output having a mechanical life of 1 million Cycles.

### SALIENT FEATURES

- ✓ Fail-Safe Solid-State design, Failure of any component results in NO-INDICATION
- ✓ Models available for 12V DC, 24V AC/DC, 60V AC/DC, 110V AC & 230 V AC with Over Voltage Protection
- ✓ Flashing rate  $50 \pm 10$  flashes per minute
- ✓ Variable Flashes model also available
- ✓ Used in Railway Signaling Installations



### TECHNICAL SPECIFICATIONS:

Input	: 60V AC/DC/ 24 V AC/DC/ 12V DC/ 110V AC or 230V AC $\pm$ 10% (as specified by the user at the time of ordering)	
Output	: Potential free contacts rated for 3 Amp/ 10 Amp AC/DC LOAD	
Indications	: RED	- Power supply
	: GREEN	- Flashing
	: YELLOW	- Over voltage protection
Housing	: Sheet metal painted in smoke grey stove enamel	

TYPE/ Model No.	Input Voltage	Output Voltage
FR 101- AM	24V AC/DC	Potential Free Contacts for 3 Amps AC/DC
FR 101- ABM	60V AC/DC	Potential Free Contacts for 3 Amps AC/DC
FR 101- ACM	12V DC	Potential Free Contacts for 3 Amps AC/DC
FR 101- AAM	24V AC/DC	Potential Free Contacts for 10 Amps AC/DC
FR 101- BM	110V AC	Potential Free Contacts for 10 Amps AC/DC
FR 101- VM	230V AC	Potential Free Contacts for 10 Amps AC/DC
		10-100 Flashes per min variable in 10 Steps

DATA SHEET 101/0519



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