INTERMATIC

# Graesslin Electronic Timer Control - 24-Hour or 7-Day 12/24 VDC, 24 VAC Electronic Panel Mount Module, 15 A, 20 Setpoint Programs, SPDT

Item FM1D20-LV-U

## PRODUCT DESCRIPTION

The FM1D20 Series is a great value electronic time-based control solution for ventilating, heating, cooling, lighting or other electrical loads in commercial and industrial applications. These one-channel time switches are programmable for 24-hour or 7-day schedules with integrated cycle timer. The FM1D20 Series is intended for either panel, surface, flush or DIN rail mounting. Flush and surface/DIN rail (A & E models) are completely enclosed in a plastic housing and include a terminal cover, dust cover and subbase for installation and hard wiring.

## FEATURES

- ► 24-Hour or 7-day applications.
- ► 20 Setpoint programs.
- ► Easy to program.
- ► Manual override with status indication.
- ► Self-recharging battery with backup protection up to 2500-hours.
- ► LCD display.
- ► Cycle timer function.

## APPLICATIONS

- ► Refrigeration Merchandiser
- ► Air Movement & Ventilation
- ► Aeration
- ► Septic Treatment
- ► Generator Exercising

## TECHNICAL DATA

| General | |
|---|---|
| Model Number | FM1D20-LV-U |
| Description | 24-Hour or 7-Day 12/24 VDC, 24 VAC Electronic Panel Mount Module, 15 A, 20 Setpoint Programs, SPDT |
| UPC Code | 078275156883 |
| Brand | Intermatic |
| Country of Origin (Intermatic) | CHINA |
| Warranty Period | 1-Year limited |

| Control Specifications | |
|---|---|
| Minimum ON/OFF Times | 1 min |
| Maximum ON/OFF Times | 23 hours, 59 minutes |
| Setpoint Program Count | 20 |
| ON/OFF Operations | 20 |
| Operation Mode | 24 hour; 7 day; Cycle |
| Daylight Savings Adjustment | Manual |
| Backup Type | Battery |
| Backup Protection Time | 2500 Hours |
| Battery Service Type | Self-recharging |
| Mechanism Type | Digital/Electrical |
| Has Manual Override Status Indication | Yes |
| Application Compatibilities | LED |

## Mechanical Specifications

| | |
|---|---|
| Mounting Options | Panel |

## Dimensions

| | |
|---|---|
| Product Dimensions (H x W x D) in | 2.36 x 2.36 x 0.83 in |
| Cut-Out Width (In) | 2 5/8 |
| Cut-Out Width (mm) | 66 |
| Cut-Out Height (in) | 2 5/8 |
| Cut-Out Height (mm) | 66 |
| Wire Size Min | #24 AWG |
| Wire Size Max | #10 AWG |

## Material Specifications

| | |
|---|---|
| Color | White |
| Has Clear Dust Cover | Yes |

## Load Ratings

| | |
|---|---|
| Tungsten (NO) Load Ratings | 1000 W, 120 VAC |
| Magnetic Ballast (NO) Range(s) | 8 A, 277 VAC |
| Magnetic Ballast (NC) Range(s) | 8 A, 277 VAC |
| Resistive (NO) Range(s) | 15 A, 277 VAC |
| Resistive (NC) Range(s) | 15 A, 277 VAC |
| Pilot Duty (NO) Range(s) | B300 |
| General Purpose (NC) Range(s) | 15 A, 277 VAC |
| General Purpose (NO) Range(s) | 15 A, 277 VAC |
| Electronic Ballast Load Ratings NO Ranges | 4.9 A, 120 VAC |
| Tungsten (NO) Range(s) | 8 A, 277 VAC |
| Motor Load Ratings NC Ranges | 1/2 HP @ 120/240 VAC; 10 FLA, 60 LRA @ 250 VAC |
| Motor Load Ratings NO Ranges | 1/2 HP @ 120 VAC; 10 FLA, 60 LRA @ 250 VAC; 1 HP @ 250 VAC |

## Electrical Specifications

| | |
|---|---|
| Maximum Power Consumption (VA) | 4 |
| Voltage Selection Type | Voltage Specific |
| Wiring Option | Spade terminals for #24 to #10 AWG wire (A models) |
| Number of Circuits | 1 |
| Switch Type | SPDT |
| Maximum Power Consumption (W) | 1.4 W |

## Packaging

| | |
|---|---|
| Shipping Weight (lbs) | 0.1 |
| Unit Carton Dimensions (H x W x L) in | 2.25 x 3.25 x 3.25 in |

## Operating Specifications

| | |
|---|---|
| Expected Lifetime (Operations) | 6000 |

Technical specifications and other information are subject to change without notice. Images can vary from original.

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## Environmental Specifications

| | |
|---|---|
| Operating Humidity | 0-95% RH, Non-condensing |
| Display Operating Temperature Min (°F) | 5 |
| Display Operating Temperature Min (°C) | -15 |
| Temperature (operation) | 5 °F to 131 °F / (-15 °C to 55 °C) |

## Standards and Certifications

| | |
|---|---|
| UL Certification | cULus |
| Other Certifications and Compatibilities | cRUus; CE; CA Title 20 |
| RU File Number | #E10694 |
| California Proposition 65 | None |
| RoHS Certification | Yes |