



FGR-M1 Series

Force-Guided Relay Modules

- Power requirements — Coil operating voltage of 24 VDC
- Contacts are force-guided/mechanically-linked
- Switching capabilities to 6 A
- Full range of 4-pole and 6-pole contact configurations
- Easy installation — The FGR-M1 Series may be mounted on 35 mm DIN rail or surface mounted with two screws

■ Description

The FGR-M1 Series relays have contacts that are force-guided/mechanically-linked conforming to EN61810-1 and EN50205. For more information on force-guided relays, see the article “Positively Driven/Force-Guided Contacts” on our website at www.sti.com/pdf/820.pdf.



Conforms to EN61810-1 and EN50205

■ Specifications

| ELECTRICAL | |
|--------------------------------|--|
| Operating Coil | |
| Supply Power: | 24 VDC |
| Current Rating: | 15 mA 4 poles; 20.8 mA 6 poles |
| Power Usage: | 360 mW 4 poles; 500 mW 6 poles |
| Switching Capability | |
| Rated Load: | 250 VAC 6 A; 30 VDC 6 A |
| Max. Switching Voltage: | 250 VAC; 125 VDC |
| Max. Switching Current: | 6 A |
| Max. Drop-Out Time*: | 10 mS |
| MECHANICAL | |
| Mechanical Life: | 1 x 10 ⁷ operations min. |
| Electrical Life: | 100,000 operations min. |
| Mounting with Socket: | 35 mm DIN rail or 2 screw holes for panel mounting |
| Wire Size: | Screw terminals accept single 16 or 18 AWG stranded or solid wire |
| Socket Dimensions: | |
| 4-Pole: | 72 x 22.5 x 60.5 mm (L x W x H) |
| 6-Pole: | 72 x 30 x 60.5 mm (L x W x H) |
| Weight: | |
| 4-Pole: | approx. 2.5 oz. (71 g) |
| 6-Pole: | approx. 3.2 oz. (91 g) |
| Vibration: | 10 to 55 Hz |
| ENVIRONMENTAL | |
| Humidity: | 35 to 85% RH |
| Operating Temp: | -40 to 185°F (-40 to 85°C) |
| Approvals: | EN61810-1, EN50205, UL 508, CSA 22.2 No. 14 |

*The Drop-Out Time is the time it takes for the N/O contacts to open after the coil voltage is turned OFF.

Specifications are subject to change without notice.

A Go to the Engineering Guide
For in-depth information on
safety standards and use.

Socket Terminal Connections

4-Pole

| | | | | | | | | | | |
|------------|------------------|----|------------------|----|------------------|----|----------------|----|----------------|----|
| 44532-2010 | ⊕0 24 VDC Supply | ⊖1 | 11 N/C Auxiliary | 12 | 21 N/C Auxiliary | 22 | 33 N/O Control | 34 | 43 N/O Control | 44 |
| 44532-2020 | ⊕0 24 VDC Supply | ⊖1 | 11 N/C Auxiliary | 12 | 23 N/O Control | 24 | 33 N/O Control | 34 | 43 N/O Control | 44 |

6-Pole

| | | | | | | | | | | | | | | |
|------------|------------------|----|------------------|----|------------------|----|------------------|----|----------------|----|----------------|----|----------------|----|
| 44532-2030 | ⊕0 24 VDC Supply | ⊖1 | 11 N/C Auxiliary | 12 | 21 N/C Auxiliary | 22 | 31 N/C Auxiliary | 32 | 43 N/O Control | 44 | 53 N/O Control | 54 | 63 N/O Control | 64 |
| 44532-2040 | ⊕0 24 VDC Supply | ⊖1 | 11 N/C Auxiliary | 12 | 21 N/C Auxiliary | 22 | 33 N/O Control | 34 | 43 N/O Control | 44 | 53 N/O Control | 54 | 63 N/O Control | 64 |
| 44532-2050 | ⊕0 24 VDC Supply | ⊖1 | 11 N/C Auxiliary | 12 | 23 N/O Control | 24 | 33 N/O Control | 34 | 43 N/O Control | 44 | 53 N/O Control | 54 | 63 N/O Control | 64 |

Ordering

Module with Socket (no LED)

| Model | Type | Control Contacts | Auxiliary Contacts | Part No. |
|------------|--------|------------------|--------------------|------------|
| FGRMS22-24 | 4-Pole | 2 N/O | 2 N/C | 44532-2010 |
| FGRMS31-24 | 4-Pole | 3 N/O | 1 N/C | 44532-2020 |
| FGRMS33-24 | 6-Pole | 3 N/O | 3 N/C | 44532-2030 |
| FGRMS42-24 | 6-Pole | 4 N/O | 2 N/C | 44532-2040 |
| FGRMS51-24 | 6-Pole | 5 N/O | 1 N/C | 44532-2050 |

Module with Socket and LED Indicator

| Model | Type | Control Contacts | Auxiliary Contacts | Part No. |
|----------------|--------|------------------|--------------------|------------|
| FGRMS22-24-LED | 4-Pole | 2 N/O | 2 N/C | 44532-2011 |
| FGRMS31-24-LED | 4-Pole | 3 N/O | 1 N/C | 44532-2021 |
| FGRMS33-24-LED | 6-Pole | 3 N/O | 3 N/C | 44532-2031 |
| FGRMS42-24-LED | 6-Pole | 4 N/O | 2 N/C | 44532-2041 |
| FGRMS51-24-LED | 6-Pole | 5 N/O | 1 N/C | 44532-2051 |

Modules

| Model | Volume 2 Model* | Type | Control Contacts | Auxiliary Contacts | Part No. |
|-----------|-----------------|--------|------------------|--------------------|------------|
| FGRM22-24 | G7SA-2A2B | 4-Pole | 2 N/O | 2 N/C | 44532-1010 |
| FGRM31-24 | G7SA-3A1B | 4-Pole | 3 N/O | 1 N/C | 44532-1020 |
| FGRM33-24 | G7SA-3A3B | 6-Pole | 3 N/O | 3 N/C | 44532-1030 |
| FGRM42-24 | G7SA-4A2B | 6-Pole | 4 N/O | 2 N/C | 44532-1040 |
| FGRM51-24 | G7SA-5A1B | 6-Pole | 5 N/O | 1 N/C | 44532-1050 |

Sockets

| Model | Volume 2 Model* | Type | Control Contacts | Auxiliary Contacts | Part No. |
|---------|-----------------|-----------------|------------------|--------------------|------------|
| FGRS-4 | P7SA-10F | 4-Pole | n/a | n/a | 44532-1704 |
| FGRS-41 | P7SA-10F-ND | 4-Pole with LED | n/a | n/a | 44532-1714 |
| FGRS-6 | P7SA-14F | 6-Pole | n/a | n/a | 44532-1706 |
| FGRS-61 | P7SA-14F-ND | 6-Pole with LED | n/a | n/a | 44532-1716 |

*Please consult page DD-1 of our companion catalog for products found in Volume 2.

Socket with LED



Indicator light is ON when power is applied to socket.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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