

Safety Relay Board FGR 50 / FGR 52

Universal DIN-Rail Mount Board with one or two force guided relays

Standard Characteristics

FGR 50: DIN-Rail mount Relay Board for conventional wiring with ONE 4 or 6-pole FGR, HENGSTLER, KACO or DOLD relay in following contact set arrangements:

- 510 5 make (NO) / 1 break (NC)
- 420 4 make (NO) / 2 break (NC)
- 330 3 make (NO) / 3 break (NC)
- 310 3 make (NO) / 1 break (NC)
- 220 2 make (NO) / 2 break (NC)

FGR 52: DIN-Rail mount Relay Board for conventional wiring with TWO 4 or 6-pole FGR, HENGSTLER, KACO or DOLD relay in following contact set arrangements:

- 510 5 make (NO) / 1 break (NC) each
- 420 4 make (NO) / 2 break (NC) each
- 330 3 make (NO) / 3 break (NC) each
- 310 3 make (NO) / 1 break (NC) each
- 220 2 make (NO) / 2 break (NC) each

- All Boards are provided with LED function indications and suppression Diodes.
- All Boards can be mounted on a DIN-/EN-TS32 or TS35 rails.
- Connector cross section 0.08 to 2.5 mm² (AWG 28 to AWG 14).
- Overall dimensions depend on unit and relay types. See dimension tables on next pages.
- Boards are available for nominal voltages 5 VDC to 110 VDC.
- Maximum current rating:
 - 6 A (H-463 & K-ROS)
 - 8 A (FGR35, D-OA56.11 & .12)
 - 10 A (H-462, D-OA56.01 & .02)
- Maximum voltage rating: 230/240 VAC / 300 VDC
- Operating temperature range / °C (°F): -25 to +80 °C (-13 to +176 °F)

Standard Contact Materials

- Silver Cadmium oxide, gold-flashed AgCdO / 0,2 µm Au
- Silver Cadmium oxide, gold-plated AgCdO / 2 µm Au
- Other contact materials are available upon a special request

Custom Safety Relay Boards

FGR is capable of providing our valuable customers with custom solutions that meet almost every demand.

- Boards with three or more Force Guided Relays.
- Boards with Force Guided Relays that provide different coil voltages.
- Boards with Force Guided Relays that provide different contact set arrangements.
- Custom boards that are pre-wired to consider special application and function requirements.

Ordering Example

- **FGR50-024-310FB** designates a FGR DIN-Rail mount relay board series 50 with one **FGR** safety relay type FGR35 with nominal coil voltage 24 VDC and 3NO/1NC force guided contact set.
- **FGR50-110-420HS** designates a FGR DIN-Rail mount relay board series 50 with one socket mount **HENGSTLER** Safety Relay type H-462 with nominal coil voltage 110 VDC and 4NO/2NC force guided contact set.
- **FGR52-012-330DB** designates a FGR DIN-Rail mount relay board series 52 with two **DOLD** Safety Relay type OA56.12 with nominal coil voltage 12 VDC and 3NO/3NC force guided contact set.
- **FGR52-006-220KB** designates a FGR DIN-Rail mount relay board series 52 with two **KACO** Safety Relay type ROS with nominal coil voltage 6 VDC and 2NO/2NC force guided contact set.
- **Last 2 digits** designate **relay type** and **mounting condition**. **F=FGR**, **H=HENGSTLER**, **K=KACO**, **D=DOLD**. Use **B** for **PCB mount** and **S** for **socket mount** types.