

# Safety Relay Board FGR 55 - 10

Universal DIN-Rail Mount Board with one force guided relay

## FGR55-\*\*\*-640HS

\*\*\* See Coil Voltage

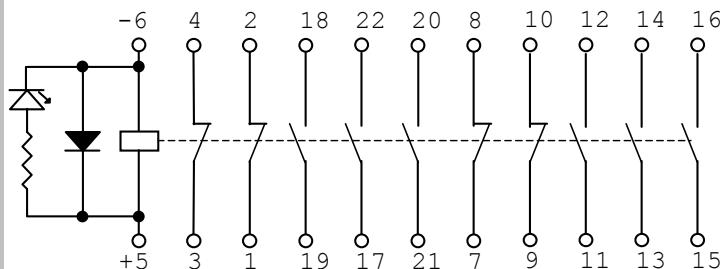
## Relay Switching Data and Wiring Diagram

### Dimensions

Width: 75.30 mm (2.96 inch)  
 Length: 125.20 mm (4.93 inch)  
 Height: 88.10 mm (3.47 inch)

### For conversion:

1 mm = 0.03937 inch  
 1 inch = 25.40 mm



Wiring Diagram 640: 6NO/4NC

### General Data

- DIN- Rail mount board with one force guided relay
- Screw mount terminals for conductor cross section 0.08 to 2.5 mm<sup>2</sup> (AWG 28 to 14)
- Relay is socket mount for fast preventive replacement
- Board is provided with LED function indication and suppression Diode

### Installation Remarks

- Turn off all power supplies before any installation work
- Be aware of all safety rules and guidelines of OSHA and other associations as they apply.
- Installer and/or operator must be a qualified professional.
- Do not demount the unit or remove any wires while relay operates.
- Conductor cross section 0.08 to 2.5 mm<sup>2</sup> (AWG 28 to AWG 14)

### Relay Data

Relay Version	HENGSTLER H-464
Standard Contact Set Configuration	640 (6NO/4NC)
Other available Contact Set Configurations	820 (8NO/2NC) & 730 (7NO/3NC)
Contact Material	AgCdO – 10 / 5 μm Au Gold Plated
Contact Resistance (when new)	< 50 mOhm
Available Nominal Coil Voltages (Resistances)	6 to 110 V DC (25 to 6,500 Ohm)
Operating Voltage Range at 20 °C / (68 °F)	20.1 to 54.5 V DC
Admissible Ambient temperature Range / °C (°F)	-25 ... +80 °C (-13 ... +176 °F)
Max. Switched Voltage Rating	230/240 VAC / 300 VDC
Max. Switched Current Rating (resistive)	10 A
Max. Contact Load (resistive)	2,000 VA / 120 W
Mechanical Service Life	> 1 x 10 <sup>7</sup> switching operations
Electrical Service Life	> 1 x 10 <sup>5</sup> switching operations
Contact gap in case of malfunction (110% V <sub>nom.</sub> )	> 0.5 mm
Response times: Energized with V <sub>nom.</sub>	
Pull – in           NC opens (NO closes)	22 ms (29 ms)
Drop – out       NO opens (NC closes)	3.5 ms (5.6 ms)
Insulation for reference voltage 250V	Operational surge voltage 4 kV/3 and Pollution degree 2
Coil-Contact set	Reinforced Insulation
Contact set - Contact set	Reinforced Insulation
Vibration resistance	10 g (10 to 100 Hz)
Shock resistance	10 g / 11 ms
Weight	140 g
Approvals	UL, CUL, TÜV, SA, SUVA, SEV