



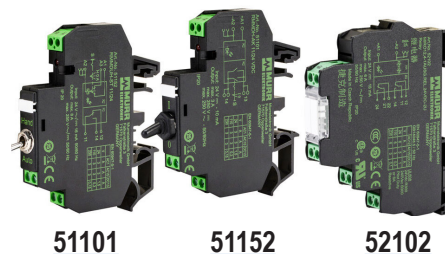
Interface Relays

Overview

Murrelektronik Interface Relays are highly compact and lightweight relays especially useful where cabinet space is a consideration. Encased in a self-extinguishing plastic housing, these high quality relays offer a long useful life. Great for use with PLC automation systems, electric power plants, energy management systems, medium voltage panels, industrial machines, and more.

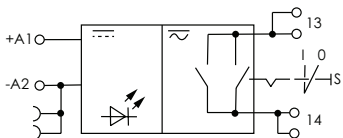
Features

- 35mm DIN-rail mount
- Status Indicator LED - Relay energized
- Wide range of coil voltage from 24 to 230 VDC/VAC
- High level of electromagnetic compatibility (EMC)
- Self-extinguishing plastic housing

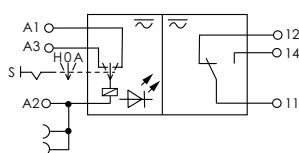


| Interface Relays | | | | | | | |
|-----------------------|---------|--------------|---------------|----------------|--------------|---------------------------|---------------------|
| Part Number | Price | Coil Voltage | Configuration | Contact Rating | Load Voltage | Action | Drawing Link |
| 51101 | \$29.50 | 24 VDC | SPST | 3A | 250 VAC/VDC | manual-auto toggle switch | PDF |
| 51152 | \$27.00 | 24 VAC/VDC | SPDT | 8A | 250 VAC/VDC | H-O-A toggle switch | PDF |
| 52102 | \$19.50 | 24 VDC | DPDT | 6A | 250 VAC/VDC | - | PDF |
| 52103 | \$22.50 | 24 VAC/VDC | DPDT | 6A | 250 VAC/VDC | - | PDF |
| 52111 | \$25.50 | 24 VAC/VDC | DPDT | 6A | 250 VAC/VDC | - | PDF |
| 52130 | \$32.50 | 110 VAC/VDC | DPDT | 6A | 250 VAC/VDC | - | PDF |
| 52140 | \$44.00 | 230 VAC/VDC | DPDT | 6A | 250 VAC/VDC | - | PDF |

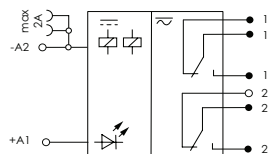
Wiring Diagrams



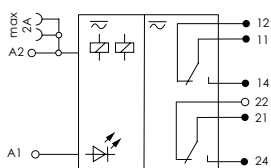
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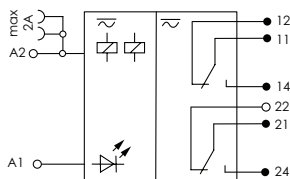
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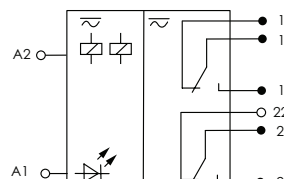
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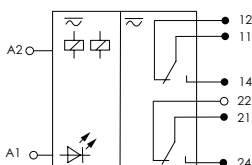
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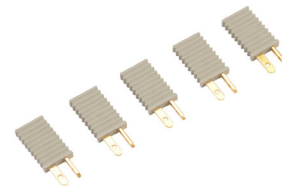
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Interface Relays Specifications

| Interface Relays Specifications | | | | | | | | |
|----------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Part Number | 51101 | 51152 | 52102 | 52103 | 52111 | 52130 | 52140 | |
| Input Specifications | | | | | | | | |
| Nominal Voltage | 24VDC | 24 VAC/VDC 50/60 Hz | 24VDC | 24 VAC/VDC 50/60 Hz | 24 VAC/VDC 50/60 Hz | 110 VAC/VDC 50/60 Hz | 230 VAC/VDC 50/60 Hz | |
| Operating Voltage Range | 19.2–28.0 VDC | 19.2–28.0 VAC/VDC | 19.2–30.0 VDC | 19.2–30.0 VAC/VDC | 19.2–30.0 VAC/VDC | 95.0–121 VAC/VDC | 195.0–253.0 VAC/VDC | |
| Power Consumption | AC | n/a | 0.38 VA | n/a | 0.48 VA | 0.48 VA | 0.8 VA | 1VA |
| | DC | 0.24 W | 0.38 W | 0.43 W | 0.48 W | 0.48 W | 0.8 W | 1W |
| Contact Specifications | | | | | | | | |
| Type | SPST | SPDT | DPDT | DPDT | DPDT | DPDT | DPDT | DPDT |
| Material | Silver Nickel (Ag Ni 015) | Silver Nickel (Ag Ni 015) | Silver Tin Oxide (Ag Sn 02) | Silver Tin Oxide (Ag Sn 02) | Silver Tin Oxide (Ag Sn 02) | Silver Tin Oxide (Ag Sn 02) | Silver Tin Oxide (Ag Sn 02) | Silver Tin Oxide (Ag Sn 02) |
| Operate Time Max | 10ms | 10ms | 15ms | 15ms | 15ms | 15ms | 15ms | 15ms |
| Release Time Max | 15ms | 20ms | 20ms | 20ms | 20ms | 20ms | 20ms | 20ms |
| Wire Size Max | 14 AWG (stranded) / 12 AWG (solid) | | | | | | | |
| Max Ratings | AC | 3A/250 VAC 1250VA | 8A/250 VAC 2000VA | 6A/250 VAC 1500VA | 6A/250 VAC 1500VA | 6A/250 VAC 1500VA | 6A/250 VAC 1500VA | 6A/250 VAC 1500VA |
| | DC | 3A/250 VDC 240W | 8A/250 VDC 240W | 6A/250 VDC 120W | 6A/250 VDC 120W | 6A/250 VDC 120W | 6A/250 VDC 120W | 6A/250 VDC 120W |
| Minimum Load | 100mA | 100mA | 100mA | 100mA | 100mA | 1mA | 100mA | 5mA |
| Mechanical Life Time | 10 x 10 ⁶ operations | | | | | | | |
| Electrical Life Time | 6 x 10 ⁴ operations | | | | | | | |
| General Specifications | | | | | | | | |
| Connection | Screw terminal (M3) | | | | | | | |
| Tightening Torque | 0.2 N·m (+0.1) | | | | | | | |
| Ambient Temperature | -25 to +60°C [-13 to +140°F] | -25 to +50°C [-13 to +122°F] | -25 to +60°C [-13 to +140°F] | -25 to +60°C [-13 to +140°F] | -25 to +60°C [-13 to +140°F] | -25 to +60°C [-13 to +140°F] | -25 to +50°C [-13 to +122°F] | -25 to +60°C [-13 to +140°F] |
| Storage Temperature | -40 to +80°C [-40 to +176°F] | | | | | | | |
| Protection Rating | IP20 | | | | | | | |
| Mounting | 35mm DIN-rail | | | | | | | |
| Relay Indicator | Red LED | Red LED | Green LED | Green LED | Yellow LED | Green LED | Green LED | Green LED |
| Weight (g [oz]) | 43.0 [1.51] | 46.0 [1.62] | 55 [1.91] | 55 [1.91] | 55 [1.91] | 55 [1.91] | 55 [1.91] | 55 [1.91] |
| Agency Approvals and Standards * | CE | | | CSA 1252427, cURus E140415, CE | | | | |

* To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

| Interface Relays Accessories | | |
|------------------------------|---------|--|
| Part Number | Price | Description |
| 90962 | \$15.00 | Murrelektronik interface relay plug link, push-in type, 2-pole, gray. Package of 5. For use with MurrElektronik 51152 and 51101 interface relays. |



[90962](#)