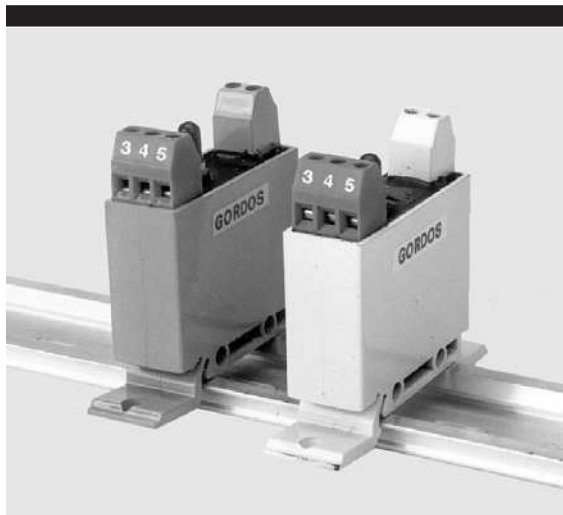


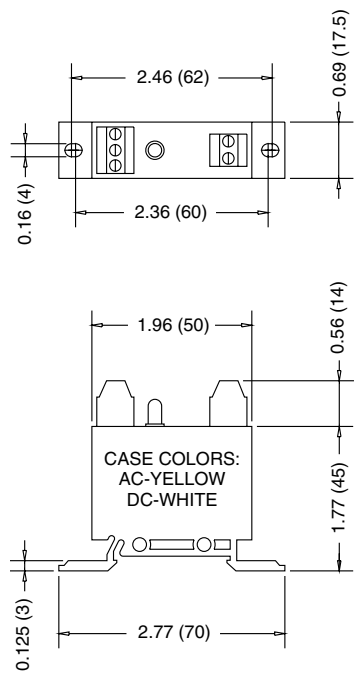
DIGITAL I/O MODULES

DIN-RAIL MOUNTABLE INPUT MODULES

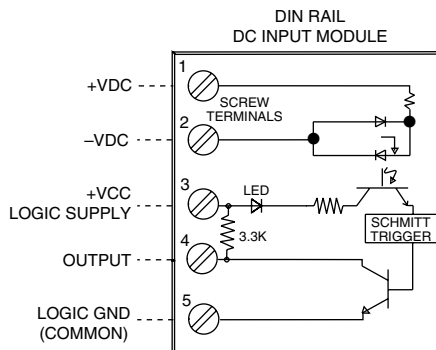
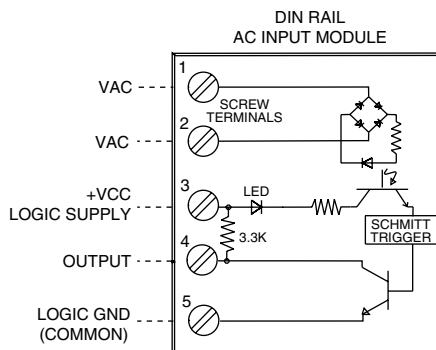


FEATURES:

- CE Compliant
- DIN-Rail Mountable Single Point Input Modules
- AC Inputs for 24 V, 120 V, 240 V
- DC Inputs for 3.3 to 32 V, 10 to 48 V
- UL Recognized (E46203)/CSA Certified (38595)
- 4 kV Optical Isolation
- Open-Collector Output, with LED Indicator
- Input and Output Barrier Strips Accept 14 to 28 AWG Wire
- Configured for Panel Mounting



DIMENSIONS: INCHES (MILLIMETERS)
TOLERANCE: ± 0.020 (± 0.50)



(EQUIVALENT CIRCUIT DIAGRAMS)

Products and specifications subject to change without notice.
Consult factory for application assistance.

DIGITAL I/O MODULES

DIN-RAIL MOUNTABLE INPUT MODULES

INPUT SPECIFICATIONS: (1)

| Model Number | DRIAC5 DRIAC24 | DRIAC5A DRIAC24A | DRIDC5 DRIDC24 | DRIDC5A DRIDC24A |
|---------------------------|-------------------|---------------------|-------------------|---------------------|
| Parameter | | | | |
| Nominal Voltage | 120 VAC | 240 VAC | 5-28 VDC | 12-48 VDC |
| Maximum Voltage | 140 VAC/VDC | 280 VAC/VDC | 32 VDC/VAC | 48 VDC |
| Minimum Voltage | 90 VAC/VDC | 180 VAC/VDC | 4.0 VDC/VAC | 10 VDC |
| Resistance (2) | 28 kΩ | 75 kΩ | 1 kΩ | 2 kΩ |
| Maximum Current (3) | 5.0 mArms | 5.0 mArms | 34 mA | 34 mA |
| Drop-out Current (4) | 2.0 mArms | 1.5 mArms | 1.0 mA | 1.0 mA |
| Allowable Current/ | 2.5 mArms | 2.0 mArms | 1.5 mA | 1.5 mA |
| Voltage for No Output (5) | 50 VAC/VDC | 50 VAC/VDC | 2.0 VDC | 4.0 VDC |

OUTPUT SPECIFICATIONS: (1)

| Model Number | DRIAC5 DRIAC5A DRIDC5 DRIDC5A | DRIAC24 DRIAC24A DRIDC24 DRIDC24A | Units |
|--|--|--|-------|
| Parameter | | | |
| Nominal Logic Supply Voltage | 5.0 | 24.0 | VDC |
| Maximum Logic Supply Voltage | 6.0 | 30.0 | VDC |
| Minimum Logic Supply Voltage | 3.0 | 20.0 | VDC |
| Maximum Logic Supply Current (6) | 28.0 | 28.0 | mA |
| Maximum Logic Supply Leakage Current (7) | 10.0 | 10.0 | μA |
| Maximum Voltage (8) | 30.0 | 30.0 | VDC |
| Maximum Current (9) | 50.0 | 50.0 | mA |
| Maximum Leakage Current (10) | 10.0 | 10.0 | μA |
| Maximum Voltage Drop (11) | 0.2 | 0.2 | VDC |

GENERAL SPECIFICATIONS: (1)

| Model Number | DRIAC5 DRIAC5A DRIAC24 DRIAC24A | DRIDC5 DRIDC5A DRIDC24 DRIDC24A | Units |
|-------------------------------------|--|--|-------|
| Parameter | | | |
| Operating Temperature Range | -30 to 80 | -30 to 80 | °C |
| Storage Temperature Range | -40 to 100 | -40 to 100 | °C |
| Maximum Turn-on Time (12) | 20 | 1.0 | mSec |
| Maximum Turn-off Time (12) | 30 | 1.0 | mSec |
| Input/Output Isolation Voltage (13) | 4000 | 4000 | VAC |
| Input/Output Capacitance (typical) | 8 | 8 | pF |
| Line Frequency Range | 47 to 63 | DC | Hertz |

TABLE OF MODEL NUMBER SUFFIXES IDENTIFYING OPTIONAL FEATURES

| Suffix | Feature |
|--------|--|
| A | High voltage versions (240 VAC for AC modules), (48 VDC for DC modules). |

Notes:

- (1) Specifications apply to an ambient temperature of -30 to 80°C unless otherwise noted.
- (2) Resistance values for IAC modules are effective impedance values at 25°C.
- (3) Measured at maximum specified input voltage, 25°C.
- (4) Defined as the maximum current allowed through the module's input to guarantee that the output will switch from "on" to "off." Higher currents may result in the output remaining in the "on" state.
- (5) Defined as the maximum current allowed through the module's input that will not switch the module's output state from "off" to "on."
- (6) At maximum specified logic supply voltage and 25°C.
- (7) At maximum specified logic voltage and 25°C.
- (8) Maximum allowable applied voltage across open collector output transistor. Factory recommends this voltage not exceed logic voltage.
- (9) Maximum allowable sinking current through open collector output transistor.
- (10) At maximum output voltage and 25°C.
- (11) At maximum allowable output current and 25°C.
- (12) At nominal logic supply voltage, 25 mA output sinking current, nominal input voltage and 25°C.
- (13) At 25°C for 1 second maximum duration.

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