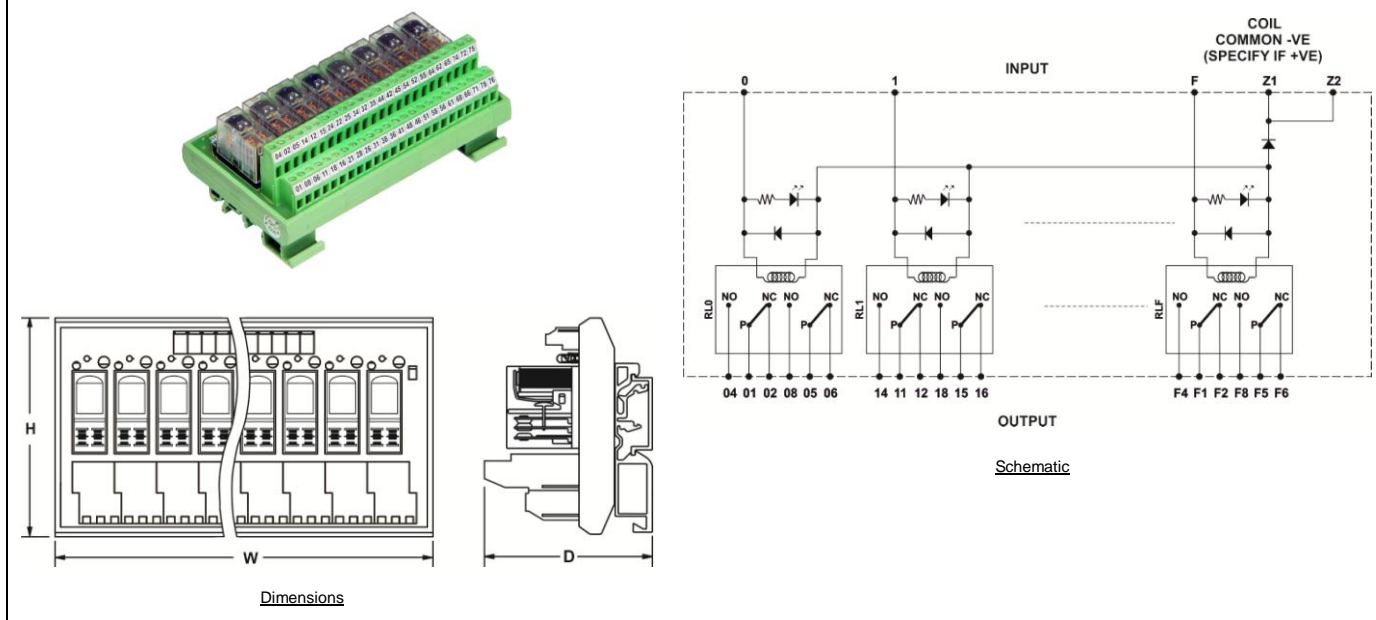


2 C/O RELAY INTERFACE MODULES

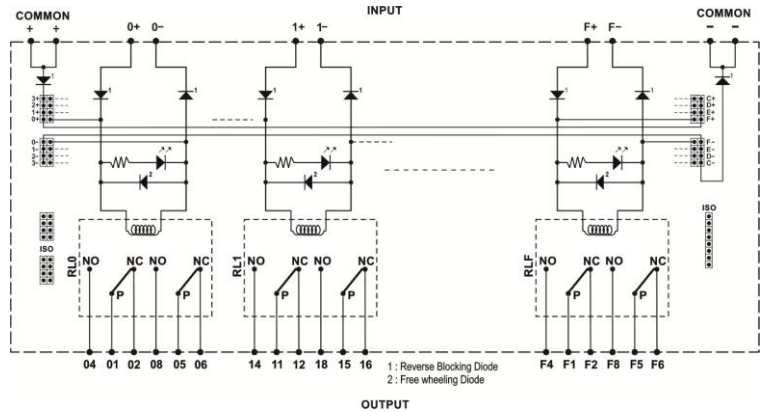
2 C/O Modules With Looped Coils



| | | | | | | | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------|------------------------------------|-------------------------------|--------------------------------|----------------------------------|---------------------|
| FEATURES | LED & Free wheeling diode across coil Reverse Polarity blocking diode | | | | | | | |
| CONTACT CONFIGURATION | 2C/O | | | | | | | |
| NO. OF CHANNELS | 1, 2, 4, 8, 12, 16 | | | | | | | |
| RELAY | NOMINAL COIL VOLTAGE | 5VDC | 6VDC | 12VDC | 24VDC | 48VDC | | |
| | MUST OPERATE VOLTAGE | 4.7VDC | 5.5VDC | 10.3VDC | 20.3VDC | 39.1VDC | | |
| | MUST RELEASE VOLTAGE | 1.7VDC | 1.9VDC | 3.1VDC | 5.9VDC | 10.3VDC | | |
| | MAX. COIL VOLTAGE | 5.5VDC | 6.6VDC | 13.2 VDC | 26.4VDC | 52.8VDC | | |
| | COIL CURRENT PER CHANNEL ⁽¹⁾ | 110mA | 95mA | 50mA | 25mA | 15mA | | |
| | OPERATE (SET) TIME | 15ms max. | | | | | | |
| | RELEASE (RESET) TIME | 20ms max. | | | | | | |
| | ENDURANCE | Electrical : 100,000 operations min. (at 1,800 operations/hr) | | | | | | |
| | MAX. OPERATING FREQUENCY | Mechanical : 18,000 operations/hr Electrical : 1,800 operations/hr | | | | | | |
| DIELECTRIC STRENGTH | 1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute 2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute 3. Contacts of different polarity : 1KVAC , 50/60 Hz for 1 minute 4. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute 5. Contacts - channel to channel : 1.5KVAC, 50/60 Hz for 1 minute | | | | | | | |
| CONTACT RATING | RELAY | 5A@28VDC/230VAC | | | | | | |
| | ON BOARD | 5A@28VDC/230VAC | | | | | | |
| OPERATING AMBIENT | 0~55°C, 85% RH | | | | | | | |
| STORAGE AMBIENT | -20°C to 85°C | | | | | | | |
| TERMINATIONS | COIL TERMINATION | Screw type, for 1.5mm sq. wire | | | | | | |
| | CONTACT TERMINATION | Screw type, for 2.5mm sq. wire | | | | | | |
| MOUNTING | 35 mm DIN rail | | | | | | | |
| ORDERING INFORMATION | AS371 - 24V - N - S - OE | | | | | | | |
| | NO. OF RELAYS | DESIGN NO. | COIL VOLTAGE | COIL LOOPING | RELAY SOCKET | RELAY MAKE | DIMENSIONS W x H x D (mm) | WEIGHT (MAX) |
| | 1 | AS371 | 12V : 12VDC 24V : 24VDC | N : -Ve LOOPING P : +Ve LOOPING | S : WITH SOCKET : SOLDERED | OE : OEN 58 OL : OMRON G2RL | 24 x 80 x 70 | 70 grams |
| | 2 | AS372 | | | | | 46 x 80 x 70 | 110 grams |
| | 4 | AS373 | | | | | 68 x 80 x 70 | 200 grams |
| | 8 | AS375 | | | | | 137 x 80 x 70 | 360 grams |
| | 12 | AS376 | | | | | 204 x 80 x 70 | 550 grams |
| 16 | AS377 | 295 x 80 x 70 | | | | | 750 grams | |

Note: 1. Current including LED current.

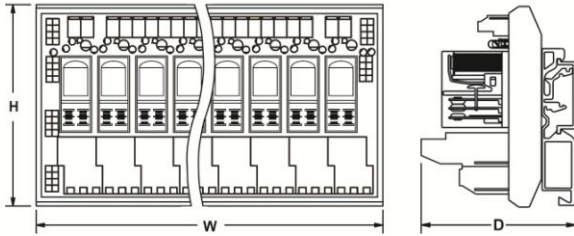
2 C/O Modules With Jumpers for Coil Looping & Reverse Blocking Diodes



Schematic

Note: Default jumper setting is isolated.

For Negative looping of coils place jumpers at 0-, 1-, 2-, ..., F-.
For Positive looping of coils place jumpers at 0+, 1+, 2+, ..., F+.
For Isolated coils place jumpers at ISO.

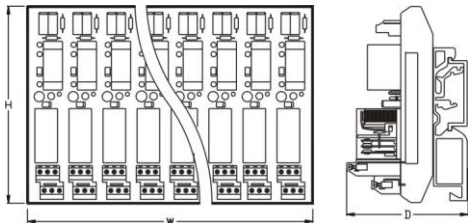


Dimensions

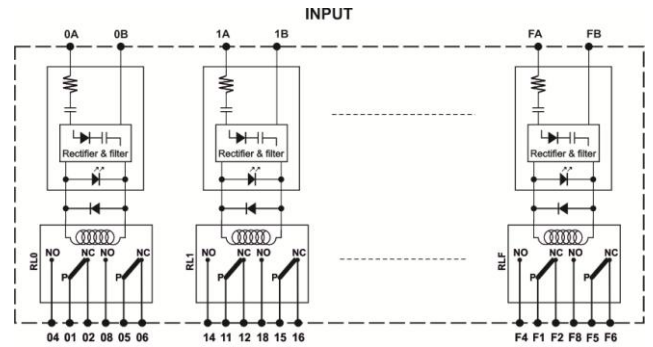
| | | | | | | |
|------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|-------------------------------|--------------------------------|----------------------------------|
| FEATURES | LED & Free wheeling diode across coil Jumpers for Coil Looping Reverse Polarity blocking diode | | | | | |
| CONTACT CONFIGURATION | 2C/O | | | | | |
| NO. OF CHANNELS | 1, 2, 4, 8, 12, 16 | | | | | |
| RELAY | NOMINAL COIL VOLTAGE | 5VDC | 6VDC | 12VDC | 24VDC | 48VDC |
| | MUST OPERATE VOLTAGE | 4.7VDC | 5.5VDC | 11.0VDC | 21VDC | 39.8VDC |
| | MUST RELEASE VOLTAGE | 1.7VDC | 1.9VDC | 3.8VDC | 6.2VDC | 11.0VDC |
| | MAX. COIL VOLTAGE | 5.5VDC | 6.6VDC | 13.2 VDC | 26.4VDC | 52.8VDC |
| | COIL CURRENT PER CHANNEL⁽¹⁾ | 110mA | 95mA | 50mA | 25mA | 15mA |
| | OPERATE (SET) TIME | 15ms max. | | | | |
| | RELEASE (RESET) TIME | 20ms max. | | | | |
| | ENDURANCE | Electrical : 100,000 operations min. (at 1,800 operations/hr) | | | | |
| DIELECTRIC STRENGTH | 1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute | | | | | |
| | 2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute | | | | | |
| | 3. Contacts of different polarity : 1KVAC , 50/60 Hz for 1 minute | | | | | |
| | 4. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute | | | | | |
| | 5. Contacts - channel to channel : 1.5KVAC, 50/60 Hz for 1 minute | | | | | |
| CONTACT RATING | RELAY | 5A@28VDC/230VAC | | | | |
| | ON BOARD | 5A@28VDC/230VAC | | | | |
| OPERATING AMBIENT | 0~55°C, 85% RH | | | | | |
| STORAGE AMBIENT | -20°C to 85°C | | | | | |
| TERMINATIONS | COIL TERMINATION | Screw type, for 1.5mm sq. wire | | | | |
| | CONTACT TERMINATION | Screw type, for 2.5mm sq. wire | | | | |
| MOUNTING | 35 mm DIN rail | | | | | |
| ORDERING INFORMATION | AS391,-24V,-S,-OE | | | | | |
| | NO. OF RELAYS | DESIGN NO. | COIL VOLTAGE | RELAY SOCKET | RELAY MAKE | DIMENSIONS W x H x D (mm) |
| | 1 | AS391 | 12V : 12VDC 24V : 24VDC | S : WITH SOCKET : SOLDERED | OE : OEN 58 OL : OMRON G2RL | 24 x 80 x 70 |
| | 2 | AS392 | | | | 46 x 80 x 70 |
| | 4 | AS393 | | | | 68 x 80 x 70 |
| | 8 | AS395 | | | | 137 x 80 x 70 |
| | 12 | AS396 | | | | 204 x 80 x 70 |
| 16 | AS397 | 295 x 80 x 70 | | | | |
| WEIGHT (MAX) | | | | | | |
| 100 grams | | | | | | |
| 190 grams | | | | | | |
| 310 grams | | | | | | |
| 400 grams | | | | | | |
| 610 grams | | | | | | |
| 830 grams | | | | | | |

Note : 1. Current including LED current.

2 C/O Modules With High Voltage Isolated coils



Dimensions



Schematic

| | | | | | | |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------|-------------------------------|--------------------------------|--------------------------------------|
| FEATURES | LED & Free wheeling diode across coil | | | | | |
| CONTACT CONFIGURATION | 2C/O | | | | | |
| NO. OF CHANNELS | 1, 2, 4, 6, 8 | | | | | |
| RELAY | NOMINAL COIL VOLTAGE⁽¹⁾ | 48VDC | 110VDC | 110VAC | 230VAC | |
| | MUST OPERATE VOLTAGE | 40VDC | 90VDC | 99VAC | 207VAC | |
| | MUST RELEASE VOLTAGE | 10VDC | 20VDC | 20VAC | 45VAC | |
| | MAX. COIL VOLTAGE | 55VDC | 130VDC | 130VAC | 270VAC | |
| | COIL CURRENT PER CHANNEL⁽²⁾ | 25mA | 25mA | 25mA | 25mA | |
| | OPERATE (SET) TIME | 15ms max. | | | | |
| | RELEASE (RESET) TIME | 20ms max. | | | | |
| | ENDURANCE | Electrical : 100,000 operations min. (at 1,800 operations/hr) | | | | |
| MAX. OPERATING FREQUENCY | Mechanical : 18,000 operations/hr Electrical : 1,800 operations/hr | | | | | |
| DIELECTRIC STRENGTH | 1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute 2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute 3. Contacts of different polarity : 1KVAC , 50/60 Hz for 1 minute 4. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute 5. Contacts - channel to channel : 1.5KVC, 50/60 Hz for 1 minute | | | | | |
| CONTACT RATING | RELAY | 5A@28VDC/230VAC | | | | |
| | ON BOARD | 5A@28VDC/230VAC | | | | |
| OPERATING AMBIENT | 0~55°C, 85% RH | | | | | |
| STORAGE AMBIENT | -20°C to 85°C | | | | | |
| TERMINATIONS | COIL TERMINATION | Screw type, for 2.5mm sq. wire | | | | |
| | CONTACT TERMINATION | Screw type, for 2.5mm sq. wire | | | | |
| MOUNTING | 35 mm DIN rail | | | | | |
| ORDERING INFORMATION | AS431 - 230VAC - S - OE | | | | | |
| | NO. OF RELAYS | DESIGN NO. | COIL VOLTAGE⁽¹⁾ | RELAY SOCKET | RELAY MAKE | DIMENSIONS W x H x D (mm) |
| | 1 | AS431 | DC VOLTAGE 48VDC 110VDC | S : WITH SOCKET : SOLDERED | OE : OEN 58 OL : OMRON G2RL | 24 x 115 x 70 |
| | 2 | AS432 | | | | 46 x 115 x 70 |
| | 4 | AS433 | AC VOLTAGE 110VAC 230VAC | | | 91 x 115 x 70 |
| | 6 | AS434 | | | | 137 x 115 x 70 |
| | 8 | AS435 | | | | 159 x 115 x 70 |
| | | | | | | WEIGHT (MAX) |
| | | | | | | 90 grams |
| | | | | | | 160 grams |
| | | | | | | 270 grams |
| | | | | | | 390 grams |
| | | | | | | 500 grams |

Note : 1. These modules are with basic relay of 24VDC coil along with suitable voltage converter.
2. Current including LED current.