Relay Modules:

Relay Modules with Solid State Relay

- DIN 35 mounted.
- Relay module with 8/4 solid state relays are directly soldered and are available with DC & AC output typeSSR.
- The input voltage is 24V DC & rated load current 3A.
- Jumpers are provided to select between positive looping / negative looping.
- Polarity protection is given by free wheeling diodes.
- Fuse & fuse blown indication option is available in contact path.

Applications

- Cement industries.
- Petrochemical Industries.
- Machine Tool Manufactures.

Passive Modules

- DIN 35 mounted.
- Passive module have Screw Terminal connectors at one end and Flat Ribbon Connector, D-Sub Male &Female connector, ELCO connector and RJ45 connector at the other end.
- Input & Output are electrically connected with each other in 1:1 connection.

Applications

- Automotive Industries.
- SPM Manufacturers.
- Waste Water Plant.

Advantages of Relay Modules Over Relay

Easy Mounting, Space Saving, Cost Effective, Easy Trouble Shooting, Easy Wiring.

RELAY MODULES

Accessory Modules

- Utility module is used as a junction box for panellighting and fan load in control panels.
- It has on board 5A utility socket with switch, which canbe used for tapping 230V AC by simply plugging any 5A power plug.
- Power distribution modules are used for distributingpower to multiple field devices.
- Two separate rows of terminal blocks are internally bridged for powering multiple field devices by one power supply.
- 10A / 20A / 40A diode o-ring modules are used whentwo SMPS are connected in parallel (Redundancy).

DI/DO Module & CNC Modules

- DIN 35 mounted.
- Relay module with 16 relays for interfacing with PLC &field devices.
- Fuse & fuse blown indication option is available incontact path.
- In DI/DO modules different types of connectors can be provided at Input/Output side for direct connection of relay module with PLC.
- CNC module is having 24 inputs and 16 outputs.
- It serve the purpose of one passive module (for CNCinputs) and one 16 channel relay module (for CNC outputs) on single module

Applications

- Industrial Control System.
- Panel Manufactures.
- Machine Tool Manufactures.

Applications

- Industrial Control System.
- All PLC Control System.
- Panel Manufactures.
- Cement industries.
- Machine Tool Manufactures.
- Petrochemical Industries.

CUSTOMISED RELAY MODULES

TT-IMRB-08024D1S-C

- 1C/O relay module with 16/8/4/2/1 miniature relays.
- Coil voltage 24V DC/12V DC/48V DC/110V DC.
- Freewheeling diode across relay coil for protection.
- Jumpers are provided for selection between positive looping / negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D1S-C(Sealed)

- 8 channel electromechanical relay module.
- With 1C/O G2R-14 sealed relays.
- Input voltage 24V DC.
- Max. switching current 10A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-06024D1

- 1C/O relay module with 6 miniature relays.
- Coil voltage 24V DC/12V DC/48V DC/110V DC.
- Relays pluggable / directly soldered.
- Freewheeling diode across relay coil for protection.
- Relays negatively looped (negative common) at coil side.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1S-C(S-108)

- Compact relay module with slim electromechanical relays.
- 16/8/4 channels relay module with base (Relay-pluggable).
- Input voltage 24V DC/5V DC/12V DC/48V DC/60V DC.
- Maximum load current 6A.
- Jumpers are provided for selection between positive looping /negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D1S-C(FFI)

- 1C/O & 2C/O relay module with 4/8/16 miniature relays.
- Coil voltage 24V DC/12V DC/48V DC/110V DC.
- Freewheeling diode across relay coil for protection.
- Fuse with fuse blown indication in contact path.
- Jumpers are provided for selection between positive looping / negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-16024D1S-C(I/P-FFI)

- 16 channel electromechanical relay module.
- 1C/O having fuse & fuse fail indication at input (coil) side.
- Input voltage 24V DC.
- Max. switching current 10A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

CUSTOMISED RELAY MODULES

TT-IMRB-08024D1S-C(F)

- 1C/O & 2C/O relay module with 4/8/16 miniature relays.
- Coil voltage 24V DC/12V DC/48V DC/110V DC.
- Freewheeling diode across relay coil for protection.
- Fuse are provided in contact path.
- Jumpers are provided for selection between positive looping / negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-080230A1S-IDEC

- 8 channel electromechanical relay module.
- With 1C/O IDEC make RJ1V relays.
- Input voltage 230V AC.
- Max. switching current 12A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-160230A1S-C(I/P-FFI)

- 16 channel electromechanical relay module.
- 1C/O having fuse & fuse fail indication at input (coil) side.
- Input voltage 230V AC.
- Max. switching current 10A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-06024D1-G5LA

- 6 channel electromechanical sugar cube relay module.
- With 1C/O Omron make G5LA sugar cube relays.
- Input voltage 24V DC.
- Max. switching current 10A.
- Relays directly soldered.
- Mounting DIN 35 carrier rail.

TT-IMRB-080230A1S

- 1C/O relay module with 16/8/4/2/1 electromechanical relays.
- With base (Relay-pluggable).
- Freewheeling diode across relay coil for protection.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D1-C(1NO-OJ)

- 8 channel electromechanical relay module.
- With 1 NO contact, Tyco make OJ-SH relays.
- Input voltage 24V DC.
- Max. switching current 8A.
- Relays directly soldered.
- Mounting DIN 35 carrier rail.

CUSTOMISED RELAY MODULES

TT-IMRB-080230A1S-C(I/P-F)

- 8 channel electromechanical relay module.
- With 1C/O having fuse protection at input side.
- Input voltage 230V AC.
- Max. switching current 10A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D2S-C(RT)

- 8 channel electromechanical relay module.
- With 2C/O Tyco make sealed relays.
- Input voltage 24V DC.
- Max. switching current 8A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D2S-C

- 2C/O relay module with 16/8/4/2/1 miniature relays.
- Coil voltage 24V DC/12V DC/48V DC/110V DC.
- Freewheeling diode across relay coil for protection.
- Jumpers are provided for selection between positive looping / negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D2S-C(G2RL sealed)

- 8 channel electromechanical relay module.
- With 2C/O Omron make sealed relays.
- Input voltage 24V DC.
- Max. switching current 8A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-080230A2S

- 2C/O relay module with 16/8/4/2/1 electromechanical relays.
- With base (Relay-pluggable).
- Freewheeling diode across relay coil for protection.
- Mounting DIN 35 carrier rail.

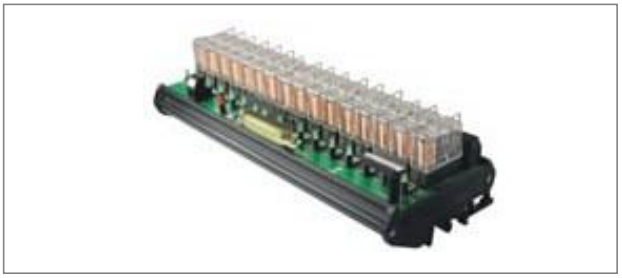
TT-IMRB-04024D4S-C

- 4C/O relay module with 8/4/2 miniature relays.
- Coil voltage 24V DC/12V DC/48V DC/110V DC/220V DC.
- Freewheeling diode across relay coil for protection.
- Jumpers are provided for selection between positive looping /negative looping.
- Mounting DIN 35 carrier rail.

CUSTOMISED RELAY MODULES

TT-IMRB-02024D4S-C(RU)

- 2 channel electromechanical relay module.
- With 4C/O IDEC make RU4S relays.
- Input voltage 24V DC.
- Max. switching current 6A.
- Relay pluggable on socket.
- Mounting DIN 35 carrier rail.

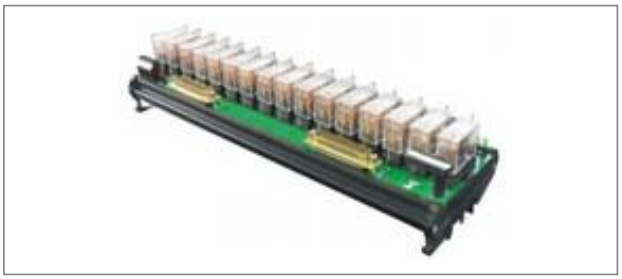


TT-IMRB-16024D2S-DO(D25M)

- 2C/O DO module with 16 miniature relays.
- Coil voltage 24V DC.
- Used for interfacing PLC digital output to field devices.
- Elimination of single core wiring, connection through a pre-fabplug in cable.
- Mounting DIN 35 carrier rail.

TT-IMRB-16024D1S-CNC

- CNC module having 24 inputs and 16 outputs.
- Serve the purpose of one passive module (for CNC inputs) and one 16 channel relay module (for CNC outputs) on singlemodule.
- Module with 16 interposing relays.
- Coil voltage 24V DC.
- FRC 50 connector is provided on input side of the CNC module for the termination of CNC inputs and outputs.
- Mounting DIN 35 carrier rail.



TT-IMRB-16024D2S-DI2X25M

- 2C/O DI module with 16 miniature relays.
- Coil voltage 24V DC.
- Used for interfacing PLC digital inputs to field devices.
- Freewheeling diode across relay coil for protection.
- Elimination of single core wiring, connection through a pre-fabplug in cable.
- Mounting DIN 35 carrier rail.

TT-IMRB-16024D1S-DO(F20)

- Module with 16 interposing relays.
- With base (Relay-pluggable).
- Coil voltage 24V DC.
- 1 change over.
- Green LED for input status.
- Freewheeling diode across relay coil for protection.
- FRC 20 connector is provided on input side.
- Mounting DIN 35 carrier rail.

TT-IMPB-Diode Module (10A)

- 10A/20A/40A diode o-ring modules are used when two SMPSare connected in parallel (Redundancy).
- 10A module is used to connect 2 power supplies of 5A each.
- 20A module is used to connect 2 power supplies of 10A each.
- 40A module is used to connect 2 power supllies of 20A each.
- Increases overall system efficiency.
- Improves system reliability.
- Simple & inexpensive to implement.
- Mounting DIN 35 carrier rail.

TRINITY® TOUCH

CUSTOMISED RELAY MODULES

TT-IMPB-F40

- Passive module having screw terminal connectors at oneend and flat ribbon connector at other end.
- Input & output are electrically connected with each otherin 1:1 connection.
- Mounting DIN 35 carrier rail.

TT-IMPB-D25F

- Passive module having screw terminals connectors at oneend and D-Sub male/female connector at other end.
- Input & output are electrically connected with each other in1:1 connection.
- Mounting DIN 35 carrier rail.

TT-IMPB-ELCO38 (R)

- Passive module having screw terminal connectors at oneend and 38/58 pin male connector at other end.
- Input & output are electrically connected with each other in1:1 connection.
- Mounting DIN 35 carrier rail.

TT-IMPB-RJ45 (H)

- Passive module having screw terminal connectors at oneend and RJ45 connector at other end.
- Input & output are electrically connected with each otherin 1:1 connection.
- Mounting DIN 35 carrier rail.

TT-IMPB-Utility

- Utility module is used as a junction box for panel lighting andfan load in control panels.
- It has on board 5-Amp utility socket with switch, which can beused for tapping 230V AC by simply plugging any 5 Amp power plug.
- By default some points are for 230V AC and others are for 110V AC but with the help of external wire jumpers, completemodule can be used at single potential.
- Mounting DIN 35 carrier rail.

TT-IMPB-PDM

- Power distribution modules are used for distributing power tomultiple field devices.
- Installation time is significantly reduced because we have eliminated the need for external bridges or daisy-chain wiring.
- Simple & inexpensive to implement.
- Two separate rows of terminal blocks are internally bridged forpowering multiple field devices by one power supply.
- Mounting DIN 35 carrier rail.

CUSTOMISED RELAY MODULES

TT-IMRB-04024D1-SSR

- 4 channel SSR module.
- Input voltage 24V DC.
- Output voltage 24V DC.
- Max. load current 3A.
- Relay directly soldered.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1-240A(SSR-II)

- 8/4 channels SSR relay module with solid state relays.
- Relays directly soldered.
- Input voltage 24V DC and output voltage 240V AC.
- Jumpers are provided for selection between positive/negativelooping.
- Green LED for input status.
- Rated load current 3A.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1-240A(SSR)

- 4 channel SSR module.
- Input voltage 24V DC.
- Output voltage 240V AC.
- Max. load current 3A.
- Relay directly soldered.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D1-SSR(II)

- 8 channel SSR module.
- Input voltage 24V DC.
- Output voltage 24V DC.
- Max. load current 3A.
- With green status LED at input.
- Relays directly soldered.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1-SSR(II)

- 8/4 channels SSR relay module with solid state relays.
- Relays directly soldered.
- Input/Output voltage 24V DC & rated load current 3A.
- Green LED for input status.
- Jumpers are provided for selection between positive/negative looping.
- Free wheeling diodes are provided for polarity protection.

TT-IMRB-04024D1-SSR(FFI)

- 8/4 channels SSR relay module with solid state relays.
- Relays directly soldered.
- Input/Output voltage 24V DC & rated load current 3A.
- Green LED for input status & red LED for fuse fail indication.
- Jumpers are provided for selection between positive/negativelooping.
- Free wheeling diodes are provided for polarity protection.
- Mounting DIN 35 carrier rail.

CUSTOMISED RELAY MODULES

TT-IMRB-04024D1-SSR(VF-FFI)

- 4 channel SSR module.
- Input voltage 24V DC.
- Output voltage 24V DC.
- Max. load current 3A.
- With vertical fuse & fuse fail indication at output.
- Relay directly soldered.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1S-CSSRFFI(EL-5A)

- Relays mounted on sockets, foot prints same as 1C/O electromechanical type PCB relays.
- Input voltage: 24V DC.
- Output voltage: options available for both 24V DC & 230V AC.
- Green LED for input status and red LED for fuse fail indication.
- Jumpers are provided for selection of positive looping/negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1-240A(SSR-FFI)

- 8/4 channels SSR relay module with solid state relays.
- Relays directly soldered.
- Input voltage 24V DC and output voltage 240V AC.
- Fuses are provided at output.
- Green LED for input status and red LED at output for fuse fail indication.
- Rated load current 3A.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1S-C240ASSRFFI (CX-5A)

- 8 channel SSR module.
- Input voltage 24V DC.
- Output voltage 240V AC.
- Max. load current 5A.
- With fuse & fuse fail indication at output.
- Relays pluggable on socket.
- Mounting DIN 35 carrier rail.

TT-IMRB-04024D1S-C(S-SSR)

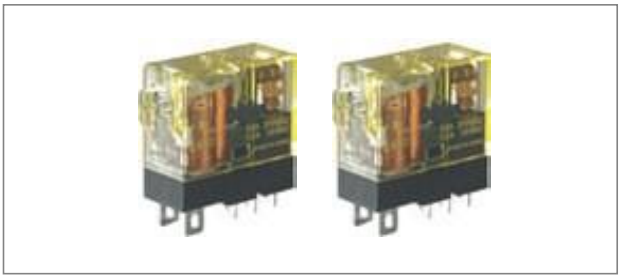
- 8/4 channels compact relay module with slim solid state relays.
- With base (Relay-pluggable).
- Input/Output voltage 24V DC & rated load current 3.5A.
- Jumpers are provided for selection between positive looping/ negative looping.
- Mounting DIN 35 carrier rail.

TT-IMRB-08024D1S-C(S-SSR)

- 8 channel compact SSR module.
- Input voltage 24V DC.
- Output voltage 24V DC.
- Max. load current 3.5A.
- Jumpers are provided for looping selection.
- 6 mm relays pluggable on socket.
- Mounting DIN 35 carrier rail.

Designed with attention to every detail, IDEC relays are manufactured toensure precision and quality.

Correlating sockets include multiple features for ease-of-use and can be DIN rail, panel or PCB mounted. Each socket is designed to work with IDEC timers and relays, but will work equallywell with any fitting component.



RJ Series

- Compact housing only 12.7mm wide.
- Large contact rating.
  RJ1S (1-pole) : 12A.
  RJ2S (2-pole) : 8A.
- Non-polarized LED indicator available.
- Electrical life : 200,000 operations (AC load).
  Mechanical life : 30 million operations (AC coil).
- UL recognized, CSA certified, EN compliant.

RV8H Series

- Space-saving 6 mm width.
- Only 70 mm in height from DIN rail.
- Gold-plated contacts.
- Pre-assembled relay and DIN mount socket.
- Spring clamp terminals.
- Universal AC/DC socket with built-in surge suppression and green LED.
- Wide input voltage range : 6 to 240V.
- 400V AC maximum switching voltage.

RJ Series - PCB

- SPDT, SPST-NO, DPDT, DPST-NO SPDT, SPST-NO are available in high capacity type.
- Compact housing - only 12.7mm wide.
- High contact rating.
  RJ1V (1-pole) : 12A, 16A.
  RJ2V (2-pole) : 8A.
- Electrical life : 200,000 operations (AC load).
  Mechanical life : 30 million operations (AC coil, SPDT, DPDT).
- Flux-tight structure.

RELAYS & SOCKETS FOR CONTROL PANEL

RU Series

- Two terminal styles : plug-in and PCB mount.
- Non-polarized LED indicator available on plug-in relays.
- Mechanical flag indicator available on plug-in relays.
- Manual latching lever with color coding for AC or DC coil.
- Snap-on yellow marking plate; optional marking plates are available in four other colours.
- Maximum contact ratings : 10A (RU2), 6A (RU4), 3A (Ru42).
- UL, CSA, c-UL, EN compliant.

RY/RM Series

- High density, 4PDT in a package less than .840" wide 4PDTand a "true" DPDT model.
- RM2 features fine silver 5A contacts.
- Blade plug-in or PCB terminals.
- Options include indicator light, check button, and top mounting bracket.
- Mounting options include top mounting, DIN socket, PCB socket, or panel mount socket.

RQ Series - PCB

- Low profile: 29x12.7x15 mm.
- Contact rating: 8A (DPDT) and 12A (SPDT).
- Power relay model with 16A contact rating (SPDT).
- Operational life : 100K cycles at full resistive load 10 million cycles, no load.
- LED/Diode Plug-in modules available with DIN rail socket.

RH Series

- Compact midget size saves space SPDT, DPDT, 3PDT, or4PDT AgCdO contacts.
- High switching capacity (10A).
- Choice of blade or PCB type terminals.
- Options include indicator light and check button.
- Mounting options include top mounting, DIN socket, or panel mount socket.

RR Series

- High reliability and long service life.
- SPDT, DPDT, or 3PDT pure silver contacts available with octal(8-pin and 11-pin) or .187" blade plug-in terminals.
- Worldwide approvals on octal (8-pin and 11-pin) models : UL, CSA, TUV, CE.
- Options include check button for test operation and indicatorlight.

RF1V Series

- Compact and EN compliant RF1V force guided relays.
- Force guided contact mechanism (EN50205 type a TÜV approved).
- Contact configuration 4-pole (2NO-2NC, 3NO-1NC) 6-pole (4NO-2NC, 5NO-1NC, 3NO-3NC).
- Built-in LED indicator available.
- High shock resistance (200 m/s2 minimum).
- Finger-safe DIN rail mount socket and PC board mount socket.

PS3L Power Supplies

- Universal input (DC compatible).
- Worldwide approvals: UL, CSA, TUV and CE.
- CSA No. 14, CSA No. 950 certified.
- Models from 10W to 300W.
- Output voltages 5V DC, 12V DC, 24V DC.
- 50W, 100W, 150W, 300W have built-in harmonic PFC circuits (EN61000-3-2).

PS3X Power Supplies

- Compact size.
- Universal AC input voltage.
- 5, 12 and 24V DC outputs.
- Available with mounting brackets for direct or DIN rail mounting.
- Over current/Over voltage protection.
- EMC, EN55022 Class B compliant.

PS5R Slim Line Power Supplies

- New 10W & New 15W, 30W, 60W, 90W, 120W, & 240 Models.
- Universal Input: 85-264VAC / 100-370VDC.
- Power factor correction (EN61000-3-2).
- 120W & 240W meet SEMI F47 Sag Immunity.
- UL 1604, Class 1, Div 2 Hazardous Locations (all units).
- UL 508 (all units).
- UL13010, NEC Class 2 (10W – 60W only).
- Unique spring-up finger-safe terminals, IP20.
- Din Rail or Surface Mount.
- Worldwide Approvals.

PS5R Standard Power Supplies

- Single-phase AC input (100 to 240VAC).
- Three-phase AC input (320 to 575VAC).
- Unique spring-up, IP20 finger safe terminals (ideal for ring lug terminated wire).
- DIN rail or panel mount.
- Nine output capacities.
- Worldwide approvals: UL (UL508), c-UL, TUV, and CE(both LVD and EMC).
- Fused input, auto-resetting output overcurrent protection.
- Worldwide approvals: UL (UL508), c-UL, TUV, and CE(both LVD and EMC).
- 75, 100, 120 & 240W models may be connected in parallel.

PS6R Multi Output Power Supplies

- High-power and space-saving switching power supplies. 93% efficiency reduces operation costs.
- Input voltage: 100 to 240V AC (voltage range: 85 to 264V AC /110 to 350V DC).
- The terminals are captive spring-up screws.
- Finger-safe prevents electric shocks.
- Panel mounting bracket and side-mounting panel mounting bracket. Can be attached to a DIN rail or directly to a panel surface.

PS6R Slim Power Supplies

- 93% efficiency.
- Power range: 120W, 240W, 480W.
- Up to 70C/158F operating temperature.
- DC low LED indicator and output contact.
- Panel mounting bracket and side-mount panel mounting bracket. Can be attached to a DIN rail or directly to a panel surface.
- RoHS compliant.

PLC

MICROSMART PROGRAMMABLE LOGIC CONTROLLERS

IDEC brought some of the first micro- PLCs to the market, and has been meetingyour changing control automation needs for decades. Our controllers meet the highest standards for safety, flexibility and value. Whether it is system flexibility, spacesaving, ease of maintenance or powerful programming features, IDEC's programmable logic controllers along with exceptional product support will exceed your expectations.

Connect Your Devices by Expanding to 7 Ports

PLC

MICROSMART PROGRAMMABLE LOGIC CONTROLLERS

Microsmart Pentra (FC5A Series)

- Fast processing speed.
- Support 32-bit data processing IEEE standard floating Pt.Math.
- Built-in Modbus master & slave.
- Field Upgradeable firmware.
- Up to 512 I/Os.
- Configure up to 56 Analog I/Os.
- Max. of 7 Communication ports.
- Embedded 100kHz HSC & Pulse Outputs.
- Online edit and simulation mode.

SmartAxis Controller(FT1A Series)

12, 24, 40 and 48 I/O CPUs

- Program memory up to 12, 24, 40 or 48KB.
- Available in 24V DC or 100-240V AC power.
- Available with or without LCD.
- Embedded mini-B USB programming port.
- 8pt. DC digital inputs.
- Embedded real-time clock.
- Built-in keypad.
- 4pt. 10 Amp relay contact.
- Optional memory cartridge.

SmartAXIS Touch

- 3.8" resistive touchscreen.
- 12 I/O PLC functions.
- 65K TFT or STN monochrome.
- 4pt. 10 Amp relay contacts.
- Built-in RS232C/RS422/RS485 interface terminal.
- Embedded mini-B USB programming port.
- Embedded USB-A port.
- 8pt. DC digital inputs.
- Embedded RJ45 Ethernet port.
- Available in silver, light and dark grey.
- IP66 protection.

Microsmart FC4A Series

- Available in slim or all-in-one styles.
- CPU units are equipped with 10, 16, 20, 24, or 40 I/Os.
- Maximum of 264 I/Os can be configured on a single MicroSmart CPU.
- Your choice of many expansion modules: AC/DC inputs, relay/transistor outputs, RTD/Thermocouple and Analog I/Os,and AS-interface master communication module.
- Standard RS232 port, optional plug-in RS485/RS232 port fordata link or modem communications.
- Built in Modbus-CRC, PID and Ramp functions.
- Data link for up to 32 MicroSmart or other IDEC PLCs.

FL1E Smart Relay

- Optional text message display panel.
- 4 built-in 0-10V analog inputs.
- 4 built-in 5 kHz high speed inputs.
- Universal voltage - 12-24 VDC, 24 VAC/DC, 100-240 VAC/DC.
- Bright, high contrast, and controllable backlit LCD.
- Extended programming memory.
- New USB programming cable.
- Worldwide approvals-cULus, CE, FM Class 1 Div 2, Lloyds. Registered, and ABS approved.

HMI

OPERATOR INTERFACE

HG 2G-5F/-5S/-S

- 5.7 inch TFT color/STN monochrome.
- Brightest in its class. 800 cd/m² (HG2G-5F).
- Fast-speed 400 Mhz CPU and unique software technology shorten startup time (HG2G-5F).
- 35.9 mm behind the panel.
- Ethernet interface installed.
- IP65 (front part when mounted) (IEC 60529).

HG1F

- 4.6-inch STN monochrome LCD.
- Clear legible display of 300x100 pixels.
  Panel depth : 35.3 mm.
- High contrast monochrome LCD, super bright 500 cd/m².
- Analog touch panel enables flexible screen layout..
- 16 adjustable brightness levels.
- Vertical display is possible.
- IP66 (front part) (IEC 60529).

HG4G/3G

- Excellent visibility achieved by super-bright LED back light.600 cd/m² (8.4-inch), 700 cd/m² (10.4-inch), 550 cd/m² (12.1-inch).
- High-resolution SVGA (800x600 pixels) and 65,536 colors provides high-quality display.
- More than 7000 graphic images available in the image library.
- Various images such as switches and pilot lights allow you to create your own screen.
- A maximum of four expansion MicroSmart I/O modules canbe mounted.
- Multimedia models with video and audio record and play backhigh quality images.
- Fast-speed 400 Mhz CPU and unique software technology shorten startup time.
- Fast USB 2.0 (480 Mbps) communication enable easy download/upload of project data.
- Data can be saved or transferred by using an SD card (32 GBmax.).
- Video and audio saved in an SD card can be played.
- IP 66 (front part when mounted) (IEC 60529).

RELAYS & SOCKETS FOR CONTROL PANEL

OMRON manufactures the world's broadest range of relays. Quality, innovation and customer service have been key elements of OMRON success.

Correlating sockets include multiple features for ease-of-use and can be DIN rail, panel or PCB mounted.

Each socket is designed to work with OMRON relays, but will work equally wellwith any fitting component.

G2R-(S) Series

- Slim and space-saving power plug-in relay.
- Lockable test button models now available.
- Built-in mechanical operation indicator.
- AC type is equipped with a coil-disconnection self diagnostic function (LED type).
- High switching power (1-pole: 10 A).
- RoHS Compliant.

MY4H Series

- Hermetically sealed relay ideal for hazardous locations.
- Class 1 Division 2 approved.
- Fully hermetically sealed for hazardous locations.
- Cadmium-free contacts for environment-friendly use.
- Models with bifurcated contact also available.
- UL recognized/CSA certified.

RELAYS & SOCKETS FOR CONTROL PANEL

MY Series

- Versatile, multi-featured, miniature power relay for sequence control and power switching applications.
- Multiple features available, including operation indicators (mechanical and LED indicators), lockable test button, built-indiode and CR (surge suppression), bifurcated contacts, etc.
- Max. Switching Current: 2-pole: 10 A, 4-pole: 5 A.
- RoHS Complaint.

MM Series

- Stable Contact Reliability and Long Life.
- A large selection of models including various contact forms,DC-switching models, and open models.
- Mechanical life: 5,000,000 operations; electrical life (under rated load): 500,000 operations.
- Models also available with built-in diodes and for use as auxiliary power relays.

LY Series

- A miniature power relay.
- Built-in diode models added to the LY Series.
- Single-pole and double-pole models are applicable to operating coils with ratings of 100/110 VAC, 110/120 VAC, 200/220 VAC, 220/240 VAC, or 100/110 VDC).
- Three-pole and four-pole models are applicable to operatingcoils with ratings of 100/110 VAC, 200/220 VAC, or 100/110 VDC).

MK-S Series

- New super MK relays.
- Models with latching lever added to the series.
- Built-in mechanical indicator enables checking contact operation.
- Two modes can be used to check circuits for models with latching lever.
- All materials are RoHS compliant.
- UL and IEC (TÜV) certification.

POWER PCB RELAYS

G2R Series

- Conforms to VDE0435 (VDE approval: C250 insulation grade),Ul508, CSA22.2, SEV, SEMKO.
- High-sensitivity (360 mW) and high-capacity(16 A) types available.
- Double-winding latching type available.
- Plug-in with test button and quick-connect terminals available.

G8P Series

- Up to 30 A switching capacity in compact package.
- NEW G8P-1A4P-BG with 2.0 mm contact gap and high dielectric strength of 4,000 VAC.
- Available with quick-connect contact terminals for easy load connecting with either QC or PCB coil terminals.
- UL recognized / CSA certified. VDE approved.
- RoHS Compliant.

G2RL Series

- High-sensitivity (250 mW) and high-capacity (16 A) versions.
- Designed for cooking and HVAC controls: blower motor, damper, active air purification, duct flow boost fans, etc.
- Conforms to VDE (EN61810-1). UL recognized/ CSA certiified.
- Meets EN60335-1 requirements for household products.
- Coil Insulation system: Class F.
- RoHS Compliant.

G5NB Series

- A miniature relay with 1-pole 3A/5A switching capability and10 kV impulse withstand voltage.
- Highly efficient magnetic circuit for high sensitivity (200 mW).
- Small, yet provides 10-kV impulse withstand voltage (between coil and contacts).
- Standard model conforms to UL/CSA/VDE standards.
- Satisfies EN61010 reinforced insulation requirements.

G5LE Series

- Cubic, single-pole 10A power relay.
- Ideal for a wide variety of applications such as home appliances, OA equipments, vending machines, etc.
- Ambient Operating Temperature 85°C.
- UL class-B coil insulation for standard model.
- UL, CSA, EN standards approved and conforms to Electrical Appliance and Material Safety Law (300 V max.).

G6RN Series

- Miniature power relay for switching 8A.
- Low-profile height of 15 mm (approx. 60% the height of the Omron G2R model).
- Capable of switching with 8A at 250VAC despite its small size.
- High sensitivity with 220mW power consumption.
- Standard model conforms to VDE standards.

POWER PCB RELAYS

G4A Series

- Miniature single-pole relay with 80A surge current and 20A switching current.
- Capable of switching motor load of 80A surge current and 20A switching / cut-off current.
- Miniature, relay with high switching power and long endurance.
- Creepage distance conforms to UL and CSA standards.
- Highly noise-resistive insulation materials employed.
- Standard model available with flux protection construction.

G5LA Series

- A cubic, single-pole 10A power relay.
- Economical cube relay with universal terminal footprint.
- Conforms to VDE0435, CQC.
- UL recognized / CSA certified.
- High switching power : 10A @ 250VAC.
- Coil power consumption : 360mW.
- UL class F coil insulation type also available.
- RoHS Compliant.

G5RL Series

- Low-profile relay with various models.
- Low profile : 15.7 mm in height.
- Cree page distance 8 mm between coil and contacts.
- 10kV impulse withstand voltage.
- High-Inrush model available (Inrush peak currents up to 100A).
- Low noise model available (Approx.10 to 20 dB less sound pressure).

SIGNAL RELAYS

G6A Series

- Resistant to electromagnetic interference, enables high-density mounting.
- Impulse withstand voltage of 1,500V meets FCC requirements.
- Gold-clad twin-contacts provide short contact bounce in addition to its high contact reliability.
- A variety of products that cover a wide range of use.

G5V-1 Series

- Ultra-miniature, highly sensitive SPDT relay for signal circuits.
- Ultra-miniature at 12.5×7.5×10 mm (L×W×H).
- Wide switching power of 1mA to 1A.
- High sensitivity : 150 mW nominal coil power consumption.
- Conforms to FCC part 68 requirements for coil to contacts. (1,500V, 10×160?s).

G5V-2 Series

- General-purpose, low-cost, two-pole relays for signal circuits.
- Wide switching power of 10A to 2A.
- Fully-sealed type relays standardized with bifurcated crossbar contacts.
- High dielectric strength at 1,000V AC between coil and contacts, and 750 VAC between contacts of the same polarity.
- UL and CSA standard approved.