



Electronic Components



SIMPLY SOLUTIONS





Electronic Components

Relay Modules:

We manufacture CE & RoHS approved Interface modules. Our range consists of standard 1,2,4,8 & 16 channel relay modules, CNC module, Digital output module, Accessory module & Passive module. It includes DC as well as AC coil relay cards available with options like fuse and indicators. Interface Module range also includes the SSR modules and economy modules. Relay module with ultra slim relay have been introduced to compact the size of module. Passive module range consists of modules with FRC connectors, D-Sub connectors, Rack & Panel connectors and RJ45 connectors. We also provide customised solutions of controller boards and system cables to meet special requirements.

Relay & Base:

We have wide range of relays that includes PCB power relays, General purpose relays, Signal relays, Automotive relays & Solid state relays. We have emerged as one of the largest stockiest for relays in India for OMRON, IDEC, TYCO ELECTRONICS and CRYDOM makes (both single phase SSR & three phase SSR).

Fuse & Fuse Holders:

We have extensive range of fuse and fuse holders which are designed to give the degree of protection as per the demand in today's sophisticated electronic equipment.

Power Supply:

A complete variety of innovative power supplies with high operational reliability is available for various applications. They include open-frame & covered, DIN rail mounting & compact built Power Supplies from the wide range of TRINITY TOUCH, IDEC & OMRON.

IDEC Automation products:

We are the authorised partners for IDEC Products in India which include Relays, Relay Sockets, Timers, Switches, Emergency Stop, Push Buttons, Signalling Tower Lights, Power Supply, HMI, PLC, Smart Relays, Control Station, Sensors, LEDs and many more safety products.



Contents



2-19

Relay Modules.....	2-11
DIN Rail Mounted PCB Support.....	12-13
Cable Assembly & Connectors.....	14-17
Fuse Holders.....	18-19



20-49

Relays.....	20-21
Switches.....	22-43
Timers and Power Supplies.....	44-45
PLC.....	46-47
HMI.....	48-49



50-55

Relays.....	50-53
Switches.....	54-55



56-59

Relays.....	56-57
Product Display.....	58-59

RELAY MODULES

RELAY MODULES



Our Interface Module range consists of standard 1,2,4,8 & 16 channel relay modules, CNC module, Digital output module, Accessory module & Passive module. It includes DC as well as AC coil relay cards available with options like fuse and indicators. Interface Module range also includes the SSR modules and economy modules.

Relay module with ultra slim relay have been introduced to compact the size of module. Passive module range consists of modules with FRC connectors, D-Sub connectors, Rack & Panel connectors & RJ45 connectors.

We also provide customised solutions of controller boards and system cables to meet special requirements.



Relay Modules with Electromechanical Relay

- DIN 35 mounted.
- Pluggable relay module with electro mechanical relays are available with 16,8,4,2,1 channels.
- 1,2 & 4 C/O relays have AC as well as DC input.
- Jumpers are provided to select between positive looping / negative looping.
- Green LED is used to know the input status.
- Fuse & fuse blown indication option is available in contact path.
- Relay coil is protected by free wheeling diode across the relay coil.

Applications

- Industrial Control System.
- All PLC Control System.
- Panel Manufactures.

Interface Modules are CE and RoHS approved



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 type SSR.
- 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.



Accessory Modules

- Utility module is used as a junction box for panel lighting and fan load in control panels.
- It has on board 5A utility socket with switch, which can be used for tapping 230V AC by simply plugging any 5A power plug.
- Power distribution modules are used for distributing power 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 when two SMPS are connected in parallel (Redundancy).

Applications

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



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 in contact 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 CNC inputs) and one 16 channel relay module (for CNC outputs) on single module.

Applications

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

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.

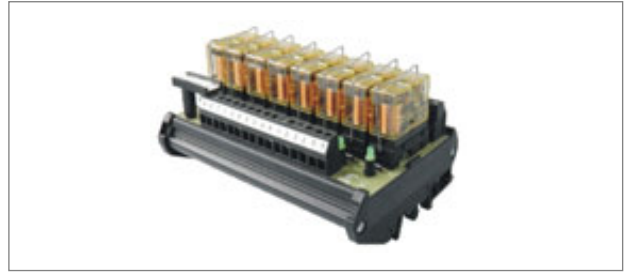
RELAY MODULES

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.

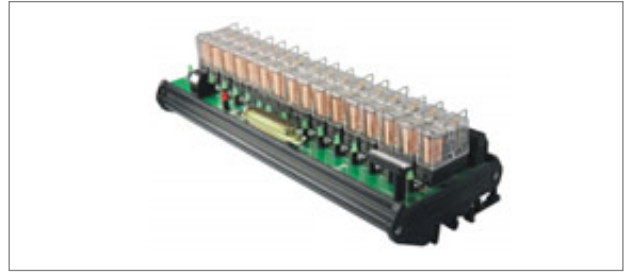
RELAY MODULES

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.



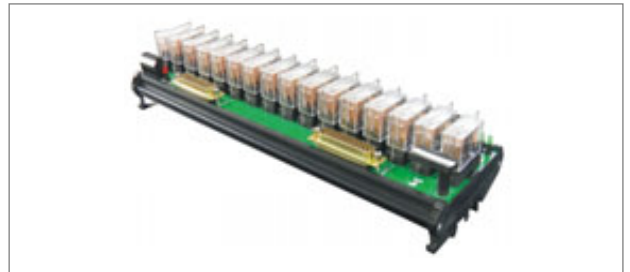
TT-IMRB-16024D2S-DO(D25M)

- 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-fab plug 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 single module.
- 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-fab plug 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 SMPS are 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 supplies of 20A each.
- Increases overall system efficiency.
- Improves system reliability.
- Simple & inexpensive to implement.
- Mounting DIN 35 carrier rail.

CUSTOMISED RELAY MODULES



TT-IMPB-F40

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



TT-IMPB-D25F

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



TT-IMPB-ELCO38 (R)

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



TT-IMPB-RJ45 (H)

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



TT-IMPB-Utility

- Utility module is used as a junction box for panel lighting and fan load in control panels.
- It has on board 5-Amp utility socket with switch, which can be used 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, complete module can be used at single potential.
- Mounting DIN 35 carrier rail.



TT-IMPB-PDM

- Power distribution modules are used for distributing power to multiple 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 for powering multiple field devices by one power supply.
- Mounting DIN 35 carrier rail.

RELAY MODULES

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/negative looping.
- 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)

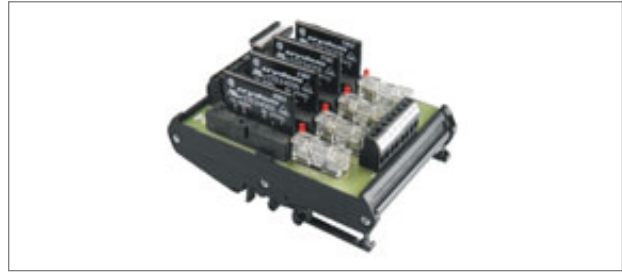
- 8/4 channels SSR relay module with solid state relays.
- Relays directly soldered.
- Input/Output voltage 24V DC & rated load current 3A.
- Green LED for input status & red LED for fuse fail indication.
- Jumpers are provided for selection between positive/negative looping.
- Free wheeling diodes are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

DIN RAIL MOUNTED PCB SUPPORT

DIN RAIL MOUNTED PCB SUPPORT



DIN Rail (EN 60715) Mounted PCB Support

The compact PCB mounting profile provides a multiple possibilities for the construction of electronics circuits. This enables the user to develop individual practical electronic modules. Depending on the required module size and the space available. The profile can be cut to length and combined with side and foot elements to form a module.

Further advantages

- Quick assembly.
- Labeling facilities in the mounting profile.
- Side element using SS-ZB marking material.

The PMP...72 and PMP...108 panel mounting bases have three levels for accommodating the printed circuit boards. This enables a flexible printed circuit board assembly, which is particularly space-saving, even for SMD technology. Two profiles for printed circuit board sizes of 72 mm or 107.5 mm are available for comprehensive electronics circuits and multi-position connection methods. The profiles are available in lengths up to 100 cm for this arrangement.

Further advantages

- Fast installation on conventional  or  DIN rails.
- The modules can be marked with Trinity Touch marking material in the label grooves.
- Side elements with foot elements to form the PCB module to be mounted on all the conventional DIN rail (EN 60715).

Material information concerning the housing

PVC profile inflammability class VO (UL 94) Polyamide PA side elements. Inflammability class VO (UL 94).

To define the profile length and width please observe the order key please indicate the desired length in (cm).

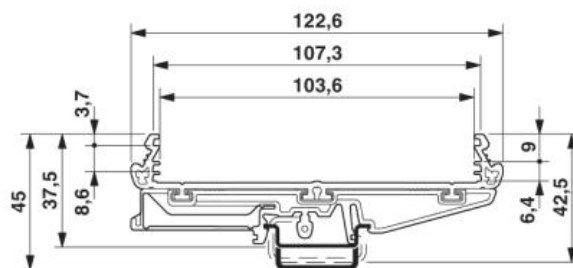
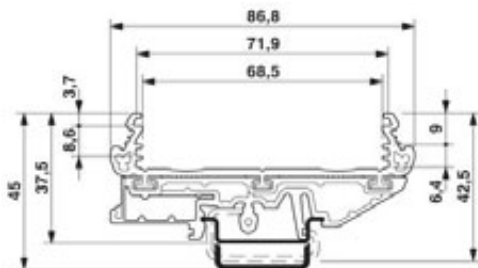
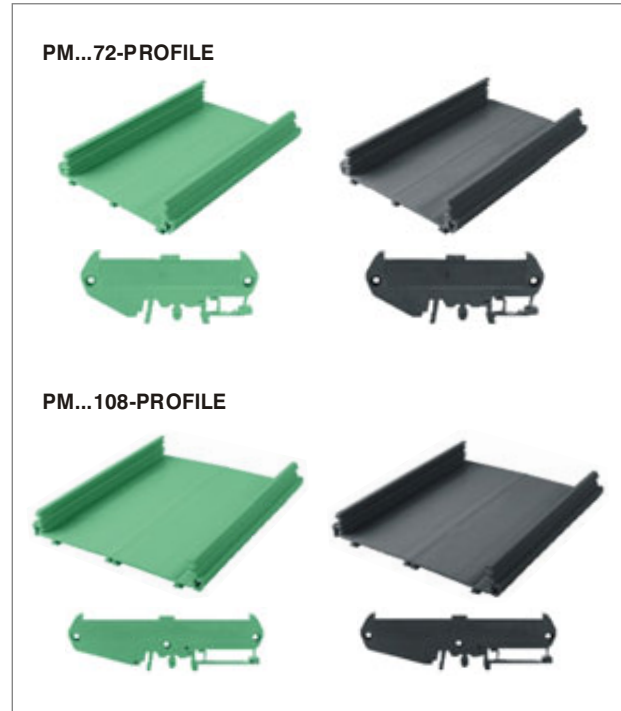
DIN RAIL MOUNTED PCB SUPPORT

Profile housing, in profile width:
72 mm, 108 mm available.

GENERAL DATA	
Housing type	Panel mounting base
Housing material	PVC
Colors	Green, Black
TECHNICAL DATA	
Inflammability class acc. to UL 94	V0
CONFIGURATION OPTIONS	
PMP profile PCB width	108 mm (PMP..108) 72 mm (PMP..72)
Number of positions	Pale green (...GR) Jet black (...BL)

Application:

Relay modules, Switch modules, Fuse modules,
Diode modules, Power supply modules, Over-voltage
protection modules, Pats transmission & receiver modules,
Analogue/ Digital convertor etc...



PM...72-PROFILE

PM...108-PROFILE

DESCRIPTION	Type	Article No.	Pcs. Pkt.	Type	Article No.	Pcs. Pkt.
Drawn section Found length 100cm Cut to length according to customer specifications	TT-PMP-MC72-GR	01 17 00890	1	TT-PMP-MC108-GR	01 17 00894	1
	TT-PMP-MC72-BL	01 17 00899	1	TT-PMP-MC108-BL	01 17 00903	1
Side element with foot , 5mm wide, right hand side, for mounting on  or 	TT-PMP-RSC72WF-GR	01 17 00891	10	TT-PMP-RSC108WF-GR	01 17 00895	10
	TT-PMP-RSC72WF-BL	01 17 00900	10	TT-PMP-RSC108WF-BL	01 17 00904	10
Side element with foot , 5 mm wide, left hand side for mounting on  or 	TT-PMP-LSC72WF-GR	01 17 00892	10	TT-PMP-LSC108WF-GR	01 17 00896	10
	TT-PMP-LSC72WF-BL	01 17 00901	10	TT-PMP-LSC108WF-BL	01 17 00905	10
Side element , 5 mm wide	TT-PMP-SC72-GR	01 17 00916		TT-PMP-SC108-GR	01 17 00897	
	TT-PMP-SC72-BL	01 17 00917		TT-PMP-SC108-BL	01 17 00906	
Foot element , for mounting on  or  , under the PMP..72 or PMP..108 profile housing	TT-PMP-FC72-GR	01 17 00893	10	TT-PMP-FC108-GR	01 17 00898	10
	TT-PMP-FC72-BL	01 17 00902	10	TT-PMP-FC108-BL	01 17 00907	10
Markers, unprinted, 5-section, for snapping into devices and components with special marker groove, labeling with M PEN or CMS system, lettering field size: 20x8 mm, white for SAB boxes.	TT-PMP-ACC-MARKER	01 17 00908	1			

CABLE ASSEMBLY & CONNECTORS

CABLE ASSEMBLY WITH FRC, D-SUB AND EDAC CONNECTOR



Ready to use system cables assembled with different types of connectors (FRC, D-SUB etc) are commonly known as Cable Assembly. They are used to ensure a reliable connection between the automation equipments & the modules. These cables are connected into 1:1 Connection. The cables are pre assembled round cables which are available in all customized length. These cables can withstand operational ambient temperature of -20°C to 50°C. The standard available cable brands are LAPP, HELUKABEL or any equivalent imported brand.

We also offer separate connectors including Rack & Panel, D-Sub Connectors, Flat Ribbon Connectors (FRC) and RJ 45 Connectors both solder dip type and bucket type. Plastic and Metal Covers / Hoods for D-Sub Connectors are also available in our product line. The quality of this product is refined to international industry standard.



Round shielded / Non shielded cable assemblies with flat ribbon connectors (FRC).

Properties

- Cable conductor cross-section- AWG 26/0.14 mm².
- Max. permissible current capacity per path-1A.
- Operating voltage-50V AC/ 60V DC.

Non Shielded cable assembled with FRC connectors at both ends.

- Available in - 10, 14, 16, 20, 26, 34, 40, 50.

Non Shielded cable assembled with FRC connector at one end and other end open fitted with ferrules / lugs.

- Available in - 10, 14, 16, 20, 26, 34, 40, 50.

Non Shielded cable assembled with 50 pin FRC connector at one end and 40 pin FCN female connector at other end.

Shielded cable assembled with FRC connectors at both end.

- Available in - 10, 14, 16, 20, 26, 34, 40, 50.

Customized cables assembled with different-different connectors are also available on request.

Any customised lengths are available as per requirements.

CABLE ASSEMBLY WITH FRC, D-SUB AND EDAC CONNECTOR



Round shielded / Non shielded cable assemblies with D-Sub connectors

Properties

- Cable conductor cross-section- AWG 26/0.14 mm² / AWG 24/0.25 mm².
- Max. permissible current capacity per path-2A.
- Operating voltage-125V AC / V DC.
- Shield-Tinned Copper Braided Shield.

Round shielded / Non shielded cable with D-SUB male connectors at both ends.

- Available in - 9, 15, 25, 37, 50.

Round shielded / Non shielded cable with D-SUB female connector at both ends.

- Available in - 9, 15, 25, 37, 50.

Round shielded / Non shielded cable with D-SUB male connector at one end & D-SUB female connector at other end.

- Available in - 9, 15, 25, 37, 50.

Round shielded / Non shielded cable with D-SUB male connector at one end & other end open fitted with ferrules / lugs.

- Available in - 9, 15, 25, 37, 50.

Round shielded / Non shielded cable with D-SUB female connector at one end & other end open fitted with ferrules / lugs.

- Available in - 9, 15, 25, 37, 50.



Round shielded cable assemblies with ELCO / EDAC connectors.

Properties

- Crimp pins used are gold plated type.
- Cable conductor cross-section- AWG 22/0.5 mm².
- Max. permissible current capacity per path-1.5A.
- Operating voltage- 25V AC / 60V DC.
- Shield-Tinned Copper Braided Shield.

Round shielded cable with ELCO / EDAC connectors at both ends.

- Available in - 20, 38, 56.

Round shielded cable with ELCO / EDAC connector at one end & other end open fitted with ferrules / lugs.

- Available in - 20, 38, 56.

Any customised lengths are available as per requirements.

Vastly used in oil & gas industries where high class precision is required.

Customised cables assembled with combination of different ELCO / EDAC connectors are also available on request.

CABLE ASSEMBLY & CONNECTORS

CABLE ASSEMBLY WITH FRC, D-SUB AND EDAC CONNECTOR



Round shielded cable assemblies with D-Sub 25 pin male connectors at both ends



Round shielded cable assemblies with D-Sub 37 pin male connectors at both ends



Round shielded cable assemblies with D-Sub 25 pin female connectors at both ends



Round shielded cable assemblies with D-Sub 15 pin male at one end and female at other end



Round shielded cable assemblies with 50 pin FRC connector at one end and other end open fitted with ferrule



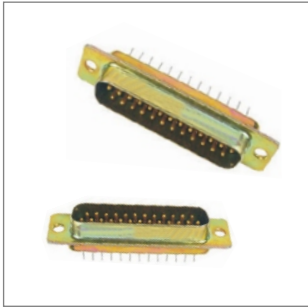
Round shielded cable assemblies with 34 pin FRC connectors at both ends

CONNECTORS

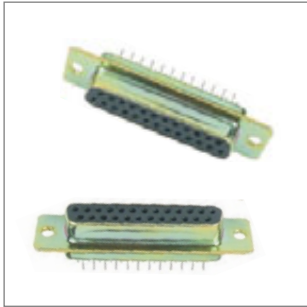
D-Sub Connector

The D-Sub miniature or D-Sub is a common type of electrical connector. They are named for their characteristic D-shaped metal shield. D-Sub connectors are designed to ensure the connection function in all applications where weight and dimension are very important. They are especially used as input/output connectors in interface functions.

Solder Type - Male



Solder Type - Female



Bucket Type - Male



Bucket Type - Female



Plastic Hood

- A Miniature Relay with 1-pole 3A/5A switching capability and 10kV 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.



FRC Connector

Flat ribbon cable connectors are commonly called wire to board connector and wire to wire connectors. They are mainly of two types i.e. PCB solder type and wire crimp type

Box Header 2.54 mm



IDC Socket 2.54 mm



FUSE HOLDERS

PCB FUSE HOLDERS



We have extensive range of PCB type fuse holders which are designed to give the degree of protection as per the demand in today's sophisticated electronic equipment.

There's a choice of styles for horizontal fuse holders and vertical fuse holders. The fuse holders are available for 5x20 mm fuse size with styles including bayonet cap and screwdriver release. Transparent fuse covers for horizontal fuse holders are also available for protection purpose.



FX 320

- PCB mount
- Protection category PC 1
- Fuse size 5X20 mm
- PC spills
- 6.3A, 250V



FX 456 & FX 457

- 2 pin PCB horizontal & vertical mount
- Protection category PC 2
- Fuse size 5X20 mm
- Bayonet cap/Screwdriver
- 10A, 250V

PCB FUSE HOLDERS



FH 4

- 4 pin PCB vertical mount
- Protection category PC 2
- Fuse size 5x20 mm
- Bayonet cap/Screwdriver
- PC Spills
- 10A, 250 V



12760

- Insulation cover
- Provide Insulation from live parts on fuse holder
- Clear & transparent
- Polycarbonate

SPECIFICATIONS	FX 320	FX 456 & FX 457	FH 4	12760
Fuse size	5x20 mm	5x20 mm	5x20 mm	For use with FX 320
Fuse carrier		Bayonet cap / Screwdriver	Bayonet cap / Screwdriver	Max. working voltage : 250V AC
Terminations	PC spills	PC spills	PC spills	Flash tested to : 2kV AC
Max. rating	6.3A, 250V	10A, 250V	10A, 250V	
Max. power dissipation		2.5W (@23°C)	2.5W (@23°C)	
Insulation resistance	>10 ⁵ MΩ @ 500V DC	>10 ² MΩ @ 500V DC	>10 MΩ @ 500V DC	
A.C. Breakdown	7kV @ 50Hz (clip to clip)	4kV @ 50Hz	>2kV	
Contact resistance	<10mΩ	<10mΩ	<10mΩ	
Operating temperature (ambient air temp. +fuse temp. rise)	-20°C to +85°C	-20°C to +85°C	-20°C to +85°C	
Body	Glass filled nylon UL 94 V-0 rated	Polyester UL 94V-0 rated	Glass filled nylon UL 94 V-0 rated	
Cap		Nylon UL 94V-0 rated	Nylon UL 94V-0 rated	
Contacts	Phosphor bronze, Tin plated	Brass, Silver plated	Tin plated, Copper alloy	
Approval	RoHS compliant	RoHS compliant	RoHS compliant	

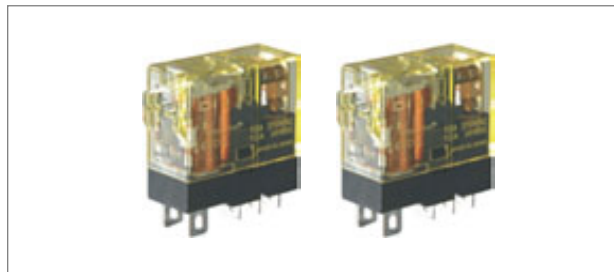
RELAYS

RELAYS & SOCKETS FOR CONTROL PANEL



Designed with attention to every detail, IDEC relays are manufactured to ensure 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 equally well 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.



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.



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 indicator light.



RY/RM Series

- High density, 4PDT in a package less than .840" wide 4PDT and 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.



RH Series

- Compact midjet size saves space SPDT, DPDT, 3PDT, or 4PDT 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.



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.

SWITCHES

SWITCHES FOR CONTROL PANEL



From miniature pilot lights and industrial switches that mount into 8mm panel cutout through full size industrial switches that mount into 30mm cutouts, we have an industrial switch or indicator for almost any application. Terminations include solder/quick connect terminals, screw terminals, or PC board pins for direct board mounting.

Miniature models use snap action gold plated contacts for superior low level switching, where as larger models use slow-make, double break contacts for switching heavier loads, up to 10A. Many models offer the flexibility of modular construction, which allows you to change contacts, lamp voltages or button colors easily.



A Series Ø8, Ø10, Ø12, Ø16 mm

- Light-touch operator with short body.
- Variety of operator types and colours.
- Bright and clear illumination face with LED lamps.
- Available in enclosed (IP40) and oil tight (IP65) types.
- SPDT or DPDT gold-clad silver contacts.
- Flush mounting available.



AP Series Ø8, Ø10, Ø12, Ø16 mm

- Space saving miniature style.
- Built-in protection diode and resistor.
- Dome or flat lenses.
- Six illumination colours : Red, Blue, Green, Amber, Yellow, White.
- Solder terminals, Built-in current limiting resistor.
- Three power voltages : 6, 12, 24V DC.
- IP65 rated (AP8 series : IP40).



L6 Series Ø16 mm

- Light duty control units with locking lever and removable contacts.
- Bright LED illumination.
- Gold-clad cross bar contacts and silver contacts.
- UL recognized, CSA certified (except buzzers).
- EN compliant (except buzzers), RoHS compliant.
- IP65 protection.

SWITCHES FOR CONTROL PANEL



LB Series Ø16 mm

- Sleek flush mount design.
- Standard bezel with 16mm hole size also available.
- Flush Mount: Just 34.9mm depth behind the panel.
- Standard Mount: 27.9mm depth behind the panel.
- 5A contact ratings.
- IP65 degree of protection.
- Special wave keys available.



TW Series Ø22 mm

- Highly reliable contacts, long life design.
- Snap-on mount contact block and transformers.
- High contact rating with 10A continuous current.
- IP65 protection.
- UL and CSA approved.
- EN compliant.



YW SERIES Ø22mm

- Tamper proof construction.
- Cost effective, high performance.
- Finger-safe screw terminal.
- Locking lever removable contact blocks.
- Non-glare matted surfaces on the button, lens and bezel reduce reflection of ambient light.
- UL, c-UL approved, EN compliant.



LW Flush Silhouette Ø22 mm

- Ø25.3mm round panel cut-out, 24.5mm square panel cut-out.
- Plastic or metal bezels.
- Separate type control units with a locking lever enable easy installation even when mounted collectively.
- IP65 protection.
- UL and CSA approved.
- EN compliant.



HW Series Ø22 mm

- Locking lever removable contact blocks.
- Finger-safe IP20 contacts as standard, other terminal styles available.
- All E-stops meet EN418 and are compliant with SEMI S2 standards.
- Worldwide approvals.
- Choice of black plastic or metallic front bezels.
- Slow make double break self cleaning contacts.



N Series Ø30 mm

- Heavy duty control units with high reliability.
- Variety of models with up to maximum 10A contact rating.
- Durable nylon 66 housing with silver contacts.
- LED or incandescent illumination.
- IP65 protection.
- UL and CSA approved.
- EN compliant.

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm



YW Series Control Units

Space-saving, 10-mm-thick contact blocks. Removable operator.

- Compact and light-weight.
- IP20 finger-safe screw terminals (IEC 60529).
- Separate contact block makes installation and removal easy.
- Pilot lights feature a large lens for a wide viewing angle.
- Matted surfaces on the buttons, lenses, and bezels reduce reflection of ambient light.
- UL, c-UL listed, EN compliant, and CCC approved.



- UL508, CSA C22.2 No. 14, EN 60947-1, EN 60947-5-1, EN 60947-5-5, GB 14048.5



Specifications

Operating Conditions	Operating temperature: -20 to +55°C (no freezing) Operating humidity: 45 to 85% RH (no condensation) Storage temperature: -45 to +80°C Storage humidity: 95% RH maximum
Degree of Protection	From panel front: IP65 (IEC 60529) Terminal: IP20 (IEC 60529)
Insulation Resistance	100 MΩ
Dielectric Strength	Contact block: 2,500V, 1 minute Pilot light: 2,000V, 1 minute
Vibration Resistance	<Emergency stop switch> Operating extremes / Damage limits: 10 to 500 Hz, amplitude 0.35 mm, acceleration 50 m/s ² (5G) <Pushbutton, pilot light, illuminated pushbutton, selector switch, and key selector switch> Operating extremes: 5 to 55 Hz, amplitude 0.5 mm Damage limits: 30 Hz, amplitude 1.5 mm
Shock Resistance	<Emergency stop switch> Operating extremes: 150 m/s ² (10G) Damage limits: 1,000 m/s ² (100G) <Pushbutton, pilot light, illuminated pushbutton, selector switch, and key selector switch> Operating extremes: 100 m/s ² (10G) Damage limits: 1,000 m/s ² (100G)
Mechanical Life (minimum operations)	<Emergency stop switch> 250,000 (single contact block) <Pushbutton and illuminated pushbutton> Momentary: 5,000,000 (single contact block) 1,000,000 (double contact block) Maintained: 250,000 (single contact block) 100,000 (double contact block) <Selector switch and key selector switch> 250,000 (single contact block) 100,000 (double contact block)
Electrical Life (minimum operations)	<Emergency stop switch> 100,000 (single contact block) <Pushbutton, selector switch, and key selector switch> 100,000 (single contact block) 50,000 (double contact block)

Contact Ratings (Contact Block)

Rated Insulation Voltage		600V			
Rated Thermal Current		10A			
Operating Voltage		24V	120V	240V	380V
AC 50/60 Hz	Resistive Load (AC-12)	10A	10A	6A	2A
	Inductive Load (AC-15)	10A	6A	3A	1.9A
DC	Resistive Load (DC-12)	8A	2.2A	1.1A	—
	Inductive Load (DC-13)	4A	1.1A	0.55A	—

Incandescent Lamp Ratings

Part No.	Rated Voltage	Rating
LS-T6	6V AC/DC	6.3V 1W
LS-T8	12V AC/DC	18V 1W
LS-T3	24V AC/DC	30V 1W

YW SERIES CONTROL UNITS Ø22 mm

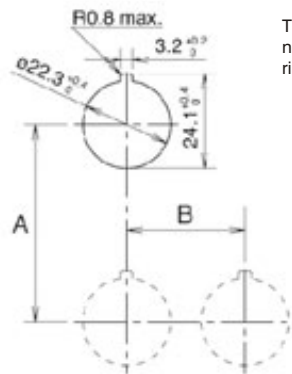
LED Lamp Ratings

Part No.	Rated Voltage	Rated Current	Color Code
LSED-6②	6V AC/DC	10 mA (A, R, Y) 7 mA (G, PW, S)	A (amber) G (green) PW (pure white) R (red) S (blue) Y (yellow)
LSED-1②	12V AC/DC	14 mA (A, R, Y) 13 mA (G, PW, S)	
LSED-2②	24V AC/DC	14 mA (A, R, Y) 13 mA (G, PW, S)	
LSED-H②	110/120V AC/DC	5 mA	
LSED-M3②	230/240V AC/DC	3 mA	

Note: Specify a color code in place of ② in the Part No.
Yellow LED lamps are used for white illumination of pilot lights and illuminated Pushbuttons.

Unibody Pilot Light Ratings

Rated Voltage	Illumination Color	Rated Current
6V AC/DC	A, R, W, Y	16 mA
	G, PW, S	13 mA
12V AC/DC	A, G, PW, R, S, W, Y	20 mA
24V AC/DC		
100/110V AC		
230/240V AC		



The 3.2-mm-wide key recess is necessary when the anti rotation ring is used.

Mounting Hole Layout

Unit	A (mm)	B (mm)
Emergency stop switch	50 min.	50 min.
Pushbutton, Selector switch, Key selector switch	50 min.	30 min.
Mushroom pushbutton	50 min.	40 min.
Pilot light (with removable contact block)	30 min.*	30 min.
Pilot light (unibody)	50 min.	30 min.

* Keep a minimum spacing of 50 mm when using a lamp of over 1W.

Emergency Stop Switches

Style	Operation	Contact	Part No.	Button Color Code
 Mushroom ø40mm 	Pushlock Pull/Turn Reset	1NC	YW1B-V4E01R	Red Only
		2NC	YW1B-V4E02R	
		3NC	YW1B-V4E03R	
		1NO-1NC	YW1B-V4E11R	
		1NO-2NC	YW1B-V4E12R	
		2NO-1NC	YW1B-V4E21R	

• When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

Illuminated Emergency Stop Switches

Style	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	Lens Color Code
Mushroom ø40mm  	Without Lamp	Pushlock Pull/Turn Reset	1NC	YW1L-V4E01Q0R	0: without lamp 250V AC/DC max.	Red Only
			2NC	YW1L-V4E02Q0R		
			1NO-1NC	YW1L-V4E11Q0R		
	LED		1NC	YW1L-V4E01Q③R	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	
			2NC	YW1L-V4E02Q③R		
			1NO-1NC	YW1L-V4E11Q③R		
	Incandescent		1NC	YW1L-V4E01Q③R	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	
			2NC	YW1L-V4E02Q③R		
			1NO-1NC	YW1L-V4E11Q③R		

• Specify an operating voltage code in place of ③ in the Part No.
• When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Pushbuttons with Plastic Bezel

Shape	Operation	Contact	Part No.	① Button Color Code
Flush  	Momentary	1NO	YW1B-M1E10①	B: black G: green R: red S: blue W: white Y: yellow
		1NC	YW1B-M1E01①	
		2NO	YW1B-M1E20①	
		2NC	YW1B-M1E02①	
		1NO-1NC	YW1B-M1E11①	
		3NO	YW1B-M1E30①	
		3NC	YW1B-M1E03①	
		2NO-1NC	YW1B-M1E21①	
	Maintained	1NO-2NC	YW1B-M1E12①	
		1NO	YW1B-A1E10①	
1NC		YW1B-A1E01①		
2NO		YW1B-A1E20①		
2NC		YW1B-A1E02①		
Extended  	Momentary	1NO	YW1B-M2E10①	B: black G: green R: red S: blue W: white Y: yellow
		1NC	YW1B-M2E01①	
		2NO	YW1B-M2E20①	
		2NC	YW1B-M2E02①	
		1NO-1NC	YW1B-M2E11①	
	Maintained	1NO	YW1B-A2E10①	
		1NC	YW1B-A2E01①	
		2NO	YW1B-A2E20①	
		2NC	YW1B-A2E02①	
		1NO-1NC	YW1B-A2E11①	
Mushroom ø40mm  	Momentary	1NO	YW1B-M4E10①	B: black G: green R: red S: blue W: white Y: yellow
		1NC	YW1B-M4E01①	
		2NO	YW1B-M4E20①	
		2NC	YW1B-M4E02①	
		1NO-1NC	YW1B-M4E11①	
	Maintained	1NO	YW1B-A4E10①	
		1NC	YW1B-A4E01①	
		2NO	YW1B-A4E20①	
		2NC	YW1B-A4E02①	
		1NO-1NC	YW1B-A4E11①	

Note: Specify a button color code in place of ① in the Part No.

YW SERIES CONTROL UNITS Ø22 mm

Pushbuttons with Metal Bezel

Shape	Operation	Contact	Part No.	① Button Color Code
Flush  	Momentary	1NO	YW4B-M1E10①	B: black G: green R: red S: blue W: white Y: yellow
		1NC	YW4B-M1E01①	
		2NO	YW4B-M1E20①	
		2NC	YW4B-M1E02①	
		1NO-1NC	YW4B-M1E11①	
		3NO	YW4B-M1E30①	
		3NC	YW4B-M1E03①	
		2NO-1NC	YW4B-M1E21①	
		1NO-2NC	YW4B-M1E12①	
	Maintained	1NO	YW4B-A1E10①	
		1NC	YW4B-A1E01①	
		2NO	YW4B-A1E20①	
		2NC	YW4B-A1E02①	
		1NO-1NC	YW4B-A1E11①	
Extended  	Momentary	1NO	YW4B-M2E10①	B: black G: green R: red S: blue W: white Y: yellow
		1NC	YW4B-M2E01①	
		2NO	YW4B-M2E20①	
		2NC	YW4B-M2E02①	
		1NO-1NC	YW4B-M2E11①	
	Maintained	1NO	YW4B-A2E10①	
		1NC	YW4B-A2E01①	
		2NO	YW4B-A2E20①	
		2NC	YW4B-A2E02①	
		1NO-1NC	YW4B-A2E11①	
Mushroom ø40mm  	Momentary	1NO	YW4B-M4E10①	B: black G: green R: red S: blue W: white Y: yellow
		1NC	YW4B-M4E01①	
		2NO	YW4B-M4E20①	
		2NC	YW4B-M4E02①	
		1NO-1NC	YW4B-M4E11①	
	Maintained	1NO	YW4B-A4E10①	
		1NC	YW4B-A4E01①	
		2NO	YW4B-A4E20①	
		2NC	YW4B-A4E02①	
		1NO-1NC	YW4B-A4E11①	

Note: Specify a button color code in place of ① in the Part No.

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Pilot Lights (Unibody)

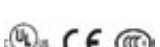
Shape	Lamp	Operating Voltage	Part No.	② Lens Color Code
Flush Full Voltage  	LED	6V AC/DC	YW1P-1UQ2②	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow
		12V AC/DC	YW1P-1UQ3②	
		24V AC/DC	YW1P-1UQ4②	
		100/110V AC	YW1P-1UQH②	
		230/240V AC	YW1P-1UQM3②	
Flush Marking Full Voltage  	LED	6V AC/DC	YW1P-1BUQ2②	
		12V AC/DC	YW1P-1BUQ3②	
		24V AC/DC	YW1P-1BUQ4②	
		100/110V AC	YW1P-1BUQH②	
		230/240V AC	YW1P-1BUQM3②	
Extended Full Voltage  	LED	6V AC/DC	YW1P-2TUQ2②	
		12V AC/DC	YW1P-2TUQ3②	
		24V AC/DC	YW1P-2TUQ4②	
		100/110V AC	YW1P-2TUQH②	
		230/240V AC	YW1P-2TUQM3②	
Dome Full Voltage  	LED	6V AC/DC	YW1P-2UQ2②	
		12V AC/DC	YW1P-2UQ3②	
		24V AC/DC	YW1P-2UQ4②	
		100/110V AC	YW1P-2UQH②	
		230/240V AC	YW1P-2UQM3②	

Pilot Lights (with Removable Contact Block)

Shape	Lamp	Operating Voltage	Part No.	② Lens Color Code
Flush Full Voltage  	Without Lamp	250V AC/DC max.	YW1P-1EQ0②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow)
	LED	6V AC/DC	YW1P-1EQ2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6②③
		12V AC/DC	YW1P-1EQ3②	
		24V AC/DC	YW1P-1EQ4②	
		110/120V AC/DC	YW1P-1EQH②	
		230/240V AC/DC	YW1P-1EQM3②	
	Incandescent	6V AC/DC	YW1P-1EQ5②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T③
		12V AC/DC	YW1P-1EQ6②	
		24V AC/DC	YW1P-1EQ7②	
Flush Transformer  	LED	100/110V AC	YW1P-1EH2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6②③
		200/220V AC	YW1P-1EM2②	
		115/120V AC	YW1P-1EH22②	
		230/240V AC	YW1P-1EM42②	
	Incandescent	100/110V AC	YW1P-1EH5②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T6
		200/220V AC	YW1P-1EM5②	
		115/120V AC	YW1P-1EH25②	
		230/240V AC	YW1P-1EM45②	



YW SERIES CONTROL UNITS Ø22 mm

Shape	Lamp	Operating Voltage	Part No.	② Lens Color Code
Flush Marking Full Voltage  	Without Lamp	250V AC/DC max.	YW1P-1BEQ0②	A (amber), G (green), R (red), S (blue), W (white), Y (yellow)
	LED	6V AC/DC	YW1P-1BEQ2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-③②
		12V AC/DC	YW1P-1BEQ3②	
		24V AC/DC	YW1P-1BEQ4②	
		110/120V AC/DC	YW1P-1BEQH②	
		230/240V AC/DC	YW1P-1BEQM3②	
	Incandescent	6V AC/DC	YW1P-1BEQ5②	A (amber), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T③
		12V AC/DC	YW1P-1BEQ6②	
		24V AC/DC	YW1P-1BEQ7②	
Flush Marking Transformer  	LED	100/110V AC	YW1P-1BEH2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6②
		200/220V AC	YW1P-1BEM2②	
		115/120V AC	YW1P-1BEH22②	
		230/240V AC	YW1P-1BEM42②	
	Incandescent	100/110V AC	YW1P-1BEH5②	A (amber), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T6
		200/220V AC	YW1P-1BEM5②	
		115/120V AC	YW1P-1BEH25②	
		230/240V AC	YW1P-1BEM45②	
Extended Full Voltage  	Without Lamp	250V AC/DC max.	YW1P-2TEQ0②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow)
	LED	6V AC/DC	YW1P-2TEQ2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-③②
		12V AC/DC	YW1P-2TEQ3②	
		24V AC/DC	YW1P-2TEQ4②	
		110/120V AC/DC	YW1P-2TEQH②	
		230/240V AC/DC	YW1P-2TEQM3②	
	Incandescent	6V AC/DC	YW1P-2TEQ5②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T③
		12V AC/DC	YW1P-2TEQ6②	
		24V AC/DC	YW1P-2TEQ7②	
Extended Transformer  	LED	100/110V AC	YW1P-2TEH2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6②
		200/220V AC	YW1P-2TEM2②	
		115/120V AC	YW1P-2TEH22②	
		230/240V AC	YW1P-2TEM42②	
	Incandescent	100/110V AC	YW1P-2TEH5②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T6
		200/220V AC	YW1P-2TEM5②	
		115/120V AC	YW1P-2TEH25②	
		230/240V AC	YW1P-2TEM45②	
Dome Full Voltage  	Without Lamp	250V AC/DC max.	YW1P-2EQ0②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow)
	LED	6V AC/DC	YW1P-2EQ2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-③②
		12V AC/DC	YW1P-2EQ3②	
		24V AC/DC	YW1P-2EQ4②	
		110/120V AC/DC	YW1P-2EQH②	
		230/240V AC/DC	YW1P-2EQM3②	
	Incandescent	6V AC/DC	YW1P-2EQ5②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T③
		12V AC/DC	YW1P-2EQ6②	
		24V AC/DC	YW1P-2EQ7②	

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Shape	Lamp	Operating Voltage	Part No.	② Lens Color Code
Dome Transformer  	LED	100/110V AC	YW1P-2EH2②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6②
		200/220V AC	YW1P-2EM2②	
		115/120V AC	YW1P-2EH22②	
		230/240V AC	YW1P-2EM42②	
	Incandescent	100/110V AC	YW1P-2EH5②	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T6
		200/220V AC	YW1P-2EM5②	
		115/120V AC	YW1P-2EH25②	
		230/240V AC	YW1P-2EM45②	

Note: Specify a lens color code in place of ② in the Part No.
Clear lenses are used for PW (pure white) illumination of pilot lights.

Illuminated Pushbuttons with Plastic Bezel

Shape	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	② Lens Color Code
Extended  	Without Lamp	Momentary	1NO	YW1L-M2E10Q0②	0: without lamp 250V AC/DC max.	A: amber G: green R: red S: blue W: white Y: yellow
			1NC	YW1L-M2E01Q0②		
			2NO	YW1L-M2E20Q0②		
			2NC	YW1L-M2E02Q0②		
			1NO-1NC	YW1L-M2E11Q0②		
		Maintained	1NO	YW1L-A2E10Q0②		
			1NC	YW1L-A2E01Q0②		
			2NO	YW1L-A2E20Q0②		
			2NC	YW1L-A2E02Q0②		
			1NO-1NC	YW1L-A2E11Q0②		
	LED	Momentary	1NO	YW1L-M2E10Q③②	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow Built-in LED lamp: LSED-③②
			1NC	YW1L-M2E01Q③②		
			2NO	YW1L-M2E20Q③②		
			2NC	YW1L-M2E02Q③②		
			1NO-1NC	YW1L-M2E11Q③②		
		Maintained	1NO	YW1L-A2E10Q③②		
			1NC	YW1L-A2E01Q③②		
			2NO	YW1L-A2E20Q③②		
			2NC	YW1L-A2E02Q③②		
			1NO-1NC	YW1L-A2E11Q③②		
	Incandescent	Momentary	1NO	YW1L-M2E10Q③②	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	A: amber G: green R: red S: blue W: white Y: yellow Built-in incandescent lamp: LS-T③
			1NC	YW1L-M2E01Q③②		
			2NO	YW1L-M2E20Q③②		
			2NC	YW1L-M2E02Q③②		
			1NO-1NC	YW1L-M2E11Q③②		
		Maintained	1NO	YW1L-A2E10Q③②		
			1NC	YW1L-A2E01Q③②		
			2NO	YW1L-A2E20Q③②		
			2NC	YW1L-A2E02Q③②		
			1NO-1NC	YW1L-A2E11Q③②		

YW SERIES CONTROL UNITS Ø22 mm

Shape	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	② Lens Color Code
Extended with Full Shroud  	Without Lamp	Momentary	1NO	YW1L-MF2E10Q0 ②	0: without lamp 250V AC/DC max.	A: amber G: green R: red S: blue W: white Y: yellow
			1NC	YW1L-MF2E01Q0 ②		
			2NO	YW1L-MF2E20Q0 ②		
			2NC	YW1L-MF2E02Q0 ②		
			1NO-1NC	YW1L-MF2E11Q0 ②		
		Maintained	1NO	YW1L-AF2E10Q0 ②		
			1NC	YW1L-AF2E01Q0 ②		
			2NO	YW1L-AF2E20Q0 ②		
			2NC	YW1L-AF2E02Q0 ②		
			1NO-1NC	YW1L-AF2E11Q0 ②		
	LED	Momentary	1NO	YW1L-MF2E10Q ③ ②	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow Built-in LED lamp: LSED-③ ②
			1NC	YW1L-MF2E01Q ③ ②		
			2NO	YW1L-MF2E20Q ③ ②		
			2NC	YW1L-MF2E02Q ③ ②		
			1NO-1NC	YW1L-MF2E11Q ③ ②		
		Maintained	1NO	YW1L-AF2E10Q ③ ②		
			1NC	YW1L-AF2E01Q ③ ②		
			2NO	YW1L-AF2E20Q ③ ②		
			2NC	YW1L-AF2E02Q ③ ②		
			1NO-1NC	YW1L-AF2E11Q ③ ②		
	Incandescent	Momentary	1NO	YW1L-MF2E10Q ③ ②	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	A: amber G: green R: red S: blue W: white Y: yellow Built-in incandescent lamp: LS-T ③
			1NC	YW1L-MF2E01Q ③ ②		
			2NO	YW1L-MF2E20Q ③ ②		
			2NC	YW1L-MF2E02Q ③ ②		
			1NO-1NC	YW1L-MF2E11Q ③ ②		
		Maintained	1NO	YW1L-AF2E10Q ③ ②		
			1NC	YW1L-AF2E01Q ③ ②		
			2NO	YW1L-AF2E20Q ③ ②		
			2NC	YW1L-AF2E02Q ③ ②		
			1NO-1NC	YW1L-AF2E11Q ③ ②		
Mushroom ø40mm  	Without Lamp	Momentary	1NO	YW1L-M4E10Q0 ②	0: without lamp 250V AC/DC max.	A: amber G: green R: red S: blue W: white Y: yellow
			1NC	YW1L-M4E01Q0 ②		
			2NO	YW1L-M4E20Q0 ②		
			2NC	YW1L-M4E02Q0 ②		
			1NO-1NC	YW1L-M4E11Q0 ②		
		Maintained	1NO	YW1L-A4E10Q0 ②		
			1NC	YW1L-A4E01Q0 ②		
			2NO	YW1L-A4E20Q0 ②		
			2NC	YW1L-A4E02Q0 ②		
			1NO-1NC	YW1L-A4E11Q0 ②		
	LED	Momentary	1NO	YW1L-M4E10Q ③ ②	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow Built-in LED lamp: LSED-③ ②
			1NC	YW1L-M4E01Q ③ ②		
			2NO	YW1L-M4E20Q ③ ②		
			2NC	YW1L-M4E02Q ③ ②		
			1NO-1NC	YW1L-M4E11Q ③ ②		
		Maintained	1NO	YW1L-A4E10Q ③ ②		
			1NC	YW1L-A4E01Q ③ ②		
			2NO	YW1L-A4E20Q ③ ②		
			2NC	YW1L-A4E02Q ③ ②		
			1NO-1NC	YW1L-A4E11Q ③ ②		

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Shape	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	② Lens Color Code
	Incandescent	Momentary	1NO	YW1L-M4E10Q ③②	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	A: amber G: green R: red S: blue W: white Y: yellow Built-in incandescent lamp: LS-T③
			1NC	YW1L-M4E01Q ③②		
			2NO	YW1L-M4E20Q ③②		
			2NC	YW1L-M4E02Q ③②		
		Maintained	1NO-1NC	YW1L-M4E11Q ③②		
			1NO	YW1L-A4E10Q ③②		
			1NC	YW1L-A4E01Q ③②		
			2NO	YW1L-A4E20Q ③②		
			2NC	YW1L-A4E02Q ③②		
			1NO-1NC	YW1L-A4E11Q ③②		

Note: Specify a lens color code in place of ② in the Part No.
Specify an operating voltage code in place of ③ in the Part No.

Illuminated Pushbuttons with Metal Bezel

Shape	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	② Lens Color Code
 	Without Lamp	Momentary	1NO	YW4L-M2E10Q0 ②	0: without lamp 250V AC/DC max.	A: amber G: green R: red S: blue W: white Y: yellow
			1NC	YW4L-M2E01Q0 ②		
			2NO	YW4L-M2E20Q0 ②		
			2NC	YW4L-M2E02Q0 ②		
		Maintained	1NO-1NC	YW4L-M2E11Q0 ②		
			1NO	YW4L-A2E10Q0 ②		
			1NC	YW4L-A2E01Q0 ②		
			2NO	YW4L-A2E20Q0 ②		
			2NC	YW4L-A2E02Q0 ②		
			1NO-1NC	YW4L-A2E11Q0 ②		
	LED	Momentary	1NO	YW4L-M2E10Q ③②	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow Built-in LED lamp: LSED-③②
			1NC	YW4L-M2E01Q ③②		
			2NO	YW4L-M2E20Q ③②		
			2NC	YW4L-M2E02Q ③②		
		Maintained	1NO-1NC	YW4L-M2E11Q ③②		
			1NO	YW4L-A2E10Q ③②		
			1NC	YW4L-A2E01Q ③②		
			2NO	YW4L-A2E20Q ③②		
			2NC	YW4L-A2E02Q ③②		
			1NO-1NC	YW4L-A2E11Q ③②		
	Incandescent	Momentary	1NO	YW4L-M2E10Q ③②	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	A: amber G: green R: red S: blue W: white Y: yellow Built-in incandescent lamp: LS-T③
			1NC	YW4L-M2E01Q ③②		
			2NO	YW4L-M2E20Q ③②		
			2NC	YW4L-M2E02Q ③②		
		Maintained	1NO-1NC	YW4L-M2E11Q ③②		
			1NO	YW4L-A2E10Q ③②		
			1NC	YW4L-A2E01Q ③②		
			2NO	YW4L-A2E20Q ③②		
			2NC	YW4L-A2E02Q ③②		
			1NO-1NC	YW4L-A2E11Q ③②		

YW SERIES CONTROL UNITS Ø22 mm

Shape	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	② Lens Color Code
Extended with Full Shroud  	Without Lamp	Momentary	1NO	YW4L-MF2E10Q0 ②	0: without lamp 250V AC/DC max.	A: amber G: green R: red S: blue W: white Y: yellow
			1NC	YW4L-MF2E01Q0 ②		
			2NO	YW4L-MF2E20Q0 ②		
			2NC	YW4L-MF2E02Q0 ②		
		Maintained	1NO-1NC	YW4L-MF2E11Q0 ②		
			1NO	YW4L-AF2E10Q0 ②		
			1NC	YW4L-AF2E01Q0 ②		
			2NO	YW4L-AF2E20Q0 ②		
			2NC	YW4L-AF2E02Q0 ②		
			1NO-1NC	YW4L-AF2E11Q0 ②		
	LED	Momentary	1NO	YW4L-MF2E10Q ③ ②	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow Built-in LED lamp: LSED-③ ②
			1NC	YW4L-MF2E01Q ③ ②		
			2NO	YW4L-MF2E20Q ③ ②		
			2NC	YW4L-MF2E02Q ③ ②		
		Maintained	1NO-1NC	YW4L-MF2E11Q ③ ②		
			1NO	YW4L-AF2E10Q ③ ②		
			1NC	YW4L-AF2E01Q ③ ②		
			2NO	YW4L-AF2E20Q ③ ②		
			2NC	YW4L-AF2E02Q ③ ②		
			1NO-1NC	YW4L-AF2E11Q ③ ②		
	Incandescent	Momentary	1NO	YW4L-MF2E10Q ③ ②	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	A: amber G: green R: red S: blue W: white Y: yellow Built-in incandescent lamp: LS-T ③
			1NC	YW4L-MF2E01Q ③ ②		
			2NO	YW4L-MF2E20Q ③ ②		
			2NC	YW4L-MF2E02Q ③ ②		
		Maintained	1NO-1NC	YW4L-MF2E11Q ③ ②		
			1NO	YW4L-AF2E10Q ③ ②		
			1NC	YW4L-AF2E01Q ③ ②		
			2NO	YW4L-AF2E20Q ③ ②		
			2NC	YW4L-AF2E02Q ③ ②		
			1NO-1NC	YW4L-AF2E11Q ③ ②		
Mushroom ø40mm  	Without Lamp	Momentary	1NO	YW4L-M4E10Q0 ②	0: without lamp 250V AC/DC max.	A: amber G: green R: red S: blue W: white Y: yellow
			1NC	YW4L-M4E01Q0 ②		
			2NO	YW4L-M4E20Q0 ②		
			2NC	YW4L-M4E02Q0 ②		
		Maintained	1NO-1NC	YW4L-M4E11Q0 ②		
			1NO	YW4L-A4E10Q0 ②		
			1NC	YW4L-A4E01Q0 ②		
			2NO	YW4L-A4E20Q0 ②		
			2NC	YW4L-A4E02Q0 ②		
			1NO-1NC	YW4L-A4E11Q0 ②		
	LED	Momentary	1NO	YW4L-M4E10Q ③ ②	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC H: 110/120V AC/DC M3: 230/240V AC/DC	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow Built-in LED lamp: LSED-③ ②
			1NC	YW4L-M4E01Q ③ ②		
			2NO	YW4L-M4E20Q ③ ②		
			2NC	YW4L-M4E02Q ③ ②		
		Maintained	1NO-1NC	YW4L-M4E11Q ③ ②		
			1NO	YW4L-A4E10Q ③ ②		
			1NC	YW4L-A4E01Q ③ ②		
			2NO	YW4L-A4E20Q ③ ②		
			2NC	YW4L-A4E02Q ③ ②		
			1NO-1NC	YW4L-A4E11Q ③ ②		

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Shape	Lamp	Operation	Contact	Part No.	③ Operating Voltage Code	② Lens Color Code
	Incandescent	Momentary	1NO	YW4L-M4E10Q ③②	5: 6V AC/DC 6: 12V AC/DC 7: 24V AC/DC	A: amber G: green R: red S: blue W: white Y: yellow Built-in incandescent lamp: LS-T③
			1NC	YW4L-M4E01Q ③②		
			2NO	YW4L-M4E20Q ③②		
			2NC	YW4L-M4E02Q ③②		
			1NO-1NC	YW4L-M4E11Q ③②		
		Maintained	1NO	YW4L-A4E10Q ③②		
			1NC	YW4L-A4E01Q ③②		
			2NO	YW4L-A4E20Q ③②		
			2NC	YW4L-A4E02Q ③②		
			1NO-1NC	YW4L-A4E11Q ③②		

Note: Specify a lens color code in place of ③ in the Part No.
Specify an operating voltage code in place of ② in the Part No.

Selector Switches with Plastic Bezel

Shape							Knob			
										
No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Maintained	Spring Return from Right	—	—
				L	R	-				
90° 2-Position L R	1NO (10)	1	NO		●		YW1S-2E10	YW1S-21E10	—	—
		2								
		3								
	1NC (01)	1					YW1S-2E01	YW1S-21E01	—	—
		2								
		3	NC	●						
	2NO (20)	1	NO		●		YW1S-2E20	YW1S-21E20	—	—
		2								
		3	NO		●					
	2NC (02)	1	NC	●			YW1S-2E02	YW1S-21E02	—	—
		2								
		3	NC	●						
	1NO-1NC (11)	1	NO		●		YW1S-2E11	YW1S-21E11	—	—
		2								
		3	NC	●						
	3NO (30)	1	NO		●		YW1S-2E30	YW1S-21E30	—	—
		2	NO		●					
		3	NO		●					
	3NC (03)	1	NC	●			YW1S-2E03	YW1S-21E03	—	—
		2	NC	●						
		3	NC	●						



YW SERIES CONTROL UNITS Ø22 mm

No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Maintained	Spring Return from Right	—	—
				L	R	—				
	2NO-1NC (21)	1	NO		●		YW1S-2E21	YW1S-21E21	—	—
		2	NO	●						
		3	NC		●					
	1NO-2NC (12)	1	NO		●		YW1S-2E12	YW1S-21E12	—	—
		2	NC	●						
		3	NC	●						
No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Maintained	Spring Return from Right	Spring Return from Left	Spring Return from Two-Way
				L	C	R				
45° 3-Position 	2NO (20)	1	NO	●			YW1S-3E20	YW1S-31E20	YW1S-32E20	YW1S-33E20
		2								
		3	NO			●				
	2NO (20N1)	1					YW1S-3E20N1	YW1S-31E20N1	YW1S-32E20N1	YW1S-33E20N1
		2	NO	●		●				
		3	NO			●				
	2NC (02)	1	NC			●	YW1S-3E02	YW1S-31E02	YW1S-32E02	YW1S-33E02
		2								
		3	NC	●						
	2NC (02N1)	1					YW1S-3E02N1	YW1S-31E02N1	YW1S-32E02N1	YW1S-33E02N1
		2	NC		●					
		3	NC	●						
	1NO-1NC (11)	1	NO	●			YW1S-3E11	YW1S-31E11	YW1S-32E11	YW1S-33E11
		2								
		3	NC	●						
	1NO-1NC (11N1)	1	NC			●	YW1S-3E11N1	YW1S-31E11N1	YW1S-32E11N1	YW1S-33E11N1
		2								
		3	NO			●				
	1NO-1NC (11N2)	1	NO	●			YW1S-3E11N2	YW1S-31E11N2	YW1S-32E11N2	YW1S-33E11N2
		2	NC		●					
		3								
	1NO-1NC (11N3)	1					YW1S-3E11N3	YW1S-31E11N3	YW1S-32E11N3	YW1S-33E11N3
		2	NC		●					
		3	NO			●				
	1NO-1NC (11N4)	1					YW1S-3E11N4	YW1S-31E11N4	YW1S-32E11N4	YW1S-33E11N4
		2	NO	●		●				
		3	NC	●						
	3NO (30)	1	NO	●			YW1S-3E30	YW1S-31E30	YW1S-32E30	YW1S-33E30
		2	NO	●		●				
		3	NO			●				
	3NC (03)	1	NC			●	YW1S-3E03	YW1S-31E03	YW1S-32E03	YW1S-33E03
		2	NC		●					
		3	NC	●						
	2NO-1NC (21)	1	NO	●			YW1S-3E21	YW1S-31E21	YW1S-32E21	YW1S-33E21
		2	NC		●					
		3	NO			●				
	1NO-2NC (12)	1	NC			●	YW1S-3E12	YW1S-31E12	YW1S-32E12	YW1S-33E12
		2	NO	●		●				
		3	NC	●						

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Selector Switches with Metal Bezel

Shape							Knob			
										
							  			
No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Maintained	Spring Return from Right	—	—
				L	R	—				
90° 2-Position L R	1NO (10)	1	NO		●		YW4S-2E10	YW4S-21E10	—	—
		2								
		3								
	1NC (01)	1					YW4S-2E01	YW4S-21E01	—	—
		2								
		3	NC	●						
	2NO (20)	1	NO		●		YW4S-2E20	YW4S-21E20	—	—
		2								
		3	NO		●					
	2NC (02)	1	NC	●			YW4S-2E02	YW4S-21E02	—	—
		2								
		3	NC	●						
	1NO-1NC (11)	1	NO		●		YW4S-2E11	YW4S-21E11	—	—
		2								
		3	NC	●						
	3NO (30)	1	NO		●		YW4S-2E30	YW4S-21E30	—	—
		2	NO		●					
		3	NO		●					
	3NC (03)	1	NC	●			YW4S-2E03	YW4S-21E03	—	—
		2	NC	●						
		3	NC	●						
	2NO-1NC (21)	1	NO		●		YW4S-2E21	YW4S-21E21	—	—
		2	NO	●						
		3	NC		●					
	1NO-2NC (12)	1	NO		●		YW4S-2E12	YW4S-21E12	—	—
		2	NC	●						
		3	NC	●						
No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Maintained	Spring Return from Right	Spring Return from Left	Spring Return from Two-Way
				L	C	R				
45° 3-Position L C R	2NO (20)	1	NO	●			YW4S-3E20	YW4S-31E20	YW4S-32E20	YW4S-33E20
		2								
		3	NO			●				
	2NO (20N1)	1					YW4S-3E20N1	YW4S-31E20N1	YW4S-32E20N1	YW4S-33E20N1
		2	NO	●		●				
		3	NO			●				
	2NC (02)	1	NC		●	●	YW4S-3E02	YW4S-31E02	YW4S-32E02	YW4S-33E02
		2								
		3	NC	●	●					

YW SERIES CONTROL UNITS Ø22 mm

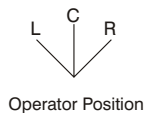
No. of Positions	Contact Configuration	Contact Block Mounting Position	Operator Position			Maintained	Spring Return from Right	Spring Return from Left	Spring Return from Two-Way
			L	C	R				
	2NC (02N1)	1				YW4S-3E02N1	YW4S-31E02N1	YW4S-32E02N1	YW4S-33E02N1
		2		●					
		3	■						
	1NO-1NC (11)	1	●			YW4S-3E11	YW4S-31E11	YW4S-32E11	YW4S-33E11
		2							
		3	■						
	1NO-1NC (11N1)	1			■	YW4S-3E11N1	YW4S-31E11N1	YW4S-32E11N1	YW4S-33E11N1
		2							
		3			●				
	1NO-1NC (11N2)	1	●			YW4S-3E11N2	YW4S-31E11N2	YW4S-32E11N2	YW4S-33E11N2
		2		●					
		3							
	1NO-1NC (11N3)	1				YW4S-3E11N3	YW4S-31E11N3	YW4S-32E11N3	YW4S-33E11N3
		2		●					
		3			●				
	1NO-1NC (11N4)	1	●		●	YW4S-3E11N4	YW4S-31E11N4	YW4S-32E11N4	YW4S-33E11N4
		2	■						
		3	■						
	3NO (30)	1	●			YW4S-3E30	YW4S-31E30	YW4S-32E30	YW4S-33E30
		2	●		●				
		3			●				
	3NC (03)	1			■	YW4S-3E03	YW4S-31E03	YW4S-32E03	YW4S-33E03
		2		●					
		3	■						
	2NO-1NC (21)	1	●			YW4S-3E21	YW4S-31E21	YW4S-32E21	YW4S-33E21
		2		●					
		3			●				
	1NO-2NC (12)	1			■	YW4S-3E12	YW4S-31E12	YW4S-32E12	YW4S-33E12
		2	●		●				
		3	■						

Contact Block Mounting Position

Selector Switch with Plastic Bezel

Contact Block Mounting Position

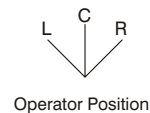
1 2 3



Selector Switch with Metal Bezel

Contact Block Mounting Position

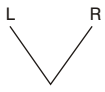
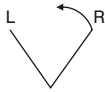
1 2 3



SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

Key Selector Switches (90° 2-Position)

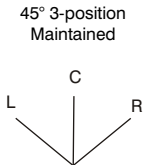
No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position		Part No.	
				L	R	Plastic Bezel	Metal Bezel
							
90° 2-position Maintained 	1NO (10)	1	NO		●	YW1K-2AE10	YW4K-2AE10
		2					
		3					
	1NC (01)	1				YW1K-2AE01	YW4K-2AE01
		2					
		3	NC	●			
	2NO (20)	1	NO		●	YW1K-2AE20	YW4K-2AE20
		2					
		3	NO		●		
	2NC (02)	1	NC	●		YW1K-2AE02	YW4K-2AE02
		2					
		3	NC	●			
	1NO-1NC (11)	1	NO		●	YW1K-2AE11	YW4K-2AE11
		2					
		3	NC	●			
	3NO (30)	1	NO		●	YW1K-2AE30	YW4K-2AE30
		2	NO		●		
		3	NO		●		
	3NC (03)	1	NC	●		YW1K-2AE03	YW4K-2AE03
		2	NC	●			
		3	NC	●			
	2NO-1NC (21)	1	NO		●	YW1K-2AE21	YW4K-2AE21
		2	NO	●			
		3	NC		●		
	1NO-2NC (12)	1	NO		●	YW1K-2AE12	YW4K-2AE12
		2	NC	●			
		3	NC	●			
90° 2-position Spring Return from Right 	1NO (10)	1	NO		●	YW1K-21BE10	YW4K-21BE10
		2					
		3					
	1NC (01)	1				YW1K-21BE01	YW4K-21BE01
		2					
		3	NC	●			
	2NO (20)	1	NO		●	YW1K-21BE20	YW4K-21BE20
		2					
		3	NO		●		
	2NC (02)	1	NC	●		YW1K-21BE02	YW4K-21BE02
		2					
		3	NC	●			
	1NO-1NC (11)	1	NO		●	YW1K-21BE11	YW4K-21BE11
		2					
		3	NC	●			
	3NO (30)	1	NO		●	YW1K-21BE30	YW4K-21BE30
		2	NO		●		
		3	NO		●		
	3NC (03)	1	NC	●		YW1K-21BE03	YW4K-21BE03
		2	NC	●			
		3	NC	●			
	2NO-1NC (21)	1	NO		●	YW1K-21BE21	YW4K-21BE21
		2	NO	●			
		3	NC		●		
	1NO-2NC (12)	1	NO		●	YW1K-21BE12	YW4K-21BE12
		2	NC	●			
		3	NC	●			

- On the spring-returned types, the key can be removed only from the maintained position. On the maintained types, the key can be removed from every position. Key retained positions are also available.
- Each key selector switch is supplied with two identical keys.



YW SERIES CONTROL UNITS Ø22 mm

Key Selector Switches (45° 3-Position)

No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Part No.	
				L	C	R	Plastic Bezel	Metal Bezel
 45° 3-position Maintained	2NO (20)	1	NO	●				
		2						
		3	NO			●		
	2NO (20N1)	1					YW1K-3AE20N1	YW4K-3AE20N1
		2	NO	●		●		
		3	NO			●		
	2NC (02)	1	NC		■		YW1K-3AE02	YW4K-3AE02
		2						
		3	NC	■				
	2NC (20N1)	1			●		YW1K-3AE02N1	YW4K-3AE02N1
		2	NC					
		3	NC	■				
	1NO-1NC (11)	1	NO	●			YW1K-3AE11	YW4K-3AE11
		2						
		3	NC	■				
	1NO-1NC (11N1)	1	NC		■		YW1K-3AE11N1	YW4K-3AE11N1
		2						
		3	NO			●		
	1NO-1NC (11N2)	1	NO	●			YW1K-3AE11N2	YW4K-3AE11N2
		2	NC		●			
		3						
	1NO-1NC (11N3)	1					YW1K-3AE11N3	YW4K-3AE11N3
		2	NC		●			
		3	NO			●		
	1NO-1NC (11N4)	1		●		●	YW1K-3AE11N4	YW4K-3AE11N4
		2	NO	●				
		3	NC	■				
	3NO (30)	1	NO	●			YW1K-3AE30	YW4K-3AE30
		2	NO	●		●		
		3	NO	●		●		
	3NC (30)	1	NC		■		YW1K-3AE03	YW4K-3AE03
		2	NC		●			
		3	NC	■				
	2NO-1NC (21)	1	NO	●			YW1K-3AE21	YW4K-3AE21
		2	NC		●			
		3	NO			●		
	1NO-2NC (12)	1	NC		■		YW1K-3AE12	YW4K-3AE12
		2	NO	●		●		
		3	NC	■				

- On the maintained types, the key can be removed from every position. Key retained positions are also available. See Part No. Development below.
- Each key selector switch is supplied with two identical keys.

Part No. Development

YW1K-2 A E21

Key removal position code

2-position

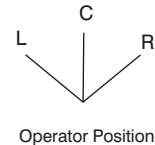
- A: Removable in all positions
- B: Removable in left only
- C: Removable in right only

3-position

- A: Removable in all positions
- B: Removable in left and center
- C: Removable in right and center
- D: Removable in center only
- E: Removable in right and left
- G: Removable in left only
- H: Removable in right only

Contact Block Mounting Position

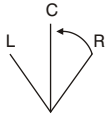
Contact Block Mounting Position



SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

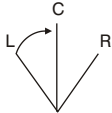
Key Selector Switches (45° 3-Position)

No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Part No.	
				L	C	R	Plastic Bezel	Metal Bezel
45° 3-position Spring Return from Right 	2NO (20)	1	NO	●			 YW1K-31BE20	 YW4K-31BE20
		2						
		3	NO			●		
	2NO (20N1)	1					YW1K-31BE20N1	YW4K-31BE20N1
		2	NO	●		●		
		3	NO			●		
	2NC (02)	1	NC		■		YW1K-31BE02	YW4K-31BE02
		2						
		3	NC	■				
	2NC (02N1)	1					YW1K-31BE02N1	YW4K-31BE02N1
		2	NC		●			
		3	NC	■				
	1NO-1NC (11)	1	NO	●			YW1K-31BE11	YW4K-31BE11
		2						
		3	NC	■				
	1NO-1NC (11N1)	1	NC		■		YW1K-31BE11N1	YW4K-31BE11N1
		2						
		3	NO			●		
	1NO-1NC (11N2)	1	NO	●			YW1K-31BE11N2	YW4K-31BE11N2
		2	NC		●			
		3						
	1NO-1NC (11N3)	1					YW1K-31BE11N3	YW4K-31BE11N3
		2	NC		●			
		3	NO			●		
	1NO-1NC (11N4)	1					YW1K-31BE11N4	YW4K-31BE11N4
		2	NO	●		●		
		3	NC	■				
	3NO (30)	1	NO	●			YW1K-31BE30	YW4K-31BE30
		2	NO	●		●		
		3	NO			●		
	3NC (03)	1	NC		■		YW1K-31BE03	YW4K-31BE03
		2	NC		●			
		3	NC	■				
	2NO-1NC (21)	1	NO	●			YW1K-31BE21	YW4K-31BE21
		2	NC		●			
		3	NO			●		
	1NO-2NC (12)	1	NC		■		YW1K-31BE12	YW4K-31BE12
		2	NO	●		●		
		3	NC	■				

- On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available.
- Each key selector switch is supplied with two identical keys.

YW SERIES CONTROL UNITS Ø22 mm

Key Selector Switches (45° 3-Position)

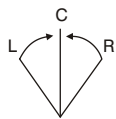
No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Part No.	
				L	C	R	Plastic Bezel	Metal Bezel
45° 3-position Spring Return from Left 	2NO (20)	1	NO	●			 YW1K-32CE20	 YW4K-32CE20
		2						
		3	NO			●		
	2NO (20N1)	1					YW1K-32CE20N1	YW4K-32CE20N1
		2	NO	●		●		
		3	NO			●		
	2NC (02)	1	NC		■	■	YW1K-32CE02	YW4K-32CE02
		2						
		3	NC	■				
	2NC (02N1)	1					YW1K-32CE02N1	YW4K-32CE02N1
		2	NC		●			
		3	NC	■				
	1NO-1NC (11)	1	NO	●			YW1K-32CE11	YW4K-32CE11
		2						
		3	NC	■				
	1NO-1NC (11N1)	1	NC		■	■	YW1K-32CE11N1	YW4K-32CE11N1
		2						
		3	NO			●		
	1NO-1NC (11N2)	1	NO	●			YW1K-32CE11N2	YW4K-32CE11N2
		2	NC		●			
		3						
	1NO-1NC (11N3)	1					YW1K-32CE11N3	YW4K-32CE11N3
		2	NC		●			
		3	NO			●		
	1NO-1NC (11N4)	1					YW1K-32CE11N4	YW4K-32CE11N4
		2	NO	●		●		
		3	NC	■				
	3NO (30)	1	NO	●			YW1K-32CE30	YW4K-32CE30
		2	NO	●		●		
		3	NO			●		
	3NC (03)	1	NC		■	■	YW1K-32CE03	YW4K-32CE03
		2	NC		●			
		3	NC	■				
	2NO-1NC (21)	1	NO	●			YW1K-32CE21	YW4K-32CE21
		2	NC		●			
		3	NO			●		
	1NO-2NC (12)	1	NC		■	■	YW1K-32CE12	YW4K-32CE12
		2	NO	●		●		
		3	NC	■				

- On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available.
- Each key selector switch is supplied with two identical keys.

SWITCHES

YW SERIES CONTROL UNITS Ø22 mm

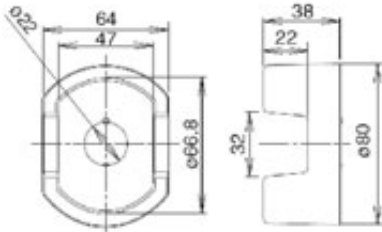
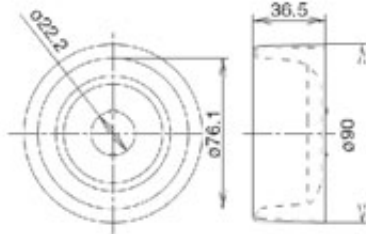
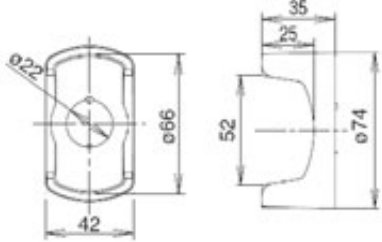
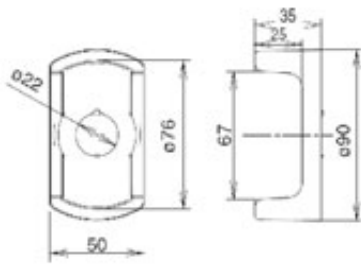
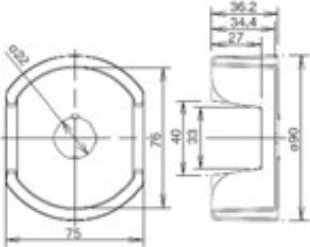
Key Selector Switches (45° 3-Position)

No. of Positions	Contact Configuration	Contact Block Mounting Position		Operator Position			Part No.	
				L	C	R	Plastic Bezel	Metal Bezel
45° 3-position Spring Return from Two-way 	2NO (20)	1	NO	●			 YW1K-33DE20	 YW4K-33DE20
		2						
		3	NO			●		
	2NO (20N1)	1					YW1K-33DE20N1	YW4K-33DE20N1
		2	NO	●		●		
		3	NO			●		
	2NC (02)	1	NC		■		YW1K-33DE02	YW4K-33DE02
		2						
		3	NC	■				
	2NC (02N1)	1					YW1K-33DE02N1	YW4K-33DE02N1
		2	NC		●			
		3	NC	■				
	1NO-1NC (11)	1	NO	●			YW1K-33DE11	YW4K-33DE11
		2						
		3	NC	■				
	1NO-1NC (11N1)	1	NC		■		YW1K-33DE11N1	YW4K-33DE11N1
		2						
		3	NO			●		
	1NO-1NC (11N2)	1	NO	●			YW1K-33DE11N2	YW4K-33DE11N2
		2	NC		●			
		3						
	1NO-1NC (11N3)	1					YW1K-33DE11N3	YW4K-33DE11N3
		2	NC		●			
		3	NO			●		
	1NO-1NC (11N4)	1		●		●	YW1K-33DE11N4	YW4K-33DE11N4
		2	NO	●		●		
		3	NC	■				
	3NO (30)	1	NO	●			YW1K-33DE30	YW4K-33DE30
		2	NO	●		●		
		3	NO			●		
	3NC (03)	1	NC		■		YW1K-33DE03	YW4K-33DE03
		2	NC		●			
		3	NC	■				
	2NO-1NC (21)	1	NO	●			YW1K-33DE21	YW4K-33DE21
		2	NC		●			
		3	NO			●		
	1NO-2NC (12)	1	NC		■		YW1K-33DE12	YW4K-33DE12
		2	NO	●		●		
		3	NC	■				

- On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available.
- Each key selector switch is supplied with two identical keys.

YW SERIES CONTROL UNITS Ø22 mm

Switch Guards

Part No. & Shape (mm)	Dimensions (mm)
 EMO Switch Guard SEMI S2 compliant	
 EMO Switch Guard SEMI S2 compliant SEMATECH compliant	
 EMO Switch Guard SEMI S2 compliant	
 EMO Switch Guard SEMI S2 compliant SEMATECH compliant	
 EMO Switch Guard SEMI S2 compliant SEMATECH compliant	

Material: Polyamide (PA6)
Color: Yellow, Munsell 2.5Y 8/10 equivalent

Degree of protection: IP65

• Degree of protection IP65 applies to the combination of an emergency stop switch and an EMO switch guard.

TIMERS AND POWER SUPPLIES

TIMERS AND POWER SUPPLIES



IDEC offers several varieties of multi-range and multi-function timers, with many different models in each series. Choose the right timer based on your timing function, time range, contact configuration and socket needs. The ON Delay GE1A timer offer ranges up to 10 hours, and so do the multifunction RTE timers, while the GT3A offer ranges up to 180 hours. All timers have corresponding IDEC sockets to make the most efficient connection.

IDEC switching power supplies are the highest quality on the market and offer the ultimate in performance and reliability. Slim line, standard or metal frame models are available with worldwide approvals, universal input voltage, fused inputs and overload protection.



Multi-Function GT3 Series Timers

- GT5P: Specify time range per model.
- GT5P: SPDT (8 pin octal).
- GT5Y: DPDT or 4PDT.
- GT5Y: Four time ranges per model.
- GT5Y: Uses the same sockets and hold-down clips as IDEC's RY4S and RU series relays.
- Power "On" and timing "Out" indicating LEDs.



Single-Function GT5 Series Timers

- GT5P: Specify time range per model.
- GT5P: SPDT (8 pin octal).
- GT5Y: DPDT or 4PDT.
- GT5Y: Four time ranges per model.
- GT5Y: Uses the same sockets and hold-down clips as IDEC's RY4S and RU series relays.
- Control settings by hand or screwdriver.
- Power "On" and timing "Out" indicating LEDs.



Single-Function GE1A Series Timers

- 45mm x 45mm DIN standard housing.
- Large, clear knob for easy setting.
- Time delays from 0.1 sec to 10 hours.
- Delay on Make (ON delay) function.
- "Power" and "Out" LED indicators.
- UL listed, CSA certified, TUV approved and CE marked.
- Optional clear, plastic cover.

TIMERS AND POWER SUPPLIES



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.

MICROSMART PROGRAMMABLE LOGIC CONTROLLERS



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



Connect Your Devices by Expanding to 7 Ports

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 for data link or modem communications.
- Built in Modbus-CRC, PID and Ramp functions.
- Data link for up to 32 MicroSmart or other IEC 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.

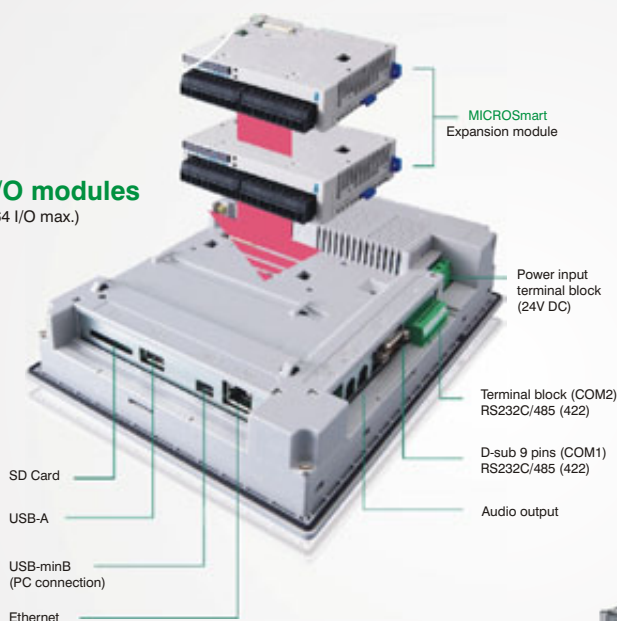
OPERATOR INTERFACE



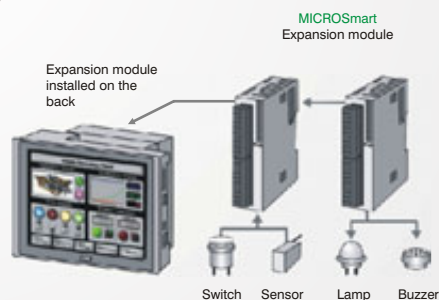
IDEC's operator interface products offer a perfect solution for your display needs. Bright LCD touch screens deliver crisp images, with powerful configuration tools that allow you to easily create a user-friendly and powerful system, enhancing your "Human Machine Interaction."



Add I/O modules
(64 I/O max.)



Simple I/O Control



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).

HG2G-5F

5.7 inch



New

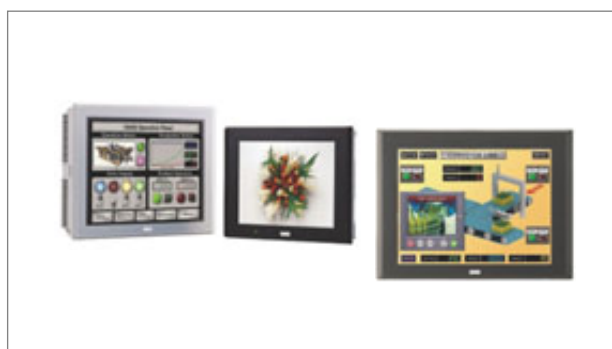
167.2 × 134.7 × 54.4 mm
VGA (640 × 480)
TFT65,536 colors

Single 800 color	LED 50,000 Hours	48-level Brightness Adjustment	Graphics
Stroke Fonts	Serial Interface	Ethernet	USB mini-B
USB A	2 Expansion Modules	O/I Link	Cyclic Script
SD Card	USB Flash Drive	High Speed CPU	High Speed Data
User Memory 12MB	Pict Bridge	Front Panel Maintenance	Voltage 24V DC

Vertical
OK

Bezel
Color

Light gray Dark gray Silver



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 can be mounted.
- Multimedia models with video and audio record and play back high 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 GB max.).
- Video and audio saved in an SD card can be played.
- IP 66 (front part when mounted) (IEC 60529).

RELAYS

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 well with 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.

OMRON

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-in diode and CR (surge suppression), bifurcated contacts, etc.
- Max. Switching Current: 2-pole: 10 A, 4-pole: 5 A.
- RoHS Compliant.



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 operating coils 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), UI508, 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 certified.
- 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 and 10 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.

SWITCHES

SNAP ACTION SWITCHES



For switching Omron Electronics provide the quality driven products and reliable support to satisfy your design needs and time to market goals. Omron delivers a snap action switch that will drop right into your application. Saving your time, component counts and cost, while improving your products overall quality.

Omron's broad array of sealed and unsealed snap-action switches are available with a variety of ratings, actuators and termination options. The versatile SS family of Subminiature Snap Switches are available in models with switching capacities ranging from micro load to high-capacity. Tactile Switches, Single point of contact Domes and Dome Arrays provides crisp tactile feedback for panels.



D3V Series

- Reliable basic switch with external lever.
- Available by 21A, 16A, 11A, 6A and 0.1A models, all with self-cleaning contacts.
- Available with internally or externally fitted levers, and 2 fixing positions for external levers.



D2SW Series

- Sealed subminiature basic switch conforming to IP 67 (Excluding the terminals on terminal models).
- Use of epoxy resin assures stable sealing, making this switch ideal for places subject to water spray or excessive dust.
- Ideal for automobiles, automatic vending machines, refrigerators, ice-making equipment etc.
- UL, CSA, VDE safety standard approved models are available.



D3D Series

- A Switch with crimp-type connectors reduces wiring work. 9 mm long stroke (plunger model).
- Choose from plunger or lever as the actuator type.
- Crimp-type connector offers an easy wiring work and efficiency.
- Snap-fit attachment for easy installation.
- Providing long stroke with its unique mechanism.
- Variety of color models available.

TACTILE SWITCHES



B3F Series

- A wide range of models : 6×6 mm, 12x12 mm, side-operated, high-force, and gold-plated.
- Extended mechanical/electrical durability : 10x10⁶ operations for 12x12 mm type and 1x10⁶ operations for the 6x6 mm type.
- Taped radial type, vertical type and high force types are available.
- Gold plated models available for increased contact reliability, resistance to corrosive gas and insulation failure prevention.



B3M Series

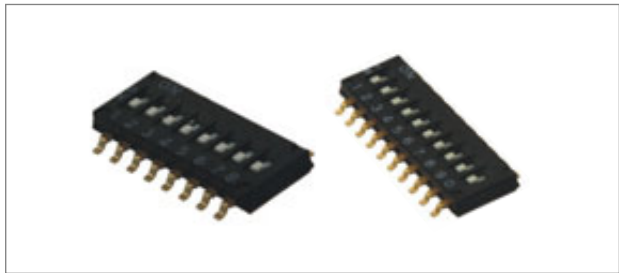
- Designed for a long stroke and positive click.
- Long stroke of 0.85 mm provides radically improved operability.
- Light touch with a minimum over stroke of 0.25mm.
- High durability achieved with 2,000,000-operation capability.



B3SN Series

- Compact surface mount tactile switch with sealed construction.
- Sealed construction conforming to IP67 (IEC-60529) provides high reliability in locations exposed to dust or water. (* Excluding the terminal section).
- Available with ground terminals for protection against static electricity.
- Gold plated version enables stable contact and insulation over long periods of time.

DIP SWITCHES



A6H Series

- Ultra-low profile, half-pitch, surface-mounting DIP switch.
- Very low profile of 1.55 mm.
- Half-pitch (1.27 mm) design allows greater compactness and reduces mounting space by 63% (compared with conventional models).
- Washable, seal tape and embossed tapping models available.
- RoHS Compliant.



A6R/A6RV Series

- Low-cost rotary DIP switches.
- Series includes top-actuated, side-actuated, flat and extended-shaft models.
- The rotor has an O-ring sealed construction that prevents the ingress of dirt and dust.
- Two different types of terminal arrangements are available for each model to allow flexibility of circuit design.
- RoHS Compliant.



A6C Series

- Highly reliable subminiature DIP switch.
- A precise rotary cam and contact driving mechanism achieve compactness for high-precision mounting.
- Top-actuated and side-actuated models included in series.
- Insert-molded terminals and an O-ring sealed rotor combine to form a sealed construction equivalent to IP 64 (IEC 60529) that prevents flux penetration and provides high contact reliability even in dusty locations and locations where water is used.

RELAYS

SOLID STATE RELAYS



Crydom manufactures the world's broadest range of Solid state relays.

Quality, innovation and customer service have been key elements of Crydom's success.

Many leading manufacturers incorporate Crydom parts in their products - the primary reason being their high levels of performance, reliability and value. Crydom's strategy is to provide a high quality product, backed by innovative engineering know-how and a quality driven manufacturing process.



M-OAC & M-ODC Series

- AC modules have high current thyristors with 100 Amp. surge capability.
- Plug into mounting boards for 0.6" modules.
- Zero or random turn-on available in AC modules.
- 4kV optical isolation (1500V AC isolation for FET DC output modules).
- UL recognized, CSA certified, CE compliant.
- Industry standard packaging and color coding black (AC output) red (DC Output).



CN Series

- 5 mm mini SIP solid state relay (SSR).
- Ratings 24V DC @ 3.5A, 48V DC @ 100mA and 240V AC @ 2A.
- DC control 5, 24 and 60V.
- UL & cUL recognized @ 40°C, 100K-cycle endurance test.
- CE & RoHS compliant.

crydom

SOLID STATE RELAYS



CMX Series

- SIP SSR.
- Ratings to 20A @ 60V DC, 10A @ 100V DC, 10A @ 60V DC and 3A @ 200V DC.
- MOSFET output.
- DC control.
- Low on-state impedance.
- CE compliant to EN60950-1.



3 Phase SSR Relay

- Three-phase solid-state relay; Ratings 25A, 50A per phase @ 48-530V AC.
- 2 package styles IP20 or IP00 (See IP00 spec sheet for more information).
- SCR output for heavy industrial loads.
- AC or DC control.
- Zero-crossing (resistive loads) or random-fire (inductive loads) output.
- LED input status indicator.
- Transient protection built in.



ED Series

- DC output solid state relay in an industry standard EMR plug in package.
- Ratings of 5Amp.
- Load voltage range of 1-48V DC and 1-80V DC.
- Fits standard DIN rail & PCB mountable sockets.
- LED input status indicator.
- AC or DC control.
- cUL recognized, IEC rated, CE & RoHS compliant.
- Motor controller rated.

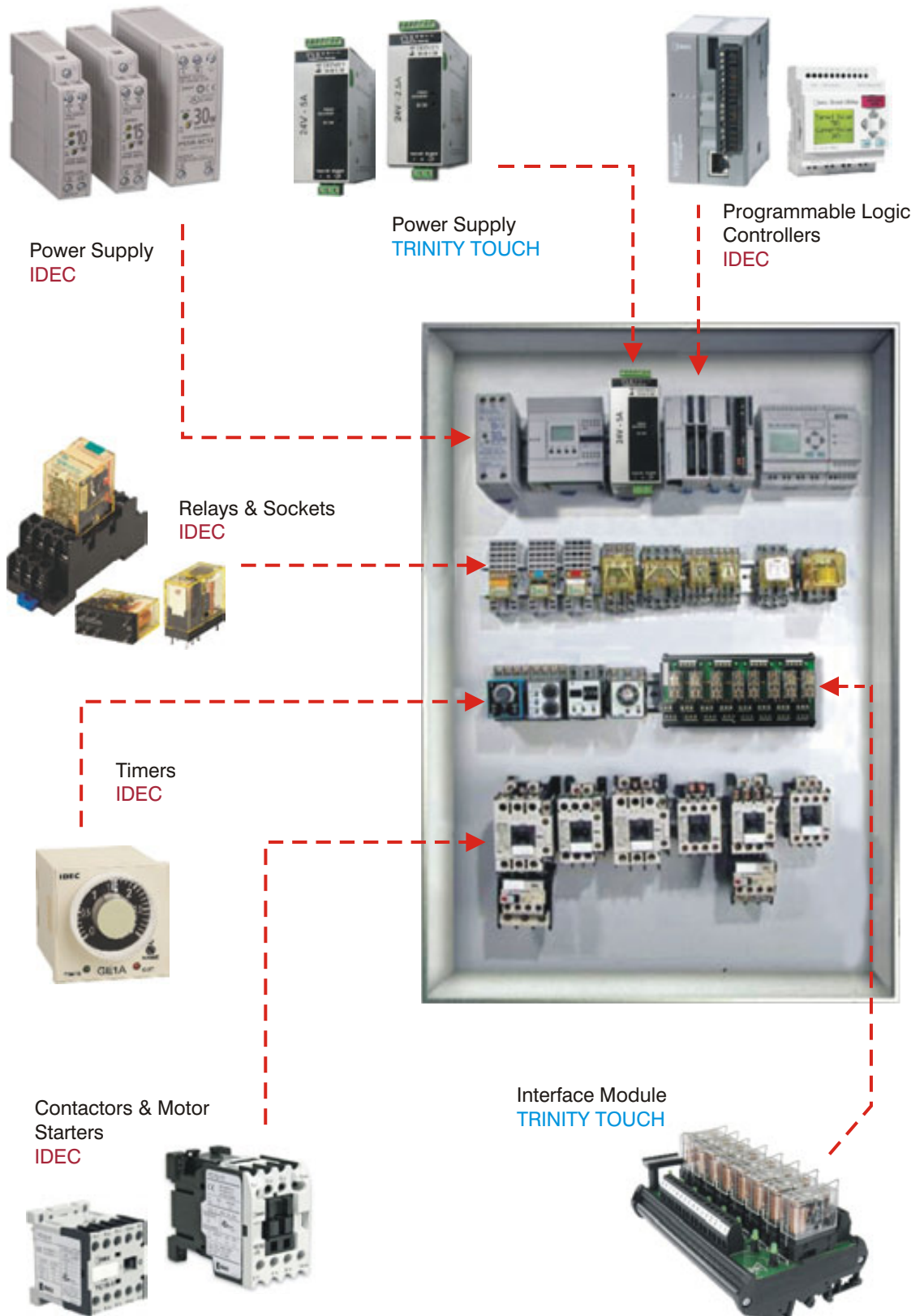


1 Phase SSR Relay

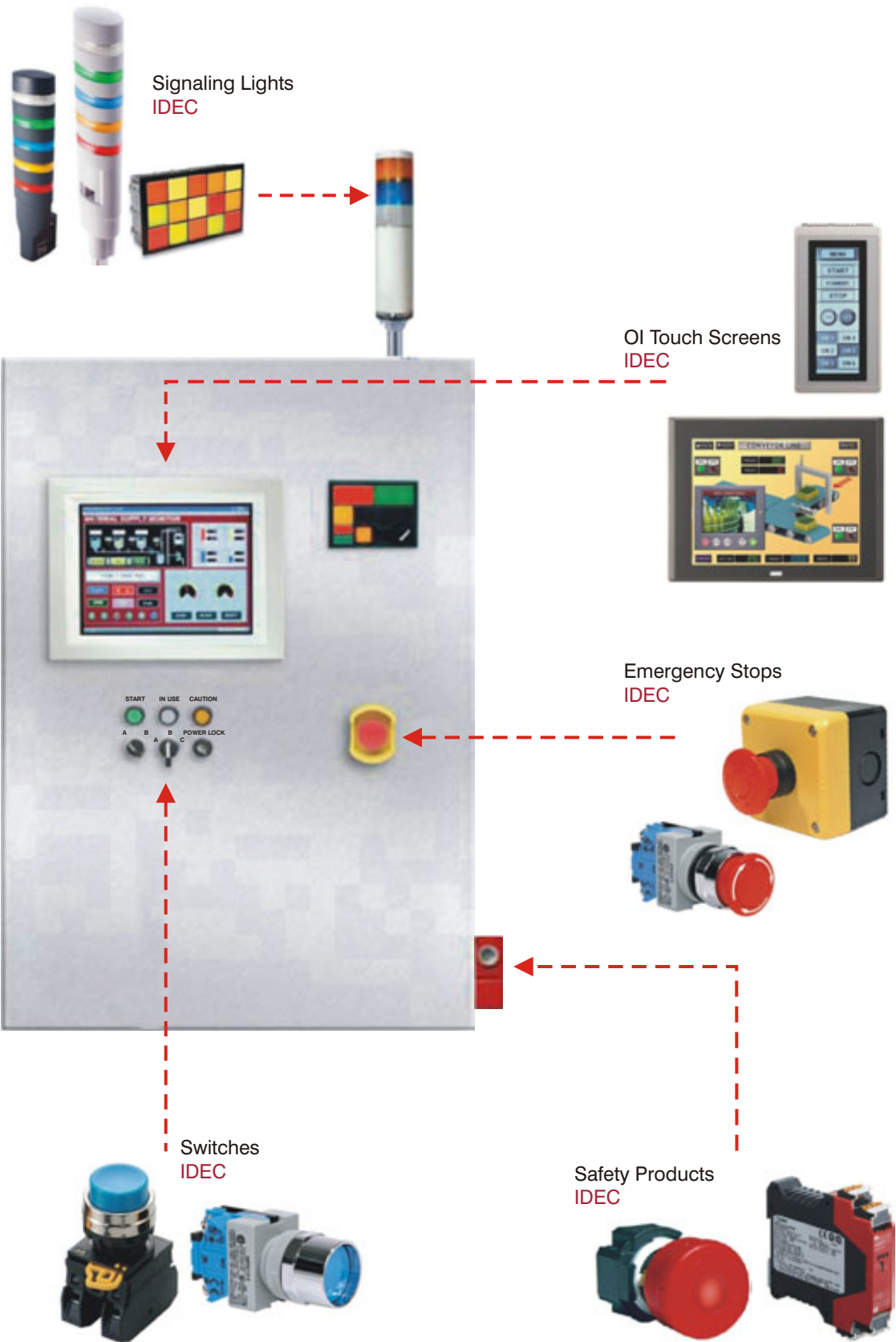
- Ratings from 25A to 125A @ 48-530V AC.
- SCR output for heavy industrial loads.
- DC control.
- Zero-crossing (resistive loads) or random-fire (inductive loads) output.
- UL/CSA/VDE approved, CE compliant to EN60950-1.

PRODUCT DISPLAY

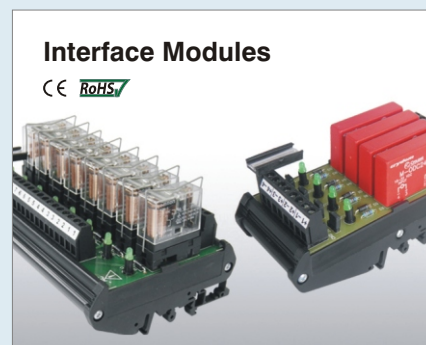
PRODUCT DISPLAY



PRODUCT DISPLAY



Other Product Programs



Trinity Touch Pvt. Ltd.

www.trinitytouch.com

INDIA

D-10, Defence Colony, New Delhi 110024 INDIA
Tel: +91.11.30895900 / +91.11.71200900
Fax: +91.11.30895998 / +91.11.71200998
E-mail: postmaster@trinitytouch.com

Works & Warehouse

Prithla- Dudhola road, Dudhola Distt. Palwal 121102,
Haryana INDIA
Tel: +91.1275.398500 E-mail: sales@trinitytouch.com

Trinity Touch (EUROPE) Ltd.

www.trinitytouch.co.uk

UK

UNIT-I, Tyson Courtyard, Weldon South Industrial Estate, Corby, Northants, NN18 8AZ, UK
Tel: +44 (0) 1536 400 641 Fax: +44 (0) 1536 268 043
E-mail: gbsales@trinitytouch.com