



Think Automation and beyond...



Push-in Products

Safe, Simple, & Smart.

IDEC CORPORATION





All thoughts focused on the same goal

Since the late 1970s, IDEC has continued to instill and pursue "Save and Safe", as part of our corporate DNA. Along with the rapid advancement in machine intelligence and demands for environmental resistance and high reliability in recent years, we need to face societal issues such as shortage in workforce.

To solve these issues, we have set as our goals "Safe, Simple & Smart=S³ (S cube)", aiming to provide society with products and services that will bring about greater innovation and lasting quality.

Safe

Products anyone can use with safety and assurance, from a company seeking to be number one in safety

Simple

Products appreciated by all our customers for their ease of connection regardless of experience

Smart

Products that make labor-saving and space-saving a reality



Push-in Product Lineup

HW & CW Series

ø22 Switches & Pilot Lights





Relay Sockets



FC6A MICROSmart

Programmable Logic Controllers



HR5S

Safety Relay Modules

Push-in

Simple wiring for greater work efficiency Smart Simple

Ferrules and solid wires can be connected simply by push-in insertion, without a screwdriver. (*1) To remove, a flat-blade screwdriver is inserted in a simple two-action process.

Since wiring can be performed regardless of operators' skill level, wiring time is reduced.

*1) When connecting stranded wire, insert the wire while holding down the pusher with a flat-blade screwdriver.

Connecting





Connection is completed.

Pull lightly to make sure it

is firmly in place.

Push the wire straight in as far as it will go.

Removing



Hold down the pusher with a flat-blade screwdriver.



While holding down the pusher, pull out the wire. Release the flat-blade screwdriver.

Time saving and efficient Smart

Push-in connections are made simple by inserting the wire, reducing wiring time by approximately 55% compared to conventional screw terminals.

[Conditions] Push-in: Insert wire with ferrule.

Screw terminals: With screw loosened, insert wire, then tighten with electric driver.





Reliable and easy

Finger-safe structure and vibration resistance. What's more, the space-saving design means better workability in a smaller space.

Stays firmly in place

Since the ferrule is held in place by a spring load, the wiring remains taut and vibration resistance is improved.

Finger-safe structure

IP20 Finger-safe protection enables wiring to be performed without direct contact between screwdriver and conductive part.





Before inserting wire

Wire inserted



Wiring procedure comparison Smart

Work can be performed without using tools and regardless of operators' skill level. *1) When ferrule is used.

Conventional Screw terminal



Insert wire

Pull lightly to confirm



Because screws are not used on push-in terminals, re-tightening of screws is not required.





HW & CW series push-in terminals. **Reduces wiring and** tightening work.

Space-Saving

Contact block depth reduced



Saves space inside panel and enables downsizing of equipment.

4-contact configuration available with double contact blocks.

NEW

Double contact block







Pilot lights full voltage type



Conventional HW Series

Panel depth reduced by 50% Down





Conventional HW Series

Downsize 30% Down

Push-in HW Series

NEW Illuminated pushbuttons 100/120V AC/DC, 200/220V AC, 230/240V AC

Panel depth reduced by 40% Down



Push-in HW Series

Conventional HW Series

No transformers required for high voltage models



Smart

Angled Connections



Angled connections make wiring easy even when switches are mounted on a panel.

Also, 24-degree inclination of the terminal block contributes to downsizing of the panel and equipment.



NEW

High voltage LED illuminated unit for illuminated pushbuttons

100/120V AC/DC, 200/220V AC, 230/240V AC types available. No transformers required and same depth behind the panel for for all illuminated voltages. High voltage models do not require transformers enabling downsizing of equipment and panels.



Locking lever

Usability improved by easy mounting and removal. The mounting status of the contact blocks can be confirmed at a glance from the back of the switch.



Useful

First in the industry HW CW Six different colors with a single LED

Previously, 5 different color LEDs were required but with the new illuminated unit, only a single LED is used.Only the lens needs to be replaced to change the illumination color. The new LED reduces maintenance time, makes stock control easier, and is environmentally friendly.



High visibility with new LED

HW CW

Brighter and clearer compared to conventional LEDS



IS03864-4 Safety color compliant

Safety colors are defined with ISO standards. The bright and clears colors are suited for emergency situations *Except for products below

Illuminated selector switches (illumination color: S (Blue), PW (Pure white))
Illuminated pushbuttons (illumination color: S (Blue))

Added Value

Test point

A test point is available to check connectivity of the wiring. Check the connectivity easily using a tester.



Sub-Assembled Units



Sub-assembled units can be ordered for flexible use, such as sudden changes in design.





One step wiring, easy & quick connection Safe and efficient SJ and SU series Push-in relay sockets

Highly reliable

High visibility

The terminal number on the socket can be clearly seen on the socket preventing incorrect wiring. Also, the distinct color pusher prevents a flat blade screwdriver from being inserted into the wire port.





Wide range of options

Terminal jumpers

Easy wiring to coil side.





SU

Note) The rated current is 2A.

Marking plate



A marking plate enables easy identification of connections. Maintenance time is reduced.





Safe & easy

Equipped with a release lever

The release lever easily holds and removes the relay.





IDEC RF2 force guided relays (SJ) and GT5Y timers (SU) can be mounted





Programmable Logic Controllers FC6A MICROSmar

FC6A PLC I/O module with functions to meet the needs of the IoT era such as remote monitoring and operation.

Time saving

Removable terminal block

Simplifies wiring, installation, and module replacementjust wire the terminal block plugged into a module.



Unmatched Performance

Wide environmental temperature

Enhanced operating temperature allows FC6A to operate from -25° C to 65° C



Safety Relay Modules

Creating a safety system for machines with highly reliable one step wiring.

Category 2 Safety Relay Module

Product Selection



Added Value

Web page creation

Drag and Drop Simplicity. Over 7,000 images available. No HTML programing required. No extra charge for creation software. (Built-in Wind LDR)



Industrial internet of things

MQTT

COMING SOON

MQTT protocols allows FC6A to directly connect to cloud platforms without MQTT gateway. Provides benefit for maintenance and analytics.



Multiple Communication Options

CAN J1939 Protocol



Commonly used in diesel power applications, in vehicle networks for trucks, buses, agriculture & forestry machinery, and marine navigation systems. Note) CAN J1939 All-in-One FC6A CPU module only



Ethernet/IP

Saves wiring time. Connects easily to Ethernet-enabled sensor devices via LAN cables.





Space & cost saving + Highly reliable + Time saving

Performance of Category 2 system



IDEC CORPORATION

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