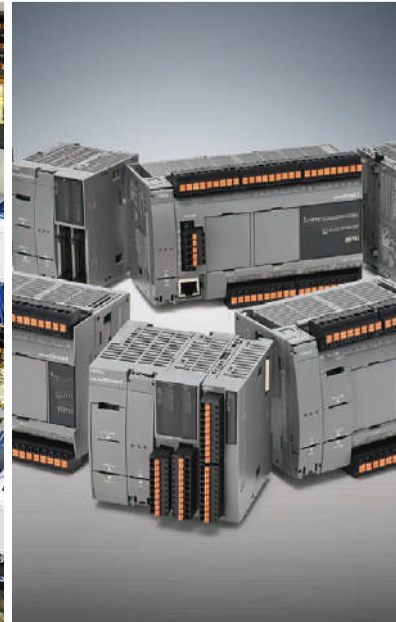# IDEC

Think Automation and beyond...

Product Guide

For Your Application

IDEC CORPORATION

Product Lineup

IDEC provides customers with solutions for manufacturing sites by offering products and services for each industry. We utilize our global network to help our customers expand their production operations efficiently.

HMI

We offer a wide variety of products designed to build a sense of security and trust in the interaction between people and machines in order to create new possibilities.

Industrial Components

We offer various types of control panel products to provide a wide range of solutions.

Safety

Our safety solutions ensure workers' safety and improve productivity at various manufacturing sites.

Automation & Sensing

We ensure a high level of productivity in collaboration with humans, machines, and the environment through IoT and ICT technologies.

Explosion Protection

As the market leader in this industry, we provide our customers with explosion-proof solutions for factory automation, globalization, and other changes that take place in the world.

APEM Products

In 2017, we welcomed APEM, a French manufacturer of HMI products, to IDEC Group. APEM has a history of 65 years in HMI products for markets such as construction, agriculture, specialty vehicles, aerospace, and defense.

Solutions by Industry

Our knowledge and skills related to factory automation accumulated over the years provide solutions for various manufacturing sites across different industries.

Automotive

Solutions for manufacturing sites that require both a high level of productivity and safety.

Click here or flash this QR code to know more.

Machine Tools

Solutions for issues relating to compliance with safety standards, compact designs, and improvement of maintenance effectiveness.
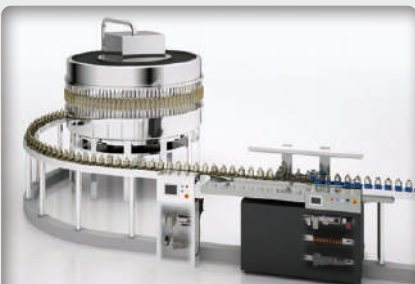
Click here or flash this QR code to know more.

Electronics and Semiconductor

Solutions for minimizing manufacturing footprint and maximizing throughput.

Click here or flash this QR code to know more.

Food and Packaging

Solutions for food and packaging equipment and manufacturing sites, where food safety and reliability are required.

Click here or flash this QR code to know more.

Material Handling

Solutions for establishment of safe systems for continuous operation.

Click here or flash this QR code to know more.

Elevators

Solutions for complying with legislation and standards, and introducing new technologies required by the changes in our society.

Click here or flash this QR code to know more.

Transport and Logistics

Solutions for safe and efficient distribution systems to meet the demands of a developing global supply chain.

Special Vehicles

Solutions for high performance and safety suitable for a wide range of work operations that are required due to an increase in overseas production, imports, and exports.

Robotics

Solutions for safety measures in production lines for people and machines by utilizing collaborative robots.
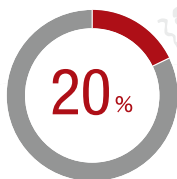
Click here or flash this QR code to know more.

Global Network
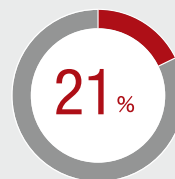
Americas

No. of employees : **226**

Sales ratio

20%

IDEC CORPORATION

EMEA
(Europe, Middle East, Africa)

No. of employees : **1100**

Sales ratio

21%

APEM SAS

Ratio of overseas sales
63%
(March 31, 2024)

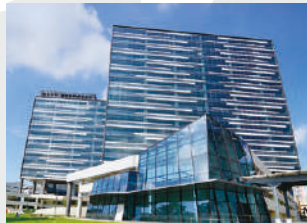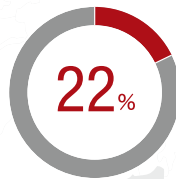Ratio of overseas employees
69%
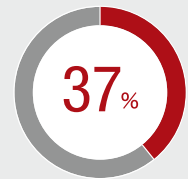
Asia Pacific

No. of employees : **790**

Sales ratio
22%

IDEC IZUMI ASIA PTE. LTD.

Japan

No. of employees : **971**

Sales ratio
37%

IDEC CORPORATION (Head Office)

Think Automation and beyond...

Asia Pacific

IDEC presence in Asia Pacific

Since 1976, IDEC has served the competitive, fast-growing Asia Pacific market by providing the very best products and services that satisfy the demanding market needs. Today we are proud that our products are used in a wide range of industry and application, from manufacturing sites to people's everyday lives.

Providing key products to the region's growth

Corporations from all over the world have entered the emerging countries in the Asia Pacific region, and continued growth is expected in broad industries. Following "IDEC's local production for local consumption" philosophy, IDEC established factory and sales subsidiary in Thailand in 2013, and also established sales subsidiary in India in 2020 for the purpose of expanding business in the region.

Combining products and education to meet growing safety needs

As the economy has grown in Asia Pacific, interest in workplace safety has increased and manufacturers are installing more and more safety devices in their manufacturing plants. IDEC continues to promote safety awareness in working environments to protect operators and machines from accidents, with our safety products such as emergency stop switches, enabling devices, controllers, interlock switches and laser scanners.

Asia Pacific Regional Headquarter in Singapore

In 2017, IDEC Izumi Asia Pte Ltd. was designated as Asia Pacific regional headquarter. By streamlining operations, we will serve our customers with our best products and services with enhanced efficiency and flexibility.

● IDEC THAILAND

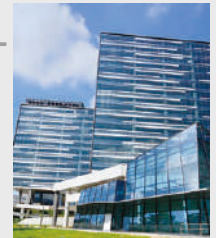● IDEC CONTROLS INDIA

● IDEC IZUMI ASIA

IDEC IZUMI ASIA PTE. LTD.

Address: Aperia 08 Kallang Avenue,
Tower 1, Unit #13-09
Singapore 339509
Tel: 65-6746-1155
Fax: 65-6844-5995
Email: info@sg.idec.com
Website: http://asia.idec.com

IDEC CONTROLS INDIA PRIVATE LIMITED

Address: Rathod Landmark, 25/3, Industrial Suburb,
1st Stage, Yashwantpur
Bengaluru, KA 560022 India
Tel: 91-80-29902925
Email: info_india@idec.com
Website: https://in.idec.com

IDEC ASIA (THAILAND) CO., LTD.

Address: 20th Fl., Sorachai Bldg., No.23/78,
Soi Sukhumvit 63, Sukhumvit Rd.,
Klongton-Nua, Wattana, Bangkok 10110
Tel: 66-2-392-9765
Fax: 66-2-392-9768
Email: sales@th.idec.com
Website: http://asia.idec.com

To find your nearest distributor email us at:

For Thailand	Info@th.idec.com
For India	Info_India@Idec.com
For other APAC countries	Info@sg.idec.com
For APEM branded products	Apem.apec@idec.com

Corporate Data

IDEC CORPORATION

Established:	March 26, 1947
Capital stock:	US$66,424,076
No. of employees:	3087 (on a consolidated basis as of March 31, 2024), excluding contract and temporary employees
Stock listing:	Prime Merket, Tokyo Stock Exchange
Head office:	2-6-64, Nishi-Miyahara, Yodogawa-ku, Osaka 532-0004 Japan Tel: +81-6-6398-2500 (main number)
Tokyo Sales Branch:	1-16-1, Kaigan, Minato-ku, Tokyo 105-0022 Japan Tel: +81-3-6625-5180 (main number)

HMI

Switches

Flush Silhouette Switches

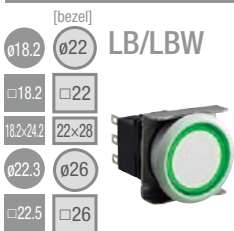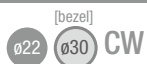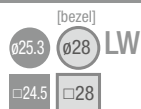**LB/LBW** ø18.2 [bezel] ø22
□18.2 □22
18.2×24.2 22×28
ø22.3 ø26
□22.5 □26

Photo: LBW

- LB series: Slim 2 mm-thick bezels.
- LBW series: Projects only 2 mm from the panel. Smart appearance with large surface.

CW ø22 [bezel] ø30

- Flush bezel projecting only 2.5 mm from panel front.
- Short, 39.9 mm depth behind the panel.

LW ø25.3 [bezel] ø28
□24.5 □28

- Create stylish panels with flush bezels projecting only 2.0 mm from panel front.

Switches/Pilot Lights

LB ø16

- Only 27.9 mm panel depth. Removable contact blocks ideal for single board mounting.

A6 ø16

- Light duty with 9 mm panel depth (body length: 22 mm).

Switches/Pilot Lights

YW ø22

- Compact, lightweight, 10mm thick contact blocks with removable operator.

HW ø22

- Removable contact block model.
- Wide variety of types available.

TW ø22

- Heavy-duty ø22 switches that can withstand harsh environment.

TWS ø25

- Highly reliable, heavy-duty ø25 switches suitable for industrial use.

TWN/TWND ø30

Photo: TWND

- IP20 contact block with integrated terminal cover and captive spring-up terminals.

8

Enable industrial tablets to provide operation safety

Safety Commander™ `HT3P/HT4P`

- Improves safety and operability.
- A tablet can be readily equipped with a safety device.
- USB/LAN converter with built-in USB power deliver. (HT4P)
- Mechanical switches can be installed. (HT4P)
- Newly available with an emergency stop switch (button color: white, illuminated color: red) compliant with ISO 13850:2015

Inactive (Non-illuminated) | Active (Illuminated)
Short Body E-stop: XA1E-LV3SG02Q4WR

Panel mount RFID reader

ø22 Smart RFID Reader `KW2D`

- IP65/67F rated, water-, dust-, and oil-proof ratings.
- Equipped with an LED easily visible from the side and an auxiliary buzzer, the RFID reader enables visible and audible feedback on operation status.
- With a verification function inside, the verified result can be communicated to the host device as data.
- An Ethernet port enhances connection compatibility with host devices.

For indoor and outdoor use. Suitable for hygiene protection.

Touchless Switches `CW1H/CW4H`

- Degree of protection: IP65/67 suitable for outdoor use UL Type 4X (Outdoor) approved.
- Output and standby status feedback by LED illumination in two colors that can be externally controlled.
- Standard model (diffuse-reflective): Near-infrared reflectance. Hand detection distance adjustable from approx. 70 to 270mm. (*1)
- Short range detection model (convergent reflective): Detects objects only within a specific distance range Sensing range approx. 5 to 30mm.

*1) Sensing object: Human hand.

ø22 switches & pilot lights with push-in technology

ø22 Push-in Switches & Pilot Lights

- Simple wiring for greater work efficiency.
- Since the ferrule is held in place by a spring load, the wiring remains taut and vibration resistance is improved.
- IP20 Finger-safe protection enables wiring to be performed without direct contact between screwdriver and conductive part.

`HW` `CW` S3 CONNECT

Pilot Lights/Buzzers/Control Boxes/Operator Interface

Switches/Pilot Lights
MA/MC

- Square, rectangular, and round miniature control units.

Miniature Pilot Lights
ø16 **AP**

ø22 **AP22**

- ø8/10/12/16: space-saving miniature style.
- ø22: Outstanding visibility even in sunlight.

Display Lights
SLC

- Compact and highly bright combination display lights.
- Fingersafe spring-up terminals.

Surface Mount Indicators
LH

- Innovative indicators with IP67 protection.
- Directly mountable on equipment and aluminum frames.

Illuminated Buzzer
ø22 **HW1Z**

- Waterproof combination buzzer and pilot light.
- Meets the requirement of the revised elevator standard EN81-20/50.

Control Boxes
FB/YB

AG/KG

- IP65 lightweight plastic enclosures for installing ø22 switches.
- Available with HW series and XW series (FB).

- A wide selection to choose from: AG series: IP65/splash-proof, aluminum alloy die-cast.
- KG series: IP40/enclosed

Operator Interface
HG*G

15 inch | 12.1 inch | 10.4 inch | 8.4 inch | 5.7 inch | 4.3 inch

- Compact housing with a versatile interface.
- High performance operator interface with multimedia functions.

HG2J/HG1J

7.0 inch wide | 4.3 inch wide

- High environmental durability and compatibility.
- Projected capacitive (PCAP) touchscreen.

Operator Interface Hand Held Model
HG1P

- Lightweight and robust design.
- Easily readable and functional.
- Designed for optimal usability.

9

Industrial Components

Products inside Panel

Relays

RC

- High capacity SPDT, 16A and DPDT, 8A.
- Width 12.8mm × height 16.5mm Compact low-profile relays.

RJ

- Compact and rugged power relays. Large contact ratings.

RN

- Universal relays with up to 5A (DPDT) contacts.
- An LED indicator enables high visibility of coil status.

RU

- Full featured, environment-friendly universal miniature relays.
- No lead ore cadmium used.

RF2

- 2-pole force guided relay.
- Two terminal styles - socket mounting and PC board mounting.

Sockets

RV8H

- Ultra-slim, 6 mm-wide interface relays suitable for high density mounting.
- Screw and spring clamp terminals.

SJ

- Slim and space-saving sockets with marking plate for RJ and RF2.

SN

- Relay sockets for RN series.
- 2-pole and 4-pole sockets available.

DF

- Finger-safe socket
- Same marking plates as the RU series relays.
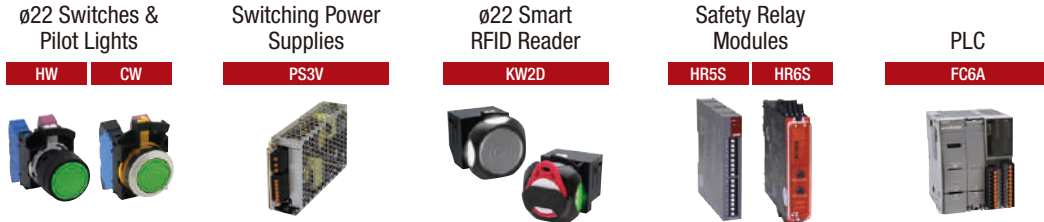
Circuit Protectors

NH/NR

- Wide range of applications from office automation and consumer use to factory automation.

Push-in terminal products. A new trend for wiring devices

Push-in style terminals for IDEC products

S^3 CONNECT

By expanding our lineup of push-in style products globally, we are bringing innovation to production sites by enhancing convenience and safety, and enabling streamlining of control equipment.

ø22 Switches & Pilot Lights	Switching Power Supplies	ø22 Smart RFID Reader	Safety Relay Modules	PLC
HW CW	PS3V	KW2D	HR5S HR6S	FC6A

For lighting machine tools

LED lighting   LF3D/1D

IDEC's unique optical technology enables the light to shine evenly on the surface, suppressing multiple shadows and allowing the operator to see scratches and unevenness on the workpiece. LF3D lighting makes it possible to check whether chatter marks have been generated or not easily, at a glance.
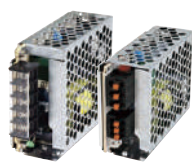

Products inside Panel/Equipment

Switching Power Supplies		Timer	
PS5R-V	**PS3V**	**GT3**	**GE1A**

- **PS5R-V**
  - Space-saving DIN-rail switching power supplies.
  - Can be installed in six mounting directions.

- **PS3V**
  - Highly efficient switching power supply ideal for downsizing of equipment.

- **GT3**
  - Solid-state CMOS circuitry ensures high accuracy.
  - Various operation modes available, such as off delay and star-delta.

- **GE1A**
  - Two different time ranges to cover a wide time range.
  - Large clear knob for easy time range setting.

Terminal Blocks		LED Illumination Units		
BNH-W	**BTBH-H**	**LF2B**	**LF1B-N**	**LF3D/1D**

- **BNH-W**
  - UL, CSA, TÜV approved.
  - Spring-up screw, self-lifting, and touch-down types available.

- **BTBH-H**
  - The terminal blocks can easily assembled without using tools.

- **LF2B**
  - Universal AC input for worldwide applications.
  - Thin and slim profiles allow for installation in wide applications.
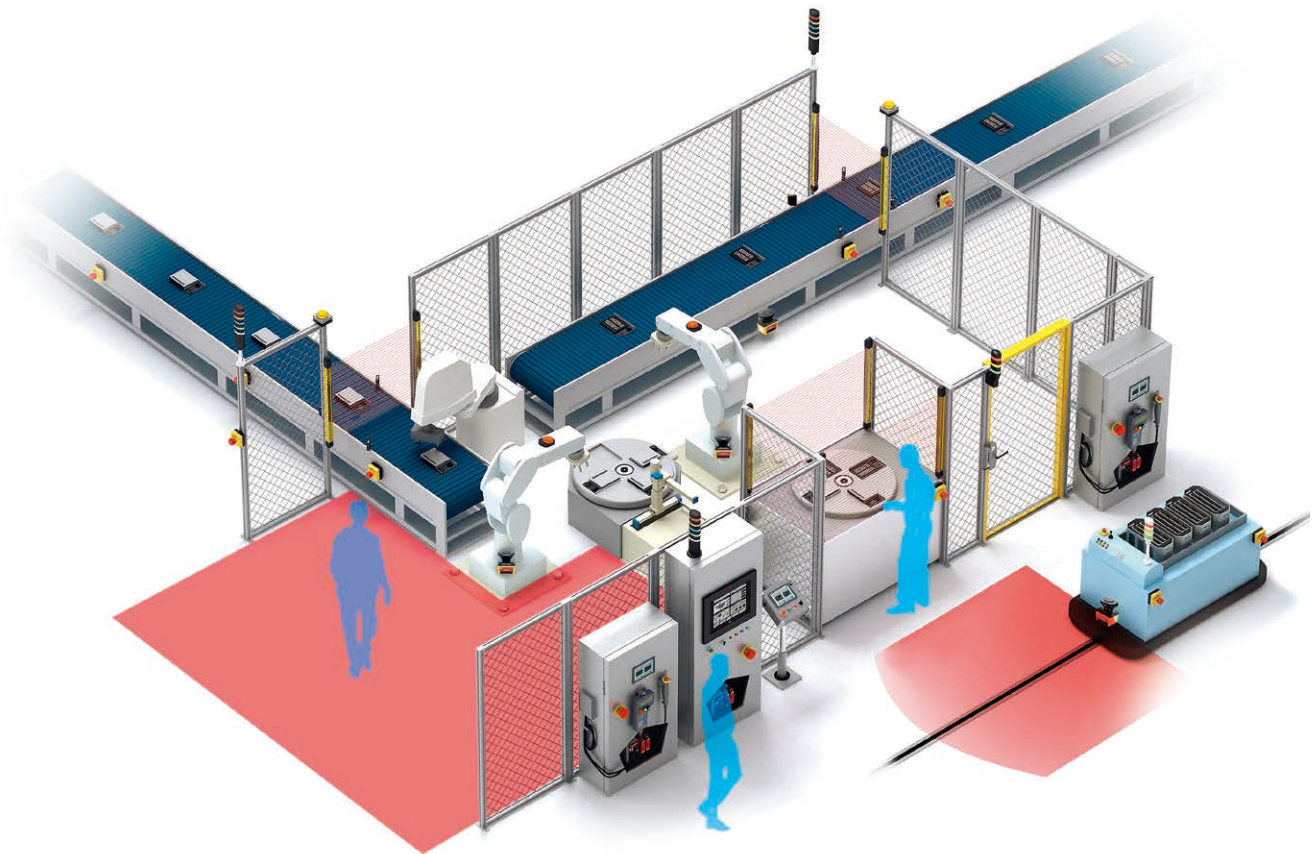
- **LF1B-N**
  - Thin and slim profiles with IP65 protection (waterproof, dust-proof).
  - Ideal for applications subject to water and in space-limited areas.

- **LF3D/1D**
  - Excellent optical performance and robust construction.
  - Suitable for use in machine tools.

Safety

Emergency Stop Switches/Interlock Switches

Emergency Stop Switches

ø16 XA ø22 XW | **ø16 X6** | **ø16 XA** | **ø22 XW** | **ø30 XN**

Short Body/ Unibody/ Illuminated type

- Short Body E-stop complies with ISO 13850 for indicating active/inactive states.
- Third-generation E-stop switch with Reverse Energy Structure.
- Safety lock mechanism and direct opening action.
- Removable contact block and unibody models.
- Innovative Safe Break Action installed.
- Mechanical indicator and SEMI Emergency Off (EMO) available.
- Padlockable, flush bezel, 60mm jumbo mushroom, illuminated, and LED push-on are available.

Emergency Stop Assist System

XW1E-BS4B12PR

- Pushbutton switch for E-stop equipped with an operation assist function.

Control Boxes

FB/YB

- IP65 lightweight, plastic enclosures for installing E-stop switches.

Enabling Switches

When faced with unexpected dangerous situation, an operator either releases or squeezes the device held in hand. By holding a device equipped with 3-position enabling switches, robot/machine operation is disabled, thus ensuring safety of operators.

HE6B | **HE2G**

- 3-position enabling switches ideal for installing in enabling devices.
- Small, lightweight grip style enabling switches with 3-position enabling switch embedded.

Interlock Switches

HS1T | **HS5L** | **HS5D** | **HS6E/6B**

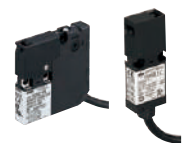- Slim interlock switches with 5000N locking force.
- Head rotating structure.
- Interlock switch with solenoid.
- 2-contact and 4-contact models available.
- Head removable detection function provides higher level of safety.
- HS6E: Slim interlock switch with solenoid.
- HS6B: Compact interlock switch with three poles of contacts.

Enhanced safety solutions

Wireless operation of emergency stop switches from remote locations

XW1E-BS4B12PR   HX1T-AB1   HX1R-AB1

Emergency Stop Assist System

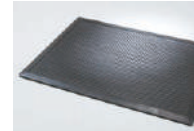### Customizable pressure-sensitive switches for various scenes
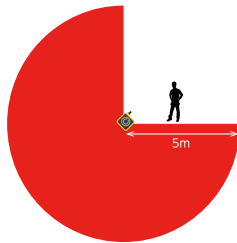
Tape Switch   Edge Switch

Bumper Switch   Mat Switch

Distance 5m, wide sensing angle 270º

Safety Laser Scanner   SE2L

By allowing only objects, not humans, enter dangerous areas, SE2L safety laser scanners ensure the safety of operators who are left in hazardous areas or those approaching the moving machines.

5m

Distance 5 m
Sensing angle 270º
A maximum of 32 area patterns

Safety Products

Safety Edge Switches	Safety Controllers	Safety Relay Modules	Force-guided Relays	
E30BK1	**FS1B**	**HR5S/HR6S**	**RF2**	**RF1**
• Low profile switches ideal for installation on automatic doors.	• Programless safety control. • Equipped with 24 patterns of safety control logics compliant with international standards.	• An extensive product lineup of safety relay modules covers all safety requirements from categories 2 to 4.	• 2-pole force guided relay • Two terminal styles: socket mounting and PC board mounting.	• Compact and EN compliant force guided relays. • Built-in LED indicator model and counter-electromotive force diode model available.

Actuators		Non-contact Interlock Switches		Light Towers	Tablet Mount Safety Device
Door Handle	**Slide Handle**	**HS7A**	**HS3A**	**LD6A**	**HT3P/HT4P** Safety Commander™
• Locks rattling doors smoothly and securely.	• Shock-resistant metal slide handle actuators • For HS5 and HS1T interlock switches.	• Compact size and easy positioning.	• RFID non-contact interlock switch • Category 4 and PLe compliant.	• Stylish oval shape with striped design for clear visibility.	• Enable industrial tablets to provide operation safety. • Vertical & horizontal orientation, thanks to a rotating holder. • *) The tablet is not included with this product.

13

Automation & Sensing

PLC/Controller/Operator Interface

PLC/Controller

FC6A Plus/All-in-One

- FC6A Plus can control large machines or entire small-scale manufacturing facilities.
- FC6A All-in-One has high performance and easy programming features.

FT2J/FT1J

`7.0 inch wide` `4.3 inch wide`

- Projected capacitive touch panel (PCAP).
- Integrated PLC controller and expandable I/O.
- Dual CPU Configuration.

FT1A Pro/Lite

- 10A relay outputs, Ethernet, SD memory card, USB embedded.
- Independent dual-axis control and multistage control available.

FT1A Touch

`3.8 inch`

- Built-in LCD enables control and display with high visibility.

IDEC SmartRelay

FL1F

- Equipped with convenience and high functionality.
- Multiple power supply variations.

Remote I/O Coupler Module

SX8R

- Paired with FC6A I/O modules, the SX8R facilitates the seamless creation of a remote I/O system.

Operator Interface

HG*G-V

`15 inch` `12.1 inch` `10.4 inch` `8.4 inch`

- Lightweight with slim bezel.
- Large size ideal for handling large amount of information for the IoT era.

HG2G/HG1G

`5.7 inch` `4.3 inch`

- Bright and true-to-life display.
- Quick 1.5-sec startup.
- Wide temperature range.
- Resistant to powerful water jets or temporary submersion in water.

HG2J/HG1J

`7.0 inch wide` `4.3 inch wide`

- High environmental durability and compatibility.
- Innovative glass top.
- Projected capacitive (PCAP) touchscreen.

Operator Interface Hand Held Model

HG1P

- Lightweight and robust design for optimal usability.
- Easily readable and functional.
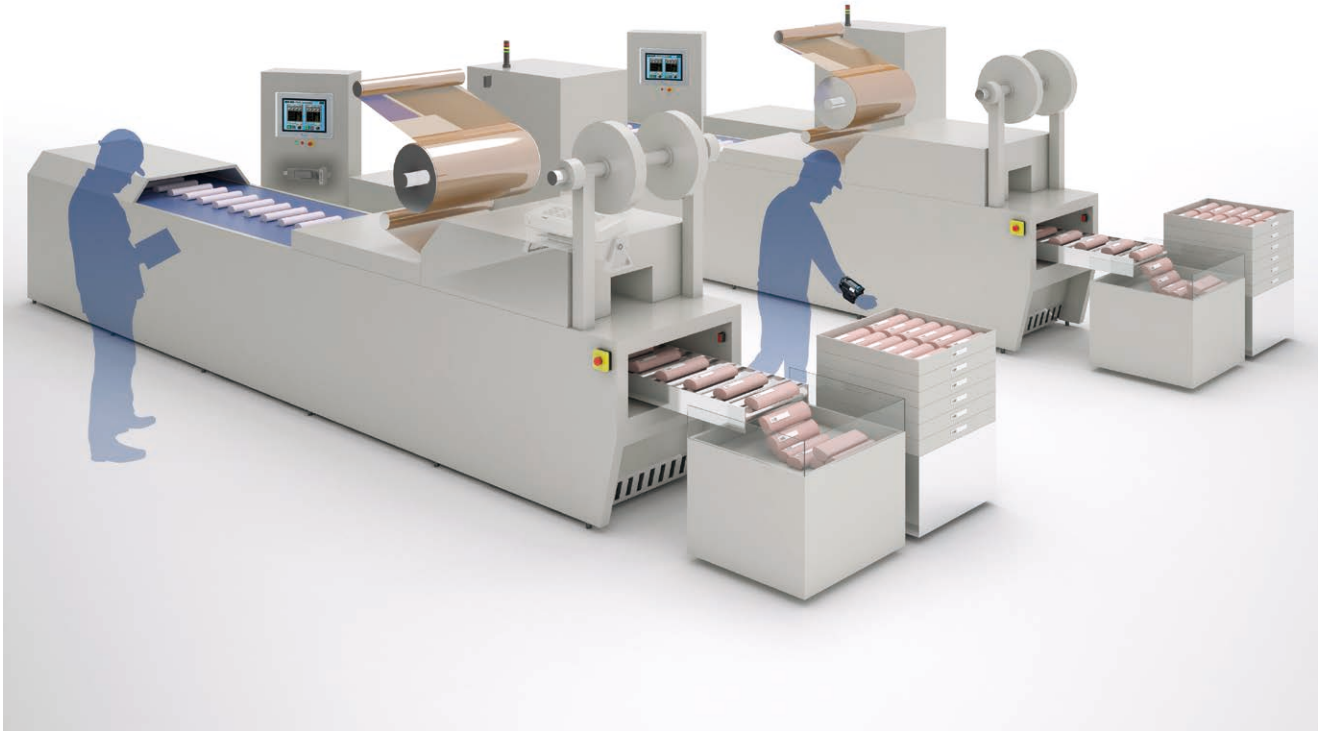
Tablet Mount Safety Device

HT3P/HT4P
Safety Commander™

- Enable industrial tablets to provide operation safety.
- Vertical & horizontal orientation, thanks to a rotating holder.

*) The tablet is not included with this product.

Ethernet Switches

SX5E

- Rugged design.
- Suitable for a wide range of applications.
- Unmanaged Ethernet switches equipped with various features.

PLC+HMI

Smart AXIS FT2J

The All-in-One Solution for Seamless Automation.
HMI and controller integrated in a compact structure.

- Compact 7" PLC+HMI
- 22 I/O (14 in/8 out) Points
- -20 to +55°C Operating Temp.
- 800 x 400 pixels Display Resolution
- PCAP Glass Top HMI Design
- Embedded RJ45 Ethernet Port
- Built-in Analog Inputs and Outputs
- PID and PWM Controls
- Remote Access, FTP, Email, Mobile App and Custom Web Page

PLC for IoT era

MICRO Smart FC6A Plus

The MicroSmart FC6A Plus expands the limits of productivity, allowing for controlling not only large-size machines, but also entire small-size production lines.

- Up to 2,060 I/O (incl. a maximum of 511 analog I/O)
- Extremely fast basic instruction execution of 21 ns
- User program size: 800 KB (100,000 steps)
- BACnet/IP protocol
- Handles large programs such as positioning, PID, flow totalization and recipes.

Photoelectric Switches/Code Reader/RFID Reader

Photoelectric Switches				Code Reader
SA2E	**SA1E-L**	**SA1E-X**	**SA1U**	**WB1F**

SA2E
- Miniature high-performance photoelectric sensors.
- Enhanced detection accuracy and response time.

SA1E-L
- Class 1 laser with fastest response in its class. Reliably detects fast-moving objects.

SA1E-X
- Coaxial optical structure and narrow beam ensure stable detection; unaffected by constriction, inclination or shaking of a bottle.

SA1U
- Universal voltage types operate on 24-240V AC and 12-240V DC. DC power types operate on 12-24V DC.
- Four sensing methods (through-beam, polarized retroreflective, diffuse-reflective, and background suppression).

WB1F
- 1D CCD scanner with convenient modes, such as test mode.
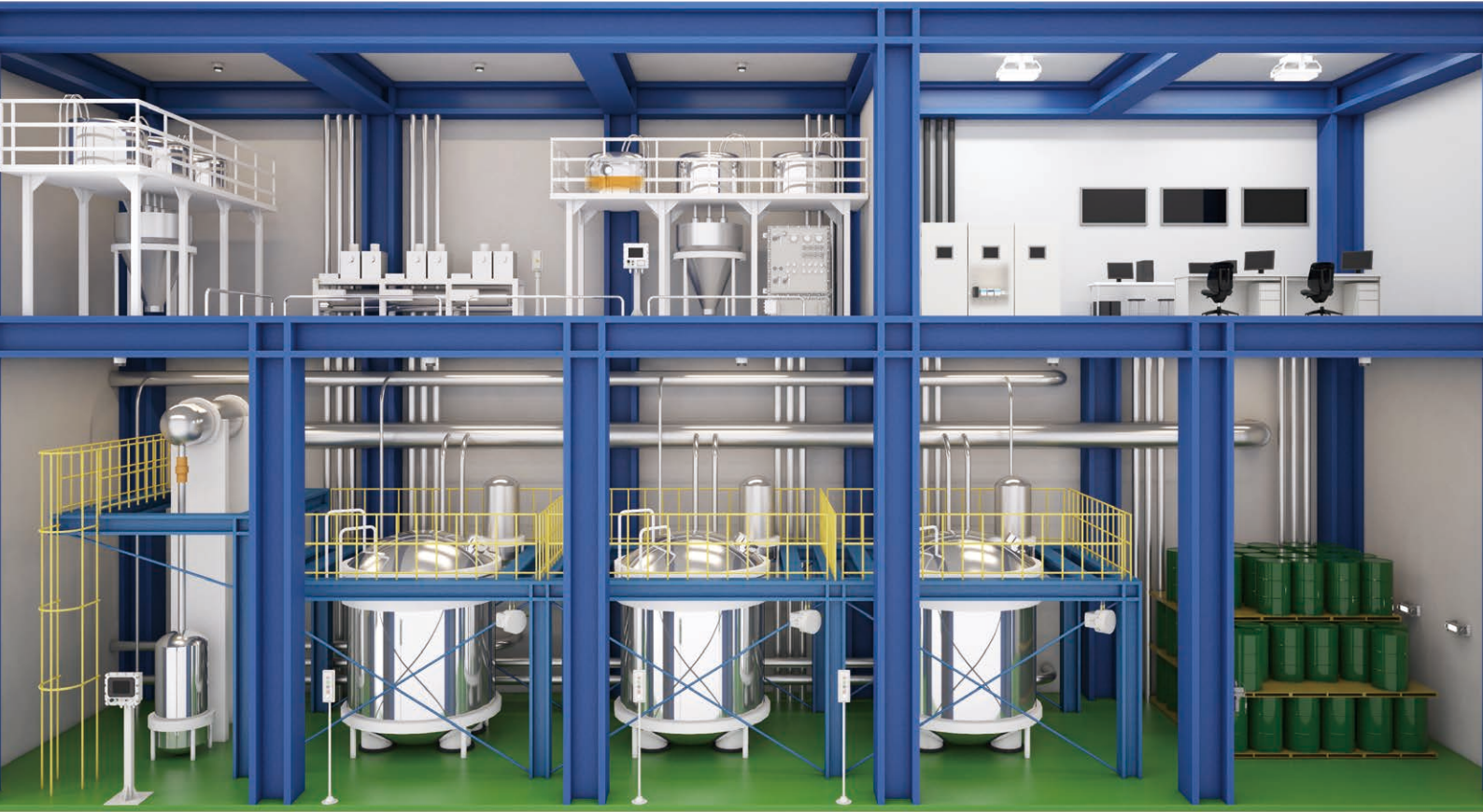- Compact and can be installed on small equipment.

RFID Reader

KW2D
- IP65/67F rated, water-, dust-, and oil-proof ratings.
- Equipped with an LED easily visible from the side and an auxiliary buzzer, the RFID reader enables visible and audible feedback on operation status.
- An Ethernet port enhances connection compatibility with host devices.

Explosion Protection

Explosion-proof Products

Relay Barriers

EB3L

- 126 types of pilot lights and buzzers can be connected for use in any explosive gas and Zone 0 areas.
- Illuminated pushbuttons and illuminated selector switches can be connected by combining with the EB3C.

EB3P

- Pilot Lights for EB3L lamp barriers.

EB3N

- Explosion protection: [Exia] II C.
- Ideal for establishing a safety system in an explosive atmosphere.
- ISO 13849-1 (PLe, Cat4) approved.

EB3C

- Input contacts can be used in any explosive gas and Zone 0 areas.

Sensor Barriers

EB3S

- Sensor barriers that can be used in Zone 0 explosive areas.

Sensors

SA2E-EX

Available soon

- Intrinsically safe explosion-proof photoelectric sensors that can be connected to EB3S sensor barriers.

Flameproof LED lighting

Hazardous location lighting for use in areas where explosive gases and combustible dusts exist.

Ex d IIB T4 Gb / Ex tb IIIC T130° Db

EF1A

Can be used in hazardous areas of Zone 1 and 2. Heavy-duty aluminium housing with reinforced glass. Narrow-angle and wide-angle beam models available, with clear or translucent lenses.

Ideal for use in Europe and South-east Asia

Flameproof & Increased Safety Control Boxes

EC2B

ATEX directive compliant control boxes. Corrosion-resistant stainless steel enclosure. Applicable in areas where explosive gases exist including hydrogen and acetylene.

Explosion-proof Products

Flameproof LED	Control Boxes		Control Units
EF1A	**EC2B**	**EC1A**	**EU2B**
• Can be used in hazardous area of Zone 1 and 2, where hydrogen or acetylene gas is present.	• Complies with IECEx, ATEX, Ex-CCC, UL/c-UL. • Ideal for use in factories.	• Lightweight flameproof control box in aluminum alloy enclosure.	• Pilot lights, pushbuttons, selector switches, and emergency switches for flameproof and increased safety control boxes.

Your Partner & Expert In HMI Products

Providing safety and security to Human Machine Interface

In March 2022, IDEC celebrated our 75th anniversary since foundation. And to coincide with the event, we welcomed APEM Group, a French manufacturer of HMI products, to IDEC Group. APEM has a history of 70 years in industrial switches, joysticks, keyboards and other HMI products for markets such as construction, agriculture, specialty vehicles, aerospace, and defense. By leveraging respective product offerings and geographical presence, the IDEC Group will further increase its dynamic strengths, diversity, flexibility, efficiency and all essential aspects required to better serve our customers around the world.

A WORLD OF SWITCHING CAPABILITIES

APEM Products

Markets

AGRICULTURAL MACHINERY

MATERIAL HANDLING

DEFENSE

INDUSTRIAL AUTOMATION

SECURITY

OFF-ROAD VEHICLES

For futher details please click here or flash this QR code.

APEM Products Line Up

Panel Switches	Joysticks	PCB Switches	LED Indicators	Panel Solutions

- Push Buttons
- Toggle Switches
- Rocker Switches
- Switch Guards
- Sealing Boots
- Connectors

- Fingertip Hall Effect
- Thumb Controls
- USB Desktop
- Fingertip Resistive
- Fingertip Switch
- Handgrip Hall Effect
- Fingertip Single Axis
- Trackballs

- MEC Switches
- Basic Tact Switches
- DIP & Rotary Switches
- Toggle Switches
- Push Buttons

- 6 to 25mm Cut Out
- IP67 Sealed
- Standard, Hyper, Super Bright LED
- Single, Bicolor, Tricolor or RGB Voltage Range 2V DC to 220V AC

- Metal Keypads
- Piezo Keypads
- CAN BUS Keypads
- Military Custom Keypads

Solutions by Industry

Automotive

In the production lines of automotive and automotive parts industry, productivity and safety must be achieved while meeting the user's various needs. IDEC has the products and solutions that best match each requirement.

- Minimize maintenance time and labor
- Improve accuracy of visual check with LED illumination
- Improve the performance of door interlock switches
- Achieve traceability
- Provide reliable explosion protection to hydrogen stations
- Improve visibility and reduce maintenance time and labor

Machine Tools

Miniaturization of machines, compliance to safety standards, and improved maintainability are required in machine tool industry.
IDEC helps you solve your issues with our wide range of products and solutions.

- Reduce the size of machine tools
- Excellent design
- Reduce cost and labor needed for replacing relays
- Optimize LED lighting to illuminate work objects
- Prevent momentary stops of machine
- Check the surface of work objects with even LED illumination
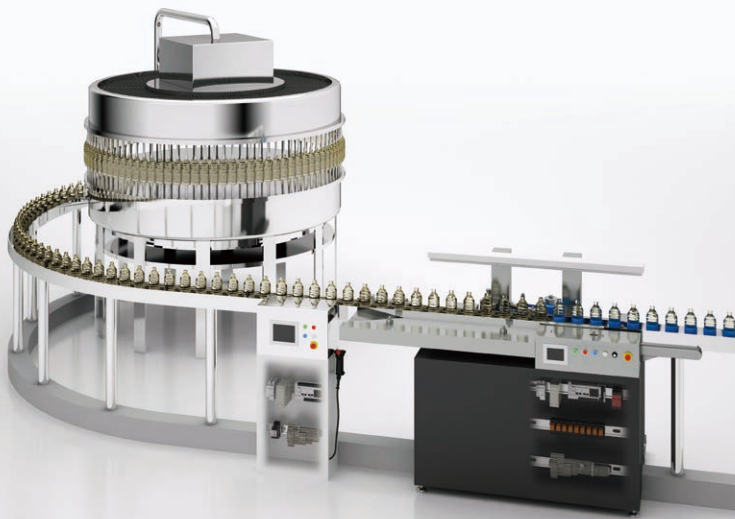
Electronics and Semiconductor

Semiconductor industry requires smaller footprint and higher throughput. IDEC products help reduce labor, wiring, installation space, and maintenance cost/labor with our expertise and experience.

- Add flexible design to semiconductor manufacturing machines
- Upgrade traceability performance while reducing cost
- Replace switches quickly in order to minimize downtime
- Reduce downtime for lighting replacement by 80%
- Reduce the size of semiconductor manufacturing equipment with the thinnest door interlock switch in its class

Food and Packaging

As safety and quality of foods have attracted more attention, there is a change in the trend/needs for food processing machines. Our products developed with cutting-edge technology solves your issues in food processing lines.

- Eliminate external controllers
- Create the new standard of compact operator interface
- Reduce the labor required to install products in cold environment
- Replace multiple control products with an HMI-integrated controller
- Improve safety and operability of control boxes

Material Handling

Material handling is all about automatizing process lines and making them more efficient. Now the new values are required—they must move seamlessly without unwanted stops, and operators must be able to oversee the entire operation accurately in real-time. Backed by our latest technology, IDEC has the solutions to satisfy your needs.

- Eliminate the risk of possible injury in the ceilings
- Ensure safety of low-floor automated guided vehicle
- Make up for the flaws of palletizing robots
- Reduce the risk of possible injury during maintenance work
- Maintain production efficiency and eliminate the risk of accidents

Elevators

Elevators, the vehicle often employed for public use, need to keep up with social trends and thus comply with standards/law, accordingly requiring new technologies. IDEC has products and solutions to help you comply with new elevator standards.

- Enhance elevator safety to avoid the potential business risk
- Prevent operational error and physical accidents at the time of inspection
- Employ remote monitoring to eliminate unnecessary maintenance work
- Provide simple solutions to prevent collision between the car and human
- Eliminate accidents caused by hoist malfunction

Solutions by Industry

Transportation and Logistics

The more logistics is globalized, the more efficient and safer system is required. Our cutting-edge technology gives you solutions that provide both safety and productivity.
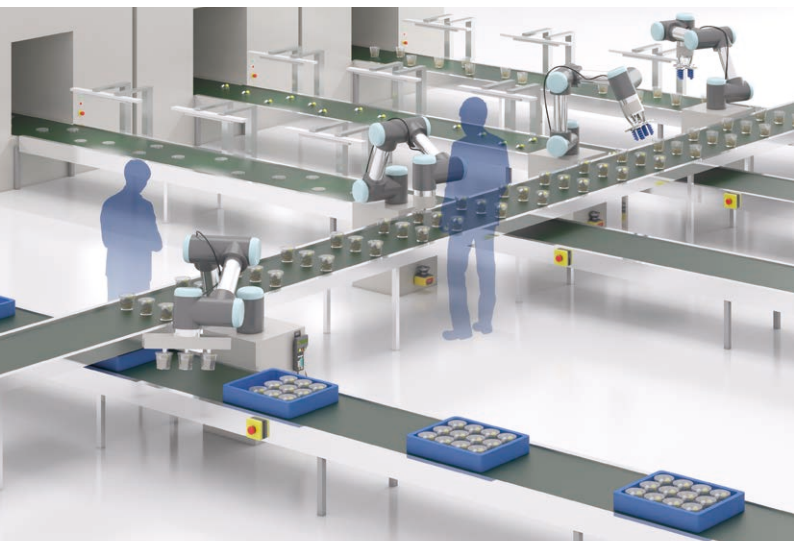
- Improve productivity with automated logistics system
- Establish collaborative safety where human and robots work adjacently
- Improve operability with ergonomics-based design

Special Vehicles

Vehicles for special purposes need specialized operability and safety to satisfy each needs. With APEM products joining our family of products, IDEC provides you with more variety of HMI products to suit specific applications.

- Improve operability with ergonomics-based design
- Design user-friendly interfaces that allow anyone to operate safely
- Meet strict environmental and durability requirements

Robotics

Production lines are increasingly employing collaborative robots to establish working environment where human and machines work in a collaborative manner. With products compliant with safety standards and collaborative safety solution, IDEC makes the ideal collaborative environment come true.

- Ensure safety of collaborative robots
- Solve labor shortage with collaborative safety robot system
- Establish new collaborative robot interface

Strategy

New Businesses

Create new value. Help solve issues.

Agriculture

Automate agriculture

With experience and technologies in control, fine bubble, and manufacturing, we are a reliable provider of total solutions to the agriculture of next generation. IDEC encourages more entities to enter the new market by proving that agriculture can be profitable.

▌Next-generation agricultural plant

We offer a comprehensive support service of the next-generation, solar-combined agriculture plant from designing, construction, cultivation advice, to marketing. By automatically controlling plant growth factors such as the temperature in greenhouses, amount of light, CO_2 concentration, and watering amount, we contribute to save energy and increase production. Our goal is to achieve profitable agriculture, by maintaining stabilized yield amount and increasing sales with fine bubble technology.

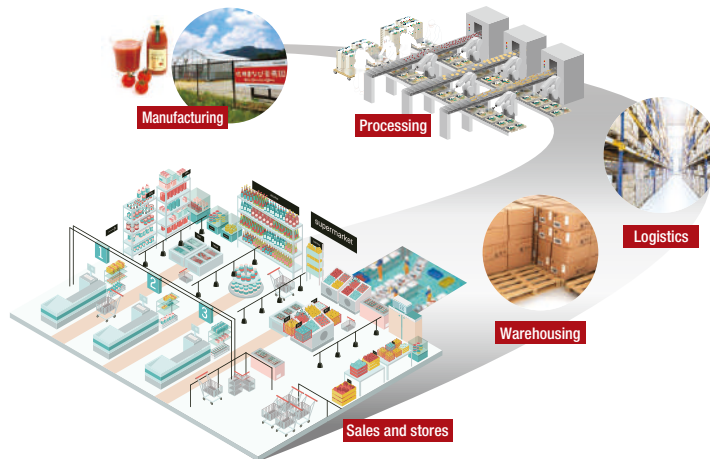High Profitability

Stable Production

Energy Saving

Eco Solutions

Developing store solutions as an ESG-compliant partner.

Through a mutual network of applying the multiple products and solutions offered by our various group companies, centered on IDEC SYSTEMS & CONTROLS CORPORATION, we are able to offer "Store Solutions" that encompass the overall supply chain from manufacturing, to logistics, and to storefronts.

▌Engineering

Manufacturing
Processing
Logistics
Warehousing
Sales and stores

Energy Utilization

Automation

Collaborative robots

Collaborative Safety Robot Systems

Lead human-robot collaborative safety

With knowledge and experience built up over the years, IDEC also as a reliable system integrator assists you create a collaborative safety environment. We make sure that neither productivity nor safety is uncompromised.

▌Collaborative safety robot systems

Safety 2.0
Collaborative Safety
ANSHIN Safety with ANSHIN
SAFETY1.0 Safety by Isolation
SAFETY0.0 Safety by Human Attention

Robot Control Technology

Peripherals Technology

Safety Technology

23