





















# PRODUCT GUIDE



FOR MORE THAN 75 YEARS, IDEC HAS DESIGNED AND MANUFACTURED HIGH QUALITY PRODUCTS. SINCE 1976, IDEC HAS SERVED THE COMPETITIVE EUROPEAN MARKET BY PROVIDING THE VERY BEST PRODUCTS AND SERVICES THAT SATISFY THE MARKET NEEDS, THAT NEVER CEASE CHANGING AND EVOLVING.

#### EUROPEAN NETWORK FRANCE

UNITED KINGDOM
GERMANY
BENELUX
ITALY
SWEDEN

Together, IDEC and its well established European subsidiary APEM are now one of the world's largest manufacturers of human machine interface (HMI) components, panels and systems.

With more than €565 million in total sales, the combined entity has a broad portfolio of HMI, Safety and Automation products designed for a variety of Industrial applications, and access to markets across Europe, North America and Asia.





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OUR EXPERTISE, OUR CAPABILITIES

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Material handling
Robotics
Food and packaging
Automatic warehouse

TECHNOLOGIES & INNOVATIONS

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Human machine interface solutions
Flush switches

Industrial & harsh environment switches
Miniature & compact switches

#### Safety solutions

Emergency stop switches Enabling switches Safety products Sensing products

#### Panel solutions

LED lighting & signalling DIN-rail & panel products

**Automation solutions**Automation products



# **OUR EXPERTISE, OUR CAPABILITIES**



# OFFERING THE BEST SOLUTION FOR EACH CUSTOMER THROUGH A WIDE VARIETY OF TECHNOLOGIES.

#### **RT** (ROBOTICS TECHNOLOGY)

Having developed the world's first Robot Control Cell Production System, we continue to be the driving force of the cutting-edge Robotics Technology.

#### **AT** (AUTOMATION TECHNOLOGY)

Automation Technology, including mold production, precision parts processing, precision tool, programming, robot application, automatic assembly, control equipment, and control safety technology, plays the key role of manufacturing.

All of these various technologies are vertically integrated, and our products are manufactured in-house from parts processing to finishing.

#### **ET** (ENGINEERING TECHNOLOGY)

In addition to the research and development of control equipment, we combine and systemize laser marking, image processing, and RFID technologies to achieve the traceability system, and drive the development of advanced Engineering Technology.

#### **ST** (SAFETY TECHNOLOGY)

The safety concept at IDEC is shifting from "zero accident" to the globally-recognized "zero hazard." IDEC has always led the industry in safety technology development, and with our goal to "Reduce industrial accidents" as our CSR, we comply with the international standards of Machine Safety, Functional Safety, and Explosion Proof Safety and stay at the forefront in the development of safety technologies.

#### **MT** (MECHANICAL TECHNOLOGY)

Through the development of switches, relays, circuit protectors and other high quality, highly reliable control equipment, we have accumulated precision and electromagnetic mechanism technologies. For further advancing such core competance technologies, we strive to be fully creative at Mechanical Technology development.

#### **PT** (PHOTONICS TECHNOLOGY)

For the creation of new applications of cutting-edge photonics device technologies such as LED, laser, opical fiber, quantum dot, and new optical element, IDEC has set up a satellite office in the Photonics Advanced Research Center (PARC) at Osaka University as a member of business-academia collaboration project. A PARC office is also located in IDEC, to foster close cooperation and to promote the advancement of Photonics Technology.

#### **IT** (IDENTIFICATION TECHNOLOGY)

Identification Technology to detect objects without failure is powerfully promoted at IDEC. Sensing technologies with semiconductor laser for water detection and plastic material sorting, and automatic recognition technology such as RFID and image recognition, are developed.

#### **CT** (CONTROL TECHNOLOGY)

As a manufacturer of control equipment with accumulated knowledge of various control technologies such as computer, software, and network communication, we will further make effort to develop the most advanced Control Technology.





















# **SOLUTIONS BY INDUSTRY**

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



#### MACHINE TOOLS

Solutions for issues relating to compliance with safety standards, compact designs, and improvement of maintenance effectiveness.

#### MATERIAL HANDLING

To create a safe system for continuous operation.

#### ROBOTICS

For the safe interface of human and robots.

#### **AUTOMOTIVE**

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

#### FOOD AND PACKAGING

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

#### **AUTOMATIC** WAREHOUSE

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

#### ELECTRONICS AND SEMICONDUCTOR

For minimising manufacturing footprint and maximising throughput.

#### **ELEVATORS**

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

#### SPECIAL VEHICLES

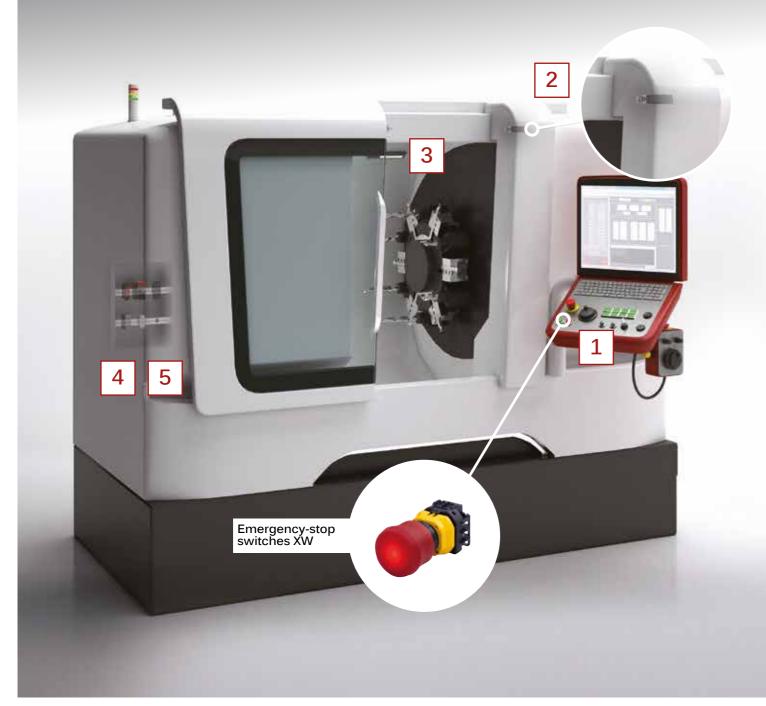
For high performance and enhanced robustness, ensuring continuous operation in various environments delivering enhanced productivity.

### **SOLUTIONS BY INDUSTRY MACHINE TOOLS**

In addition to compliance with safety standards, machine tool manufacturers have been seeking to downsize their products and to improve maintenance efficiency in recent years.

IDEC satisfies your wide variety of needs with our various products and the best suited solutions.





Increase added value with sophisticated interface design







Flush silhouette switches LB/LBW

Single-board panels

Increase your efficiency with and lower product wastage with robust safety interlocks





Plastic Slide Handle Actuator for HS5 Series



Interlock switches HS5L / HS1T

3

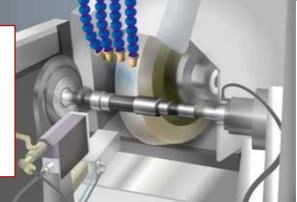
Use flat LEDs to make chatter surface visible in early stage





LED units LF1D & LF3D

Improve machine up time with State of the Art power supplies





Power supplies PS5R-V

5

Compact components contribute to the downsizing of machine tools





Interface relays RV8H

#### **SOLUTIONS BY INDUSTRY**

## MATERIAL HANDLING

Reduce accident

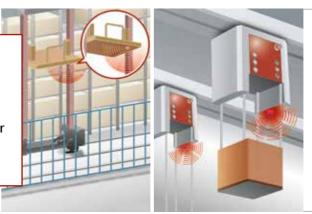
risks while maintaining production efficiency

Material handling technology that streamlines and automates the distribution of goods plays a major role in corporate logistics and productivity improvement. IDEC, with our various products developed with cutting-edge technology, helps you solve your material handing problems.



Reduce the risk of injury from overhead transfer

systems





Illuminated buzzers HW1Z

3

Provide product to build low profile AGVs and ensure safety at production sites







dge switches ez-Wheel® Safety & E22BK1 Wheel Drive SWD 125



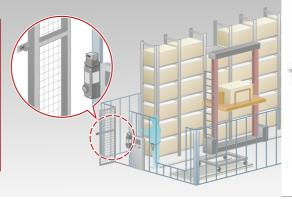
Operator Interfaces HG2J



Safety laser scanners SE2L

4

Reduce risk by controlling the hazard at the point of entry





Key interlock switches HS5E-K

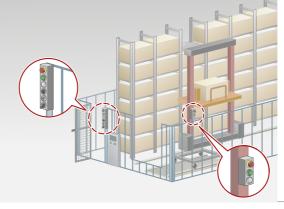


Key selector switches HW



5

Reduce total process time and cost for manufacturing switch boxes for automated storage





Control boxes FB



Single-board panels



Safety laser scanners SE2L

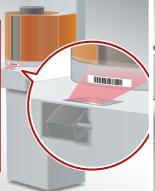


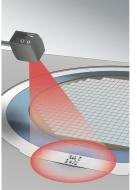


ez-Wheel® industrial wheel drive solutions, for heavy load handling and intralogistics automation



Improve traceability and reduce cost at the same time







Bar code readers WB1F

# ROBOTICS

Production lines with collaborative robots, enable the coexistence of workers and machines, and are common place in industry today. IDEC safety products permit safe slow speed interaction, combined with seamless switching back to full speed. We are here to assist you in achieving compliance to the ever widening landscape of safety standards with our team of safety and automation specialist.



1

Safety measures to enhance the potential of collaborative robots





Safety laser scanners SE2L

2

Make human-robot collaboration safer and more efficient









Remote control pendants HG1P, IDEC Safety Commander™ HT3P, HT4P



3 positions Enabling



Safety controllers FS1B



Prevent accidents by hazard identification and machine status





Surface mount signaling lights LH1D

4

Accessible and recognizable means of stopping in an emergency





Emergency- stop switches XW

5

Improve visibility for more safety





#### **SOLUTIONS BY INDUSTRY**

## **FOOD AND PACKAGING**

Recent concerns on food safety and reliability has changed the trends and demands of the food and packaging industry. IDEC, with our various products developed with cutting-edge technology, helps you solve your problems with food machines and production sites.

Photoelectric switches

Smart RFID readers KW2D for traceability and access control



LED units LF2B



Safety relay modules HR5S / HR6S

Reduce work hours and costs required for building systems







Remote I/O couplers SX8R

PLCs FC6A

New benchmark for small display devices





Operator Interfaces HG2J

How to easily change the control panel of food processing machines that need to be washed



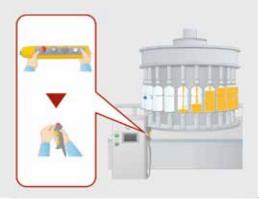




Piezo switches PBA (APEM)

Operator Interfaces HG1J

Prevent repetitive strain injury (RSI) with light action pendent control

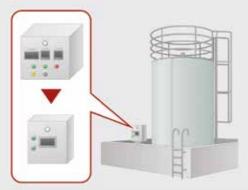




Grip switches HE2G



Reduce panel space and inventory with the integration of HMI and PLC in to one platform





PLC+HMI operator interfaces FT1J



Integrated programmable display controllers FT2J

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#### **SOLUTIONS BY INDUSTRY**

## **AUTOMATIC WAREHOUSE**

There is a growing need for safer and more efficient distribution systems as global supply chains expand in the manufacturing industry. IDEC provides solutions for improving both safety and productivity with the latest technology.

Control the hazard and reduce risks









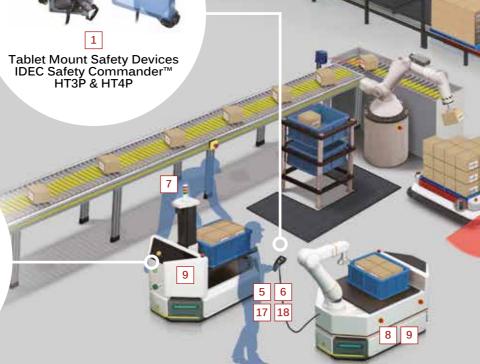
Safety Laser Scanners Safety Switches SE2L Safety Switches HS5L/HS5L-K

Safety controllers FS1B

Safety edge switches HK2H/HK2L & E22BK1

ez-Wheel® Safety Wheel Drive SWD 125 for AGVAMR





Products to enhance efficiency in automation







Flush Silhouette Switches CW Series







Illuminated Buzzer Pilot Lights HW1Z









Pushbuttons LB/LBW/AV/I/ES Series

RFID readers KW2D series





Miniature Joysticks TS/NV Series



IDEC Safety Commander™ HT4P



Programmable Controllers FC6A



Operator Interfaces HG Series

Safety **Products** that ensure the Safety of Workers



Emergency-Stop Switches XA/X6/XW/XN Series

Operator Interfaces Handheld Model HG1P



Enabling Switches HE\*B



LED SignaLight Towers LD6A



ez-Wheel® Safety Wheel Drive SWD 125





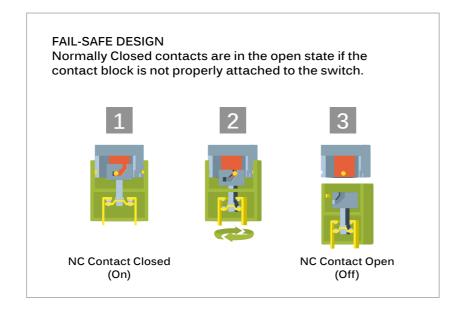
Slim Relays /Universal Relays RJ/RU/RV8



# THE WORLD'S SAFEST EMERGENCY-STOP SWITCHES

By automatically turning off the machine when the contact block or actuator are improperly installed or damaged, all IDEC E-stops meet or exceed International safety standards (ISO 13850 and EN60947-5-5).

IDEC X-series switches use Safe Break Action, a unique feature which reverses the energy direction and uses spring-pressure to guarantee that the NC contacts will open if the emergency switch is damaged or the contact blocks separate due to excessive force (patented design).



#### A COMPLETE RANGE OF E-STOPS FOR ALL YOUR APPLICATIONS



X6 series



XA1E





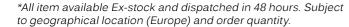


XA

XW

XN1E/XN5E

A selection of fifty part numbers with guaranteed safety performance and availability\*.





#### ELEVATING SAFETY STANDARDS: IDEC'S SOLUTIONS FOR ISO 10218 COMPLIANCE

The introduction of ISO 10218-1:2025 standard has affected OEM and system integrators, with higher requirements on safety and workers' protection from injury.

IDEC has solutions to help you comply with the revised standard. As the world leader in enabling switches, we can equip you with all kinds of 3-position enabling switches, whatever your application. What's more, we have developed all-in-one solutions, such as the HT3P or HT4P IDEC Safety Commander™. These devices allow tablets to be used in industrial automation applications, in full safety.

#### THE LARGEST PORTFOLIO OF ENABLING SWITCHES

Also known as "Operator presence detection" or "3-position safety" switches, the enabling switches allow the operator to work safely on a machine without disabling operation. The use of an enabling switch stops the device in the event of a catastrophic failure or unforeseen problem.

Generally speaking, 3-position safety switches are more especially recommended for critical situations where the user's full attention is vital for the task he is carrying out.

As the leading producer on the market for 3-position safety switches, IDEC have contributed to developing international safety standards, especially for the IEC 60947-5-8(2008) norm, and, benefitting from all firm's experience in the field, the HE\*B, HE2G, and HE1G-L series are perfectly compatible with the highest safety and performance requirements.

#### A PRODUCT ADAPTED TO HUMAN BEHAVIOUR

IDEC safety solutions have been designed for adapting themselves to the different types of reaction a user may have in the face of danger and emergencies. If some users let go of their control grips, others tend to clench them tightly. This is why operator presence switches have been developed with three possible positions:

- > Position 1: no contact, the machine doesn't run.
- > Position 2: light pressure maintained by the user, the machine runs.
- > Position 3: heavy pressure, a "stop" signal is sent and the machine stops running.









HE2B

HE3B

HE5B

HE6B

#### SAFETY AT YOUR FINGERTIPS: HT3P AND HT4P SERIES

By choosing IDEC's new HT3P and HT4P "IDEC Safety Commander™", you are choosing a tablet holder that can be adapted to most tablets on the market while guaranteeing foolproof safety.

The HT3P and HT4P deliver safety, information and control in the palm of your hand. Incorporating IDEC's HE5B (for HT3P) and HE6B (for HT4P) enabling switches and XA1E Emergency-stop switch, safety is a given!

The use of a tablet provides you with greater information for improved efficiency, increased hardware utilisation and so much more.



#### **PUSH-IN TERMINATION TECHNOLOGY: SAVE TIME, SAVE MONEY**

Reduce your wiring time by up to 55% with our PUSH-IN technology. Terminals equipped with this technology are easy to handle and ensure a safe & secure connection. This quarantees excellent contact safety, even in demanding applications.

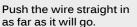


#### **HOW DOES IT WORK?**

This technology is particularly user-friendly: take a stripped solid or fine-stranded conductor with a crimped ferrule, insert it into the clamping point as far as it will go, and your safe & secure connection is already complete. Alternatively, when connecting stranded wire, insert the wire while holding down the pusher with a flat-blade screwdriver. As easy as that.

#### Connecting



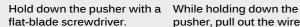




Connection is completed. Pull lightly to make sure it is firmly in place.

#### Removing







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

This option is available on the YW and HW series. which are your "standard industrial style switches" and the CW series (aesthetic flush mount switch series).



CW4B-M1P



HW1L-M3P



YW4L-M2R

#### MOTORIZED SYSTEMS FOR INDUSTRIAL MOBILITY



The compactness of technology and incredible capability of ez-Wheel® products make the integration of a wheel drive on intralogistics considerably easier and faster than conventional solutions: fewer components, greater freedom of integration.





#### MOTORIZATION FOR AUTOMATION

Drives with integrated safety offer the simplest mobile robot architecture on the market.



Safety gear motor SWD® Core

Safety wheel drive SWD® 125

#### **MOTORIZED ASSISTANCE**

Powered wheel drives provide a quick electrical assistance to any manual handling equipment.

AWD.









Electric wheel AWD® 160

#### **IDEC'S INNOVATIONS**



#### **KW2D SERIES** SMART, STAND-ALONE RFID READER

The KW2D series is the ideal product for managing the "mode of safe operation" as specified in the ISO 16090:

- Accurate data collation and reliable data transmission
- High level of reliability thanks to an embedded collating system
- Self-diagnostic for checking the memory status every time the product is switched on
- When communicating with the host device, the data is double-checked using checksumm



With this new IDEC product, you now have the ultimate adaptive solution for accessing control or permission and traceability using RFID technology. The KW2D series has a slick design with 4 LED indicators that are visible even from the side of the product and an auxiliary buzzer for a better user experience thanks to visible and audible feedback on operation status.



## **CONTROLLER WITH OPERATOR INTERFACE**

The FT2J is an integrated automation solution combining a controller and operator interface in a compact design, ideal for space-constrained environments. This unit offers a 7.0-inch display, 40% less power consumption than separate units, and a battery-free design.

- Built-in analog I/O with 12-bit resolution for controlling 0 to 10V DC & 4-20mA signals,
- PID control for precise temperature, flow, or pressure management,
- dual CPU setup for simultaneous high-speed processing and HMI functionality,
- up to 2 digital/analog I/O cartridges, allowing for easy expansion of up to 8 digital and 4 analog I/O,
- 22 I/O as standard, expandable to 30 I/O,
- wide range of protocol support including Serial (RS232C & RS485), Modbus, Ethernet I/P and MQTT.

The FT2J is environmentally robust, with a wide temperature operating range and high water resistance. Its glass PCAP touchscreen is durable, hygienic, and multi-touch capable, resistant to water and glove interactions. Connectivity options include RS232C, RS422/485, Ethernet, and USB-A ports, facilitating diverse device integration and lot functionalities.

Definitely cost-effective and space-saving, the FT2J is versatile and efficient for various industrial applications.

The IDEC commitment to assuring safety in all operating environments has resulted in stylish, compact and space-saving switches and pilot devices. Flush mount switches offer a streamlined package, perfect for applications requiring a hygienic surface.



# LBW SERIES COUNTLESS DESIGN POS

COUNTLESS DESIGN POSSIBILITIES, WITH A SLEEK AND REFINED STYLE!



FLUSH SILHOUETTE SWITCHES: ONLY 2 MM ABOVE THE PANEL



FULLY QUALIFIED AND CERTIFIED

- COMPACT PRODUCTS, EASY TO ASSEMBLE THANKS TO THE DETACHABLE CONTACTS
- COMPREHENSIVE DESIGN: 3 DIFFERENT SHAPES AND 8 DIFFERENT FUNCTIONS
- EASY MAINTENANCE, BUILT-IN PROTECTIVE CIRCUIT FOR LEDS
- INCREDIBLE MECHANICAL LIFE, UP TO 2,000,000 CYCLES FOR MOMENTARY PUSHBUTTONS!









	CW	CW	LB flush	LB flush
TYPE	Pushbutton / indicator	Keylock / selector	Pushbutton / indicator	Keylock / selector
APPROVALS	UL, CE, CCC	UL, CE, CCC	UL, CSA, TUV, CE, CCC	UL, CSA, TUV, CE, CCC
POLES	Up to 6	Up to 6	Up to 3	Up to 3
SEALING	IP65	IP65, IP67	IP65	IP65
ILLUMINATED	Yes	No	Yes	Yes
PANEL CUT-OUT	22 mm	22 mm	18 mm	18 mm
TERMINAL	Screw or push-in	Screw or push-in	Solder/tab or PCB	Solder/tab or PCB
CONTACT TYPE	Modular product	Modular product	Separable blocks	Separable blocks
RATING	Heavy duty (up to 10 Amps)		Light (gold-plated or silver c	









	LBW	LBW	LW flush	LW flush
TYPE	Pushbutton / indicator	Keylock / selector	Pushbutton / indicator	Keylock / selector
APPROVALS	UL, CSA, TUV, CE, CCC	UL, CSA, TUV, CE, CCC UL, CSA, TUV, CE, CCC		UL, CSA, TUV, CE, CCC
POLES	Up to 3	Up to 3	Up to 3	Up to 3
SEALING	IP65	IP65	IP65	IP65
ILLUMINATED	Yes	No	Yes	Yes
PANEL CUT-OUT	22 mm	22 mm	25 mm	25 mm
TERMINAL	Solder/tab or PCB	Solder/tab or PCB	Solder/tab or PCB or screw	Solder/tab or PCB or screw
CONTACT TYPE	Separable blocks	Separable blocks	Separable blocks	Separable blocks
RATING	Light duty (gold-plated or silver contacts, up to 5 Amps)			duty ontacts, up to 3 Amps)









# INDUSTRIAL & HARSH ENVIRONMENT SWITCHES

We have an industrial switch for almost any application. Many models offer the flexibility of modular construction, which allows to change contacts, lamp voltages or button colors easily.



# YW SERIES

A STAPLE OF INDUSTRIAL AUTOMATION



STURDY, HEAVY-DUTY RUGGED CONSTRUCTION WITH SEPARABLE CONTACT BLOCK

- EFFICIENT, STRAIGHTFORWARD PRODUCT, EFFORTLESS MAINTENANCE
- A FLEXIBLE MODULAR CONSTRUCTION
- RESISTANT TO DEMANDING ENVIRONMENT
- PUSH-IN TERMINALS: CONSISTENT AND RELIABLE CONNECTIONS

	YW	YW	MW	LW	LW
TYPE	Pushbutton / indicator	Keylock / selector	Pushbutton / selector	Pushbutton / indicator	Keylock / selector
APPROVALS	UL, CE, CCC, TUV	UL, CE, CCC, TUV	CE, CCC	UL, CSA, TUV, CE, CCC	UL, CSA, TUV, CE, CCC
POLES	Up to 6	Up to 6	Up to 2	Up to 3	Up to 3
SEALING	IP65	IP65	IP65, IP66	IP65	IP65
ILLUMINATED	Yes	No	No	Yes	Yes
PANEL CUT-OUT	22 mm	22 mm	18 mm	22 mm	22 mm
TERMINAL	Screw or push-in	Screw or push-in	Solder/tab or screw	Solder/tab or PCB or screw	Solder/tab or PCB or screw
CONTACT TYPE	Modular product	Modular product	Monobloc	Separable blocks	Separable blocks
RATING	Heavy duty (up to 10 Amps)		Heavy duty (up to 10 Amps)		duty ontacts, up to 5 Amps)











	HW7D	HW1R	HW1M	TW	TW
TYPE	Dual pushbutton	Pushbutton selector	Mono-lever	Pushbutton / indicator	Keylock / selector
APPROVALS	UL, CSA, TUV, CE, CCC	UL, CSA, CE, TUV, CCC	UL, CSA, CE, TUV, CCC	UL, CSA, TUV, CE, CCC	UL, CSA, TUV, CE, CCC
POLES	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4
SEALING	IP65	IP65	IP65	IP65	IP65
ILLUMINATED	Yes	No	No	Yes	Yes
PANEL CUT-OUT	22 mm	22 mm	22 mm	22, 25, 30 mm	22, 25, 30 mm
TERMINAL	Screw or push-in Screw or push-in	Screw or push-in	Screw or push-in	Screw	Screw
CONTACT TYPE	Modular product	Modular product	Modular product	Modular product	odular product
RATING	Heavy duty (up to 10 Amps)			Heavy duty (u	p to 10 Amps)

# MINIATURE & COMPACT SWITCHES

Our miniature and compact switches add style and safety to any application in a space saving package.



A SERIES
FITS ALL APPLICATIONS!



COMPACT, WITH UNCOMPROMISING MECHANICAL LIFE

- 4 DIFFERENT BUSHING DIAMETERS IN 1 SERIES
- COMPREHENSIVE DESIGN
- WATERTIGHT PRODUCTS









	LB	LB	A6	A6
TYPE	Pushbutton / indicator	Keylock / selector	Pushbutton / indicator	Keylock / selector
APPROVALS	UL, CSA, TUV, CE, CCC	UL, CSA, TUV, CE, CCC	UL, CSA, CE, CCC	UL, CSA, CE, CCC
POLES	Up to 3	Up to 3	Up to 2	Up to 2
SEALING	IP65	IP65	IP65 or IP40	IP65 or IP40
ILLUMINATED	Yes	Yes	Yes	No
PANEL CUT-OUT	16 mm	16 mm	16 mm	16 mm
TERMINAL	Solder/tab or PCB	Solder/tab or PCB	Solder/tab or PCB	Solder
CONTACT TYPE	Separable blocks	Separable blocks	Monobloc	Monobloc
RATING		duty ontacts, up to 5 Amps)	Light duty, up to 1 Amp	Light duty, up to 1 Amp







	A2	A1	A8
TYPE	Pushbutton / indicator	Pushbutton / indicator	Pushbutton / indicator
APPROVALS	UL, CSA, CCC	UL, CSA, CCC	UL, CSA, CCC
POLES	Up to 2	1	1
SEALING	IP65 or IP40	IP40	IP40
ILLUMINATED	Yes	Yes	Yes
PANEL CUT-OUT	12 mm	10 mm	8 mm
TERMINAL	Solder	Solder	Solder
CONTACT TYPE	Monobloc	Monobloc	Monobloc
RATING	Light duty, up to 1 Amp	Light duty, up to 1 Amp	Light duty, up to 1 Amp

# **EMERGENCY** STOP SWITCHES

For more than 70 years, IDEC has produced reliable and high-quality emergency-stops, making the point of contact between humans and machines easy, safe and secure.



#### XW SERIES, THE ULTIMATE IN SAFETY



FAIL-SAFE DESIGN WITH SAFE BREAK TECHNOLOGY



2 WAYS OF RESETTING: PULLING OR TURNING

- ILLUMINATION AVAILABLE, ALWAYS-ON OR PUSH-ON FOR INCREASED VISIBILITY
- SPACE-SAVING DESIGN: SAME DIMENSION FROM 1 TO 4 CONTACTS AND ILLUMINATION!
- SPECIFIC DESIGN TO SUIT ALL APPLICATIONS: SMOOTH HEADS FOR INCREASED HYGIENE, **GREEN VISUAL INDICATOR**









	X6	XA AND XW UNIBODY	XA	YW
	Smooth head			
SAFE BREAK TECHNOLOGY	Yes	Yes	Yes	No
PANEL HOLE SIZE	16 mm panel hole	16 mm for XA 22 mm for XW	16 mm panel hole	22 mm panel hole
OPERATOR SIZES	Ø 30 mm, Ø 40 mm	Ø 29 mm	Ø 29 mm, Ø 40 mm	Ø 40 mm
NUMBER OF CONTACTS	up to 2 NC: 1,2 / NO: 0	up to 3 NC 1 or 2 / NO 1	up to 4 NC: 1,2,3,4 / NO: 0,1	up to 2 (ill.), 3 (non-ill.) NC: 1,2,3 / NO: 0,1
TERMINAL CONNECTION	solder/tab, solder	solder/tab, solder	solder, PCB	screw, push-in
OPERATION		Push to lock, tur	n or pull to reset	
ILLUMINATION		Yes/colour-changing	Yes	Yes
CERTIFICATIONS				c <b>AL</b> us 😂 ( € 🍩











			• • • •		
	HW	XW	XN1E	XN4E	EU2B
		Green visual indicator		Built-in padlock	Hazardous Location
SAFE BREAK TECHNOLOGY	No	Yes	Yes	Yes	No
PANEL HOLE SIZE	22 mm panel hole	22 mm panel hole	30 mm panel hole	30 mm panel hole	30 mm panel hole
OPERATOR SIZES	Ø 29 mm, Ø 40 mm, Ø 60 mm	Ø 38 mm, 40 mm, Ø 60 mm	Ø 40 mm, Ø 60 mm	Ø 44 mm	Ø 40 mm
NUMBER OF CONTACTS	up to 4 NC: 1,2/ NO: 0,1,2	up to 4 NC: 1,2,3,4 / NO: 0,1	up to 4 NC: 1,2,3,4 / NO: 0,1	up to 4 NC: 1,2,3,4 / NO: 0,1	up to 3 NC: 1,2,3 / NO: 0,1
TERMINAL CONNECTION	screw, push-in	screw, solder, PCB	screw	screw	screw
OPERATION	Push to lock; pull, turn or key to reset	Push to lock, turn or pull to reset		Push to lock, turn to reset	Push to lock, turn or pull to reset
ILLUMINATION		Yes Push on illumination	Yes Push on illumination	Yes Push on illumination	
	(II) (II) EMERGENCY	FMFRGENCY	FMERGENCY	(II) FMERGENCY	

CERTIFICATIONS







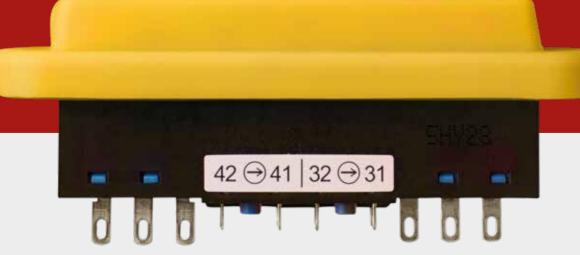








The IDEC range of safety enabling switches and new safety control devices: combining confidence and reliability with your productivity needs



# HE2B SERIES, ENHANCED SAFETY



THE WORLD'S NUMBER ONE 3-POSITION SWITCH



EXCEPTIONAL TACTILE FEELING AND ERGONOMICS

- DUAL CHANNEL
- DUPLICATED CONTACTS TO MEET THE HIGHEST SAFETY STANDARDS
- FULL RANGE OF ENABLING AND GRIP-STYLE ENABLING SWITCHES
- ADDITIONAL MONITOR SWITCH TO COORDINATE SEVERAL ENABLING SWITCHES ON A SAME DEVICE









	HE2B	HE3B	HE5B	HE6B
NUMBER OF 3-POSITION CONTACTS	2	2	2	2
EXTRA MONITORING CONTACT	0, 1 or 2	0	0	1 or 2
PANEL CUT-OUT	70 x 12.2 mm + 2 x Ø 3.2 holes	Ø 16.2 mm + 1 x Ø 3.2 hole	Ø 16.2 mm	29.4 x 16.2 mm + 2 x Ø 3.2 holes
IP RATING WITHOUT RUBBER BOOT	IP40	IP40	Not applicable	Not applicable
IP RATING WITH RUBBER BOOT	IP65	IP65	IP65	IP65
ACTUATING FORCE' POSITION 1 -> 2	4 N	Approx. 4 N	3 N	4 N
ACTUATING FORCE* POSITION 2 -> 3	30 N	Approx. 20 N	17 N	17 N
RUBBER BOOT				Please contact us

\*Approximate force, without the rubber boot.

CERTIFICATIONS







c**¶**us ❷ (€

		•	
	HE1G-L	HE2G	HE9Z
STYLE	Palm-grip	Palm-grip	Thumb-grip
	со	NTACT	
EXTRA MONITORING CONTACT	Optional, 1	1	No
E-STOP	Optional, 2NC	Optional, 2NC	No
ADDITIONAL SWITCH	Optional, 1	Optional, max 2 switches, DPDT	No
ADDITIONAL PILOT LIGHT	No	Optional (green)	No
ADDITIONAL KEY SELECTOR	No	Optional (2 position, DPDT)	No
INTERLOCK SWITCHES**	HS5	HS5	No
	ACCE	SSORIES	
A CABLE GLAND	Included	Included	Included
HANDSTRAP	No	Optional, HG9Z-PS1	No
MOUNTING BRACKET	Optional, HE9Z-GH1	No	Optional, HE9Z-GH1
CERTIFICATIONS	CUL US LISTED  CONTROL  CONTRO		c <b>711</b> us <b>②</b> (€ □

 $<sup>\</sup>hbox{``Possibility to combine an interlock switch to have an automatic/manual mode-see HS5 series datasheet.}$ 

SAFETY

In Human Machine Interface (HMI) environment, ensuring the safety of operators and machines is given the top priority. Our safety products assure that a safe machine environment is established per the requirements of the machine designer.



## **SE2L ADVANCED SERIES**

SAFETY LASER SCANNER

- DISTANCE 5 M, SENSING ANGLE 270 DEGREES
- MASTER & SLAVE CONNECTIVITY (UP TO 4 DEVICES AND ETHERNET CONNECTIVITY)
- SMALLEST SIZE (85MM X 85MM X 95MM)
- MAXIMUM OF 128 AREA PATTERNS
- SUPERIOR RESISTANCE TO DUST, UV RADIATION AND SPLASHES





#### HS6E/6B

Small and thinnest solenoid interlock switch with five poles and solenoid. HS6B: World-class compactness with three poles of contacts.

#### HS5D

Compact and robust miniature safety interlocks with Plastic or stainless steel heads. Design includes a fail safe tamper detection head.

#### **HS** Locking switches

IDEC range of safety locking switches, ranging from 500 N to the new HS1T 5000N locking switch. Ideal for use in injection moulding, food machines and robotic applications.

#### **SAFETY CONTROLLERS**

#### **SAFETY RELAY MODULES**

#### **FORCE-GUIDED RELAYS**











#### RF1-RF2

Compact and EN compliant or 2-pole force guided relays. Contact configuration: Built-in LED indicator model and counterelectromotive force diode model. Two terminal styles: socket mounting and PC board mounting.

#### FS1B

No programming requi red—just turn on a logic switch to complete configuration of a safety circuit. Pre-programmed logics are compliant with international standards

#### HR5S and HR6S Safety Relays

The new HR5S range of Single channel safety relays with true Category 2 architecture up to PLd providing test and annunciation channels. Introducing the new range of HR6S dual channel digital safety relays with full status indications and pulse train status outputs.

#### SAFETY EDGE SWITCHES

#### NON-CONTACT INTERLOCK SWITCHES







#### HS7A

Compact size and easy positioning.

#### HS3A

RFID non-contact interlock switch, Category 4 and PLe compliant.

#### HK2H/HK2L & E22BK1

Low-profile and oil-resistant pressure sensitive sensors to keep operators safe.

SAFETY LASER SCANNER

#### **ACTUATORS**









#### Door Handle

Locks rattling doors smoothly and securely

#### Slide Handle

Shock-resistant metal slide handle actuators ensure safety of operators.

#### SE2L

The smallest Safety Laser Scanner in the world. Up to four SE2L can be connected together which is ideal for detection of four sides on AGVs.

IDEC EXCLUSIVE

SENSING

PRODUCTS



SA2E SA1E-L Simple, compact design for world-wide usage Class 1 laser with fastest response in its class. Reliably detects fastmoving objects. with six sensing methods.





#### SA1E-X SA1U Universal voltage types operate on 24-240 V AC and 12-240 V DC. DC power types operate on 12-24 V DC. Four sensing methods (through-beam, polarizedretroreflective, diffuse-reflective, Coaxial optical structure and narrow beam ensure stable detection; unaffected by constriction, inclination or shaking of a bottle. and background suppression).

#### PHOTOELECTRIC SENSORS

**CODE SCANNERS** 

WB1F

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

#### **KW2D SERIES** STAND-ALONE RFID READER

- FOR ACCESSING CONTROL OR PERMISSION AND TRACEABILITY
- SLICK AND REFINED DESIGN WITH 4 LED INDICATORS
- INTEGRATED COLLATION FUNCTION
- PUSH-IN TERMINALS, ETHERNET PORT
- TAG HOLDER AVAILABLE

#### SA1N

Compact design with high accuracy, featuring a built-in amplifier, flexible installation, adjustable sensitivity, and IP67-rated protection.

#### **RFID TAG READERS**



#### KW2D

Compatible with contactless cards such as employee IDs (ISO/IEC14443 Type A, ISO/IEC18092,JIS X6319-4, ISO/IEC15693) or Keyfob tags (ISO/IEC14443 Type A). Connection: Ethernet port. Communication protocols: Modbus TCP; planned: EtherNet/IP and CC-Link.

34 IDEC PRODUCT GUIDE

SWITCHES

SAFETY

PANEL

AUTOMATION

# LED LIGHTING & SIGNALLING

Immediate indication of process status is a must in any application. Our indicator lights and buzzers are reliable and long-lasting to give the customers peace of mind.



# LH1D SERIES IDEC SURFACE MOUNT INDICATOR

- LED FLAT OR DOME SURFACE MOUNT INDICATORS
- IP67 (IEC60529) RATED, CAN BE USED IN ENVIRONMENTS SUBJECT TO WASH DOWN
- NEMA TYPE 4X AND IP67 DEGREE OF PROTECTION
- SINGLE COLOUR, TWO COLOUR (BI-COLOUR) AND THREE COLOUR (TRI-COLOUR) VERSIONS AVAILABLE
- MARKING FILM CAN BE INSERTED INTO FLAT INDICATOR









	LD6A	HW1Z	LH1D	HW1P-5Q4G
	Design meets functionality. Stylish oval shape with separated indicators for clear visibility.	Waterproof combination buzzer and pilot light. Meets the requirement of the elevator standard EN81-20/50.	Innovative indicators with IP67 protection. Directly mountable on equipment and aluminium frames.	With clear status recognition from a distance as well as the side, this pilot light is more prominent than traditional units but still fits into a Ø22 mm cut out.
	Machine tools Control panels Production lines.	Elevators Production lines Control panels Material Handling.	Robot manufacturers Machine tools Reception rooms.	Automotive machine production lines Control panels.
RATED INSULATION VOLTAGE	60 V	30 V	32 V	
OPERATING VOLTAGE	24 V AC/DC	12 to 24 V DC	24 V AC/DC	24 V AC/DC
RATED CURRENT	20 to 30 mA per Tier	18 mA (24V DC) 8 mA (12V DC)	17 mA	15 mA
ILLUMINATION	LED	LED	LED	LED
FLASHING	X	Χ		
SOUND PRESSURE	70 to 90 dB	90 dB Min at 0.1 m (24 V) 84 dB min at 0.1 m (12 V)		
SOUND PRESSURE	70 to 90 dB			
SOUND PRESSURE  MOUNTING	70 to 90 dB	84 dB min at 0.1 m (12 V)	1	1
		84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS	1 X	1
MOUNTING	5	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS		1 22 mm
MOUNTING SURFACE	5	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1		
MOUNTING SURFACE	5	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm		
MOUNTING SURFACE BUSHING DIAMETER	5	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm		22 mm
MOUNTING SURFACE BUSHING DIAMETER SCREW	5	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm  TERMINAL OPTIONS		22 mm
MOUNTING SURFACE BUSHING DIAMETER  SCREW PUSH-IN TERMINALS	5 X	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm  TERMINAL OPTIONS	X	22 mm
MOUNTING SURFACE BUSHING DIAMETER  SCREW PUSH-IN TERMINALS WIRE	UL1007  Steady: IP65 Steady/Flashing/Alarm: IP54 Pole mount: (w/o L-shaped bracket) IP54 (with L-shaped bracket)	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm  TERMINAL OPTIONS  X  Panel Front: IP65 (IEC 60529) Terminal: IP40 (IEC 60529) With boot:	X UL20276	22 mm X
MOUNTING SURFACE BUSHING DIAMETER  SCREW PUSH-IN TERMINALS WIRE	UL1007  Steady: IP65 Steady/Flashing/Alarm: IP54 Pole mount: (w/o L-shaped bracket) IP54 (with L-shaped bracket)	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm  TERMINAL OPTIONS  X  Panel Front: IP65 (IEC 60529) Terminal: IP40 (IEC 60529) With boot: IP54 (IEC 60529)	X UL20276	22 mm X
MOUNTING SURFACE BUSHING DIAMETER  SCREW PUSH-IN TERMINALS WIRE  SEALING	UL1007  Steady: IP65 Steady/Flashing/Alarm: IP54 Pole mount: (w/o L-shaped bracket) IP54 (with L-shaped bracket) IP23	84 dB min at 0.1 m (12 V)  MOUNTING OPTIONS  1  22 mm  TERMINAL OPTIONS  X  Panel Front: IP65 (IEC 60529)  Terminal: IP40 (IEC 60529)  With boot: IP54 (IEC 60529)  STANDARDS	UL20276	22 mm X

Our LUMIFA LED industrial task and machine lights provide bright, long-lasting illumination for a wide variety of applications.



# LF3D SERIES, MAKES VISUAL INSPECTION EASY

- UNIFORM LIGHT DISTRIBUTION
- SURFACE OR RECESSED MOUNT OPTIONS
- CONNECTION TYPES M12 REAR, M8 SIDE, REAR & SIDE CABLE EXIT
- IP67, IP67F, IP67G AND IP69K PROTECTION RATINGS
- WIDE OPERATING TEMPERATURE RANGE UP TO 55°C







#### LF1B-N

Available in six lengths, two lens covers and six distinct colors, this range provides a flexible lighting solution for multiple applications.

Plant Equipment
Test Equipment
Food Processing Machines
Show Cases
Photosensitive Material
Darkroom Experiments
Advertising Displays
Work Station and Task Lighting.

LF2B

Slim, compact surface mount LED units with universal input and excellent visibility.

Control Panels
Food and Packaging
Pharmaceutical
Plants Printing Various
Machines and Systems Work Station
and Task Lighting.

LF3D

Designed to be strong, reliable, and energy-efficient for machine tools applications.

> CNC Machine Tools Processing Machines Pharmaceutical/Chemical Production Systems Test Equipment.

	LF1B-N	LF2B	LF1D-C	LF3D-SB	LF3D-FB
PROTECTION CLASS	IP65	IP65	IP67 IP67F* IP69K	IP65, IP67, IP67G, IP69K	IP65, IP67, IP67G
ILLUMINATION COLOUR	3,000 K or 6,600 K	6,500 K	5,700 K	5,70	00 K
COLOUR OPTIONS	Cool White Warm White Yellow	Cool White	Cool White	Cool	White
POWER CONSUMPTION	Between 1.0 W & 17.3 W	Between 2.2 W & 15.9 W	4.6 W	9.2W	9.2W
OPERATING VOLTAGE	24V DC	12/24V DC 100 to 240V AC	24V DC	24V DC	24V DC
REFERENCE ILLUMINATION	Between 10 lx & 1,350 lx	Between 10 lx & 1,350 lx	180 lx	1800 lx (standard distribution) 1000 lx (diffused distribution)	
DIMMING CAPABILITIES				Х	X
		M	IOUNTING		
SURFACE	Х	Х	Х	Х	
RECESS					X
			COVER		
CLEAR	Х	Х			
WHITE	X	X			
		LEN	IS MATERIAL		
REINFORCED GLASS/CLEAR			X	X	Х
POLYCARBONATE	X	X			
REINFORCED GLASS / DIFFUSED				X	X
UNIFORM				X	X

<sup>\*</sup> Reinforced glass model

Over the years, IDEC has introduced many new innovations to its family of DIN-rail and panel products.

Thanks to technological advances and creative engineering, our range has continued to set a new standard as we strive to meet the needs of our customers.



#### SJ SERIES **PUSH-IN RELAY SOCKETS**



RELAY CONTACT TERMINALS ON UPPER SIDE AND COIL TERMINAL ON THE LOWER PROVIDE HIGHER SAFETY AND ALLOWS EASY WIRING



**PUSH-IN STYLE CONNECTION ACHIEVES** HIGH CONTACT RELIABILITY AND VIBRATION RESISTANCE REGARDLESS OF WIRE SIZE AND SHAPE

- IT IS INSTALLED EASILY ON A 35-MM-WIDE DIN-RAIL WITH A SNAP-ON ACTION
- AVAILABLE IN EITHER 1 POLE OR 2 POLE
- UL RECOGNISED, CSA CERTIFIED, EN COMPLIANT, FLAMEPROOF MATERIAL UL94 V-0









**TIMERS** 



RV8H	RJ	RU	RL	RF2
Ultra-slim, 6 mm-wide interface relays suitable for high density mounting. Screw and spring clamp terminals. Release lever for easy locking and removal of relay.	Compact and rugged power relays. Large contact ratings.	Full featured environment-friendly, 2 Pole - 10 A, 4 Pole - 6 A relays. No lead or cadmium used.	This power relay ensures stable operation even when voltage drops momentarily. Single pole rated at 30A, double pole at 25A.	2-pole force guided relay to reduce cost and installation space. Two terminal styles - socket mounting and PC board mounting.

**SOCKETS** 



SJ







Slim and space-saving plate for RJ and RF2.

SR/SH/SM SY/SU

DIN-rail mount (standard, fingersafe, slim, spring-clamp), panel mount (solder, wire-wrap), and PC board mount.

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. ON Delay function, highly precise time control, instant monitoring of operation status by LED indicators.

#### SWITCHING POWER SUPPLIES





**PUSH-IN TERMINALS** 

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

One step wiring for quick and highly reliable connection. Available for a wide range of IDEC panel products, including PS3V power supplies and SU/SJ relay sockets.

From powerful Programmable Logic Controllers (PLCs) that drive precision in industrial processes to intuitive Operator Interfaces that put control at your fingertips, and Remote Control Pendants that redefine accessibility in full safety, IDEC is your gateway to seamless automation.



#### FC6A / FC6A PLUS SERIES, PLC/CONTROLLER

- POWER, PERFORMANCE & CONNECTIVITY
- IIOT THROUGH ETHERNET
- WIDE RANGE OF PROTOCOL SUPPORT INCLUDING ETHERNET I/P, SERIAL, MODBUS, MQTT, BACNET
- UP TO 32 PID LOOPS (PID, PIDD, AND PIDA)
- WIRELESS COMMUNICATION VIA BLUETOOTH CONNECTIVITY
- UP TO 2060 I/O
- FAST PROCESSING AND REFRESH RATE











#### FC6A Plus /All-in-One

FC6A Plus is ideal for controlling not only large-size machines, but also entire smallsize production lines. FC6A All-in-One has high performance and easy programming features

#### FT1A-H24RA

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

#### SX8R

Wide range of I/O modules (48 models) to build a highly efficient and suitable remote I/O system.

#### FT1J

4.3 inch all-in-one automation solution combining a controller with an operator interface.

#### FT2J

7 inch PLC / touchscreen combination, 22 I/O expandable to 30. Embedded ethernet and serial communications.

#### **OPERATOR INTERFACES**











#### HG5G (15")

Super bright, high resolution display with outstanding performance, visible from a distance and in well-lit surroundings. Display resolution: 1024 (W)×728 (H) View angle: right and left 80°, up 60°, down 80°.

#### HG4G (12.1")

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

#### HG3G (10" and 8")

Excellent visibility by super-bright LÉD 700 cd/m2 (10.4- inch), 600 cd/m<sup>2</sup> (8.4-inch)

#### HG2J (7")

High performance and feature rich touchscreen. Using PCAP touch technology, this interface can be used even with gloves and is UV, scratch, water and chemicals resistant. The HG2J is IoT compatible.

#### HG1J (4.3")

Compact, rugged and IoT-ready operator interface with bright TFT color display. Its durable PCAP touchscreen and remote monitoring capabilities make it ideal for industrial applications.

#### REMOTE CONTROL PENDANTS

#### **ETHERNET SWITCHES** AND CONNECTIVITY

#### **IDEC SMARTRELAY**











#### HT4P

A tablet holder that enables any industrial tablet to provide operation safety It features wired LAN connection and mechanical switches or custom products like joysticks.

#### HT3P

A tablet holder

that can be adapted to any tablet on the market while guaranteeing foolproof safety Incorporating IDEC's HE5B Enabling switch and a XA1E Emergencystop switch.

#### HG1P

Hand-held operator interface with a 4.3" touch screen. Simple configuration using the IDEC Automation Organiser WindOI-NV4 programming software and Integrated Ethernet and Serial (RS232&RS485) communication

#### SX5E

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

#### RJ45/ USB plugs

Flush silhouette products with black or metal bezel. Design compatible with the CW series, Shielded products and cable. Cat 6, Class EA RJ45 port. IP65, IP67 with the accessories.

#### FL1F

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





16 FACTORIES



More than 75 years of experience



3,100 EMPLOYEES WORLDWIDE



100 000 + REFERENCES



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