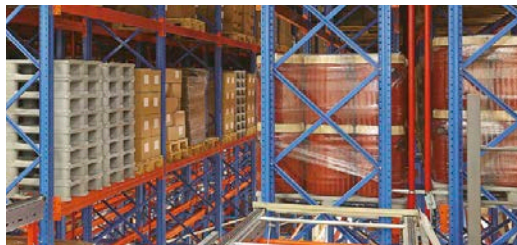
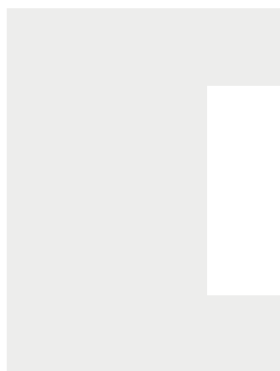




Enabling Safe Automation Solutions



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 €500 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.



APEM
an IDEC company



CONTENT

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OUR EXPERTISE, OUR CAPABILITIES

6

SOLUTIONS BY BUSINESS

- Machine tools
- Material handling
- Robotics
- Food and packaging
- Automatic warehouse

18

TECHNOLOGIES & INNOVATIONS

22

SELECTION GUIDES BY SOLUTIONS

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

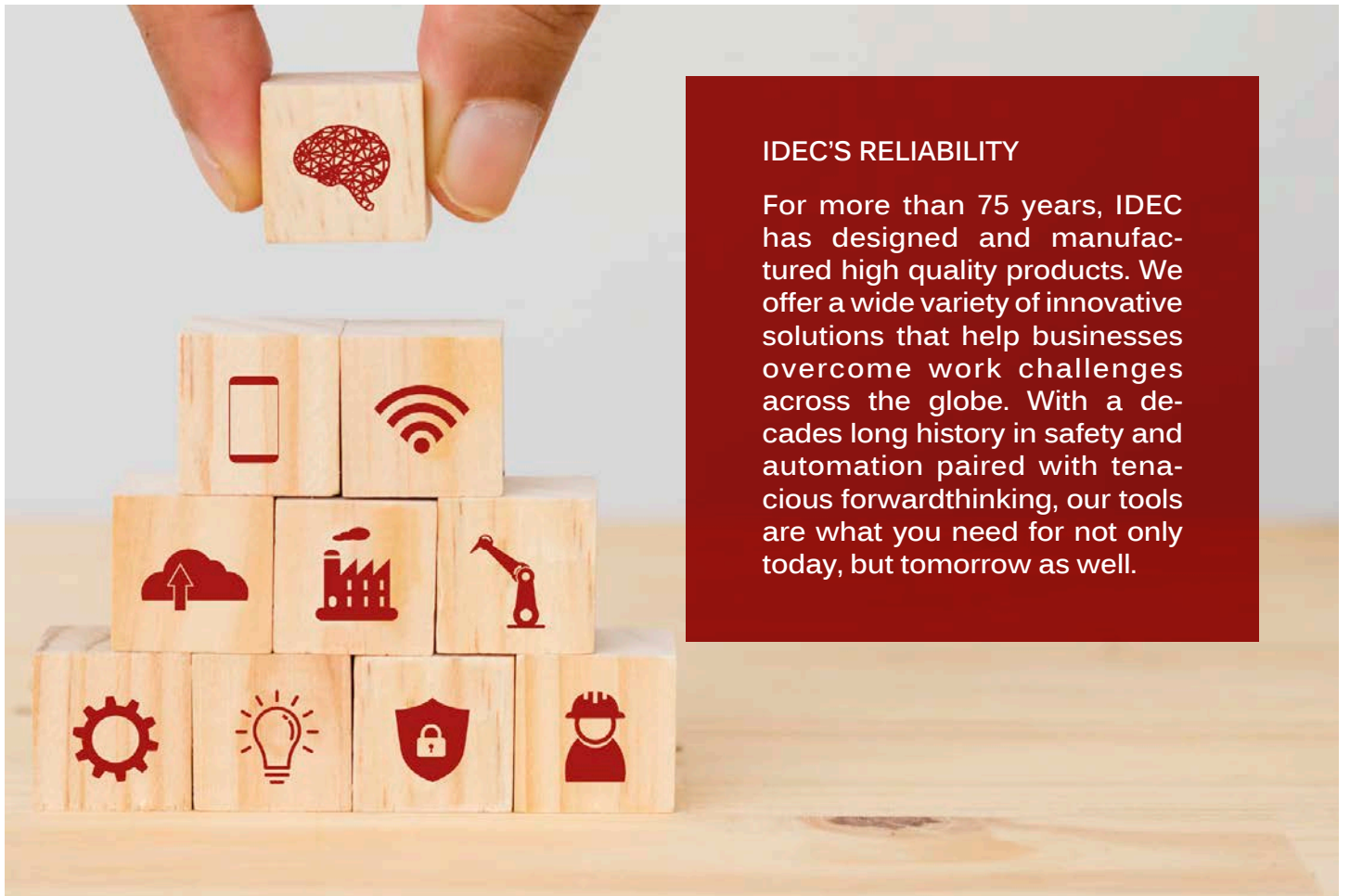
- Automation products

IDEC SAFETY DNA

With decades of experience, we focus on safe environments for humans interacting with machines, and to that end we develop solutions maximizing your safety and productivity. We provide our customers with both efficient solutions and reliable expertise, supplying cutting-edge safety and automation solutions as well as one-to-one support.



OUR EXPERTISE, OUR CAPABILITIES



IDEC'S RELIABILITY

For more than 75 years, IDEC has designed and manufactured high quality products. We offer a wide variety of innovative solutions that help businesses overcome work challenges across the globe. With a decades long history in safety and automation paired with tenacious forwardthinking, our tools are what you need for not only today, but tomorrow as well.

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 competence 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, optical 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

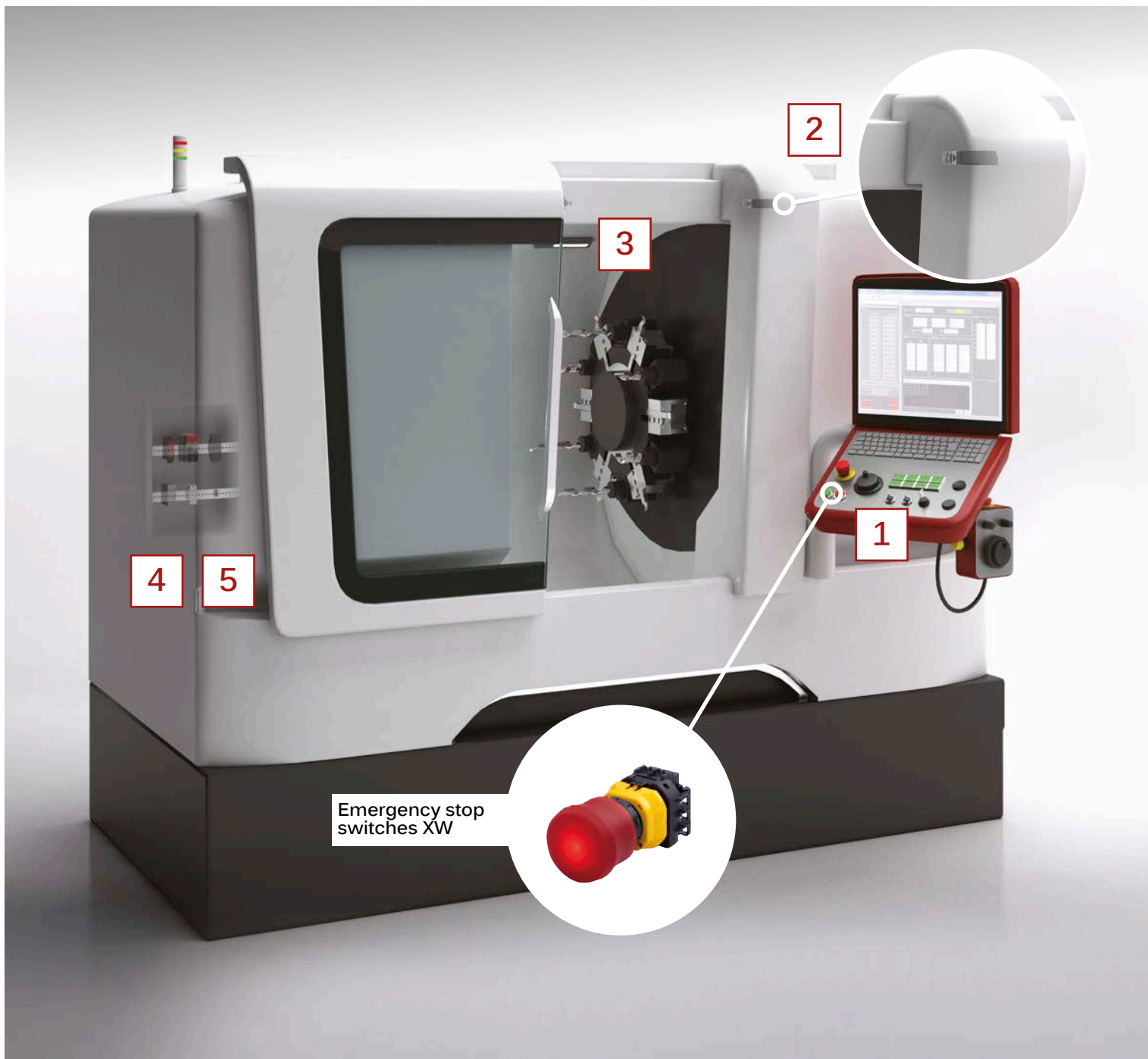
For high performance and enhanced robustness, ensuring continuous operation in various environments delivering enhanced productivity.

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.



1

Increase added value with sophisticated interface design



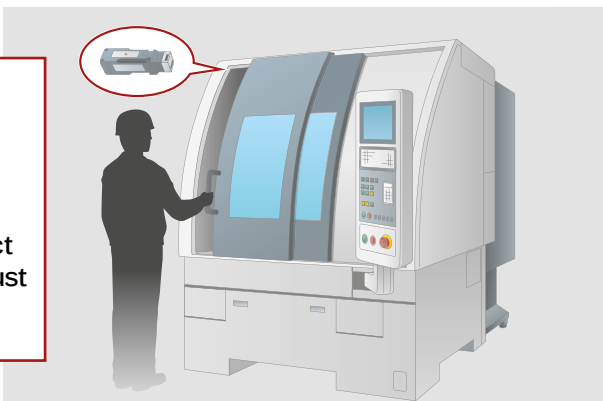
Flush silhouette switches LB/LBW



Single-board panels

2

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



Adjustable actuators (spring-loaded type)



Interlock switches HS5L / HS1T

3

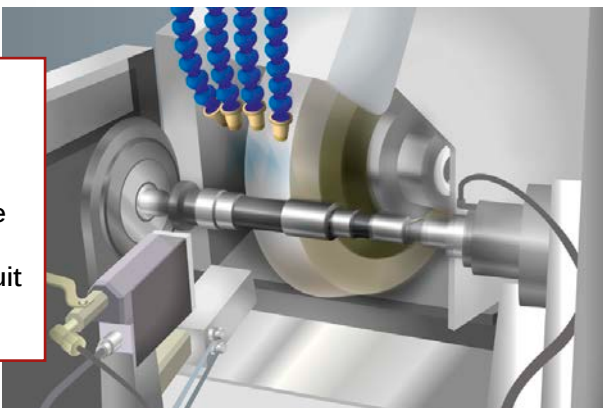
Use flat LEDs to make chatter marks on machined surface visible in early stage



LED units LF1D & LF3D

4

Improve machine up time with State of the Art power supplies and circuit protection



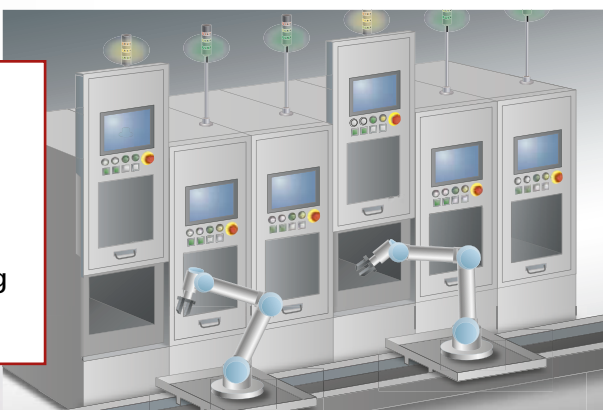
Power supply PS5R-V



Circuit protectors NC1V

5

Compact components contribute to the downsizing of machine tools



Interface relays RV8H

SOLUTIONS BY INDUSTRY

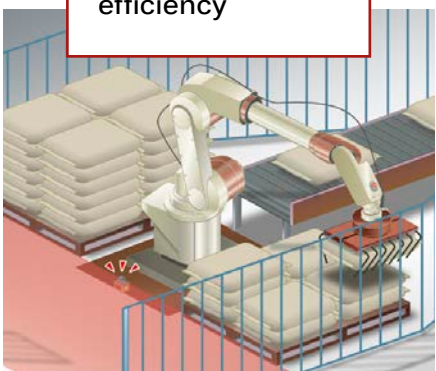
MATERIAL HANDLING

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.



1

Reduce accident risks while maintaining production efficiency

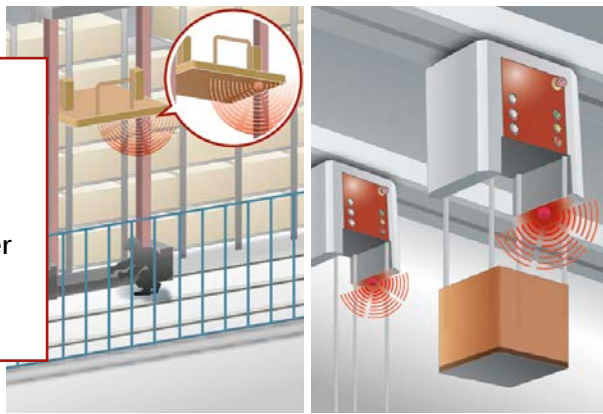


Safety laser scanners
SE2L



2

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



Safety edge switches
E30BK1 & E22BK1



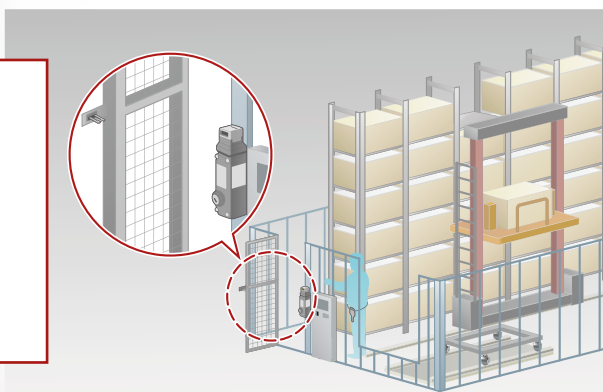
Operator Interface
HG2J



PLCs
FC6A

4

Reduce risk by controlling the hazard at the point of entry



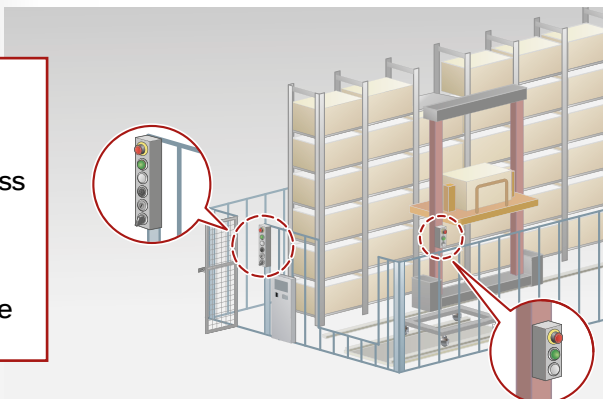
Key interlock
switches HS5E-K



Key selector
switches HW

5

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



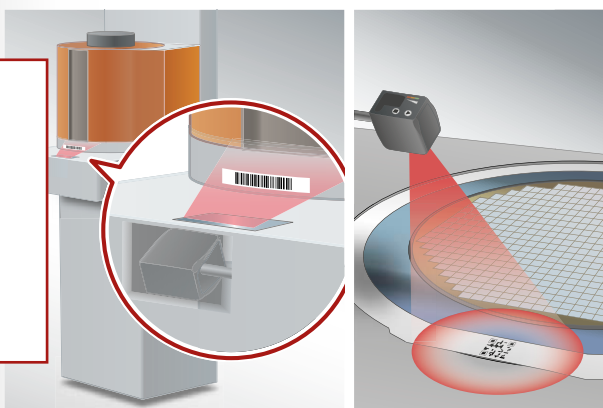
Control boxes
FB



Single-board
panels

6

Improve traceability and reduce cost at the same time

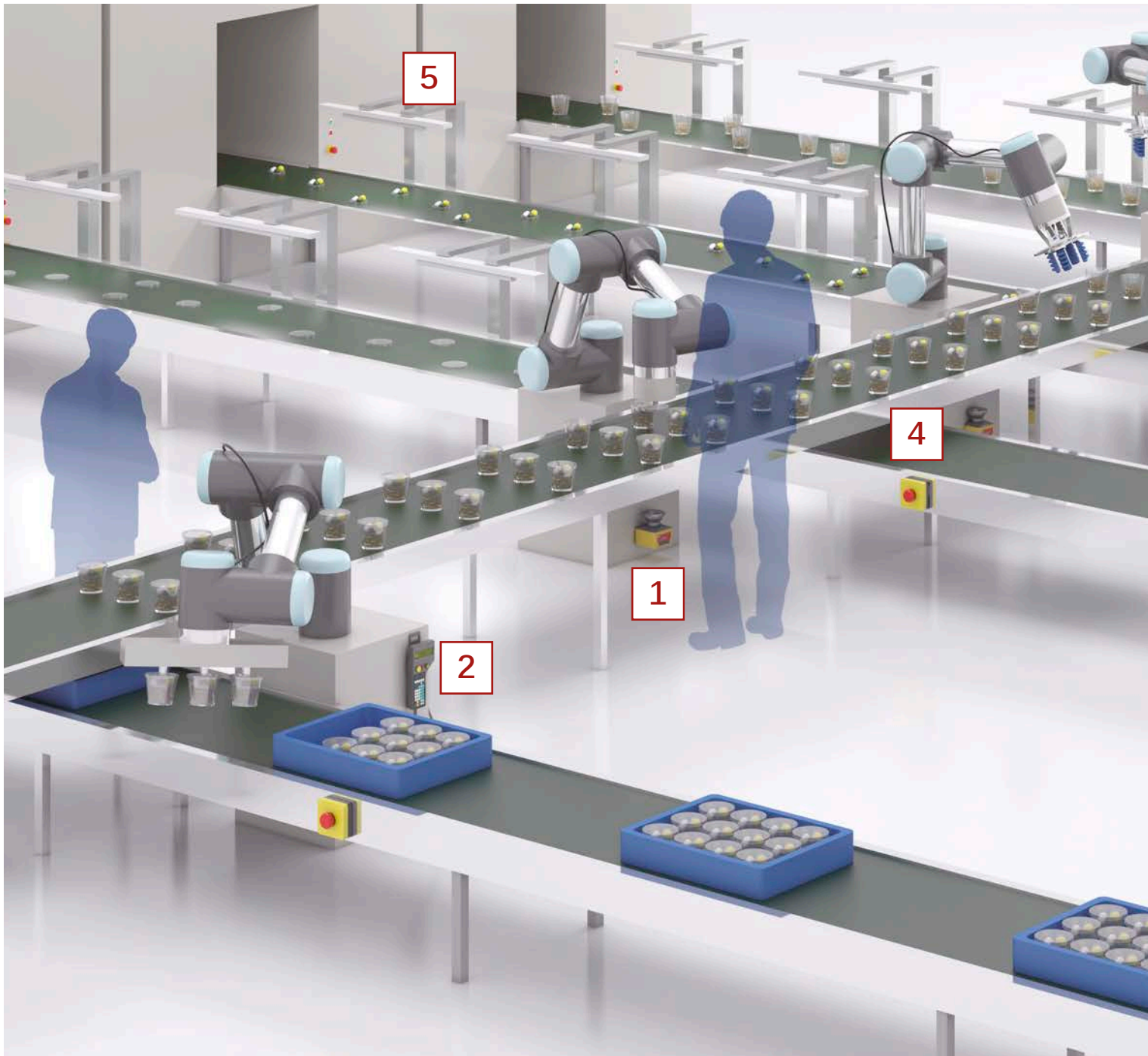


Bar code reader
WB1F

SOLUTIONS BY INDUSTRY

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

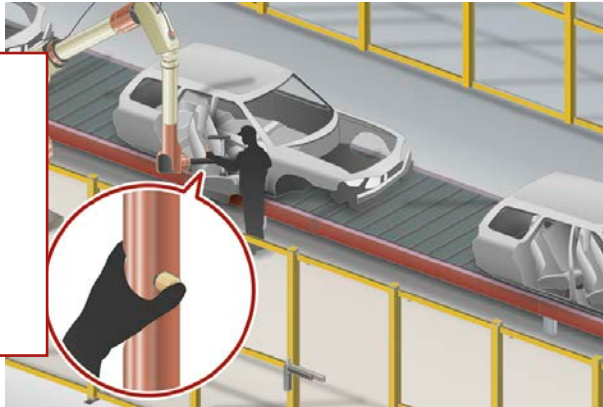
Safety measures to enhance the potential of collaborative robots



Safety laser scanners
SE2L

2

Make human-robot collaboration safer and more efficient



IDEC Safety commander™
HG1P, HT3P & HT4P



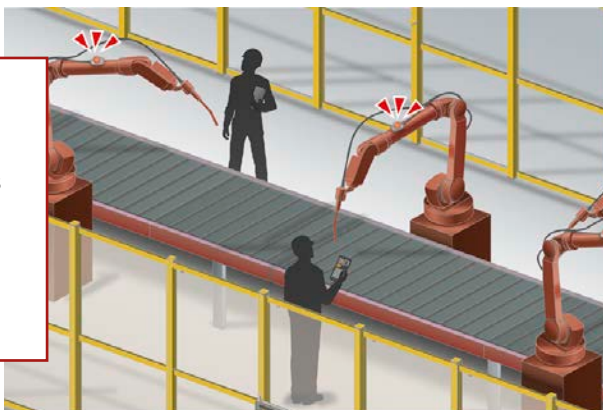
3 positions Enabling
switches



Safety relay
modules HR6S

3

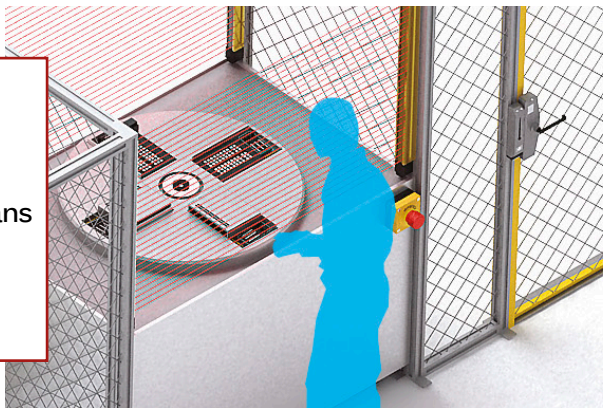
Prevent accidents by hazard identification and machine status



Surface mount signaling
lights LH1D

4

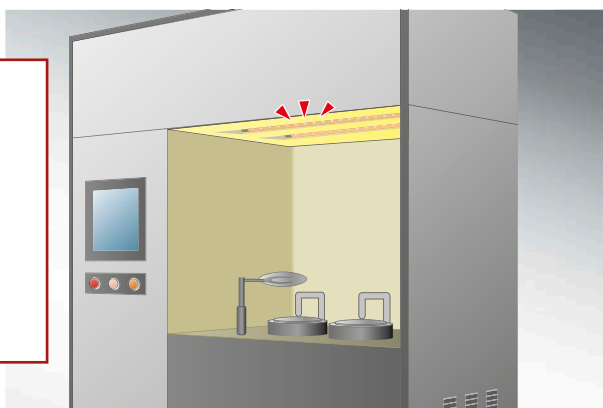
Accessible and recognizable means of stopping in an emergency



Emergency stop
switches XW

5

Improve visibility for more safety



LED units
LF2B

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.



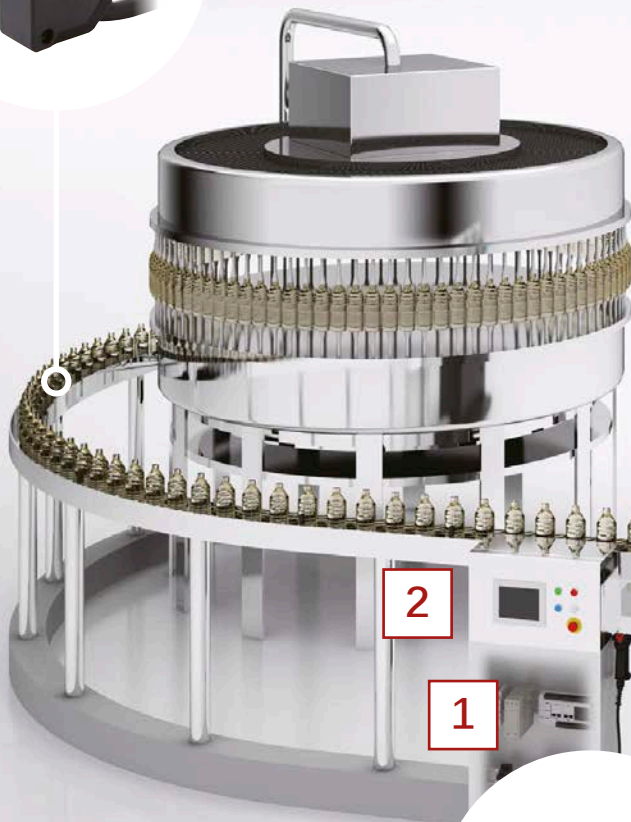
Photoelectric switches
SA2E



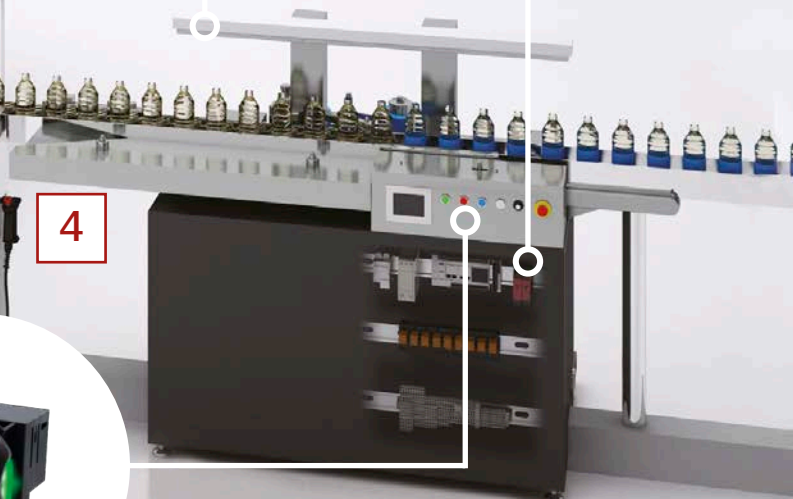
LED units
LF2B



Safety relay
modules HR5S / HR6S

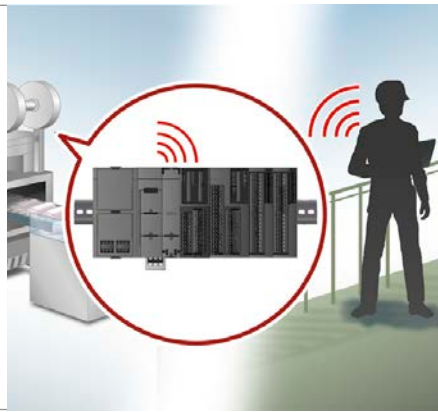


Smart RFID reader KW2D
for traceability and
access control



1

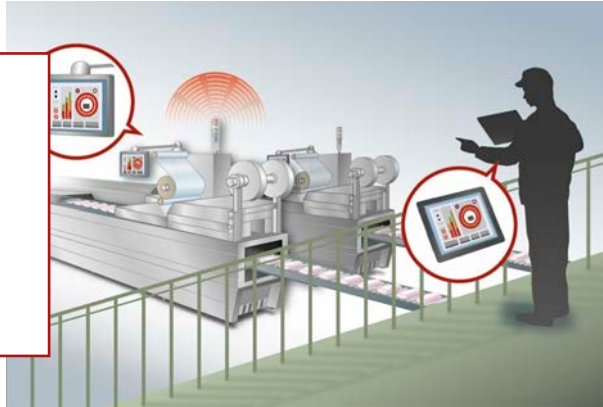
Reduce work hours and costs required for building systems



PLCs FC6A

2

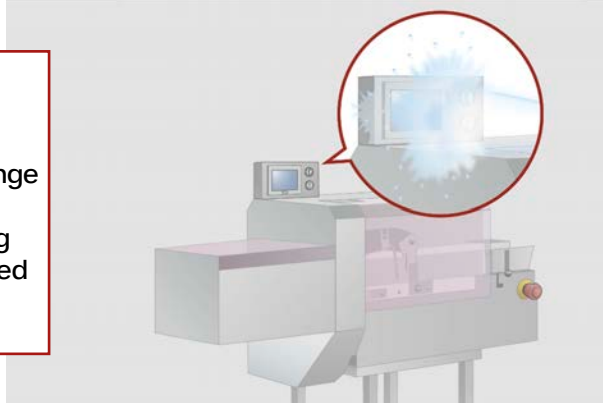
New benchmark for small display devices



Operator Interface
HG2J

3

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



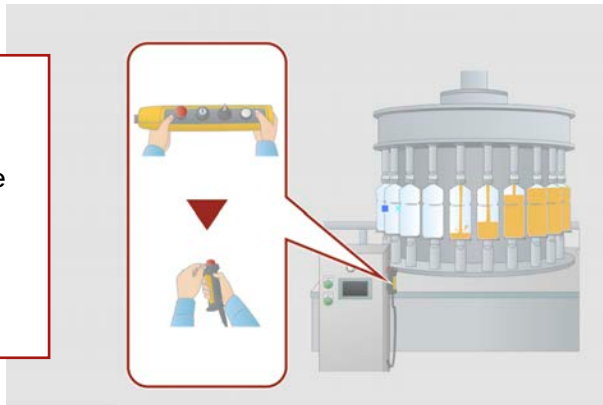
Piezo switches
PBA



Operator Interface
HG1G

4

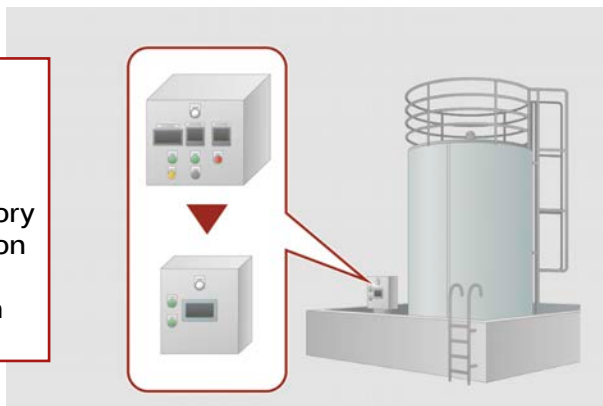
Prevent repetitive strain injury (RSI) with light action pendent control



Grip switches
HE2G

5

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



Controllers
FT1A



IDEC Smart relays
FL1F

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.



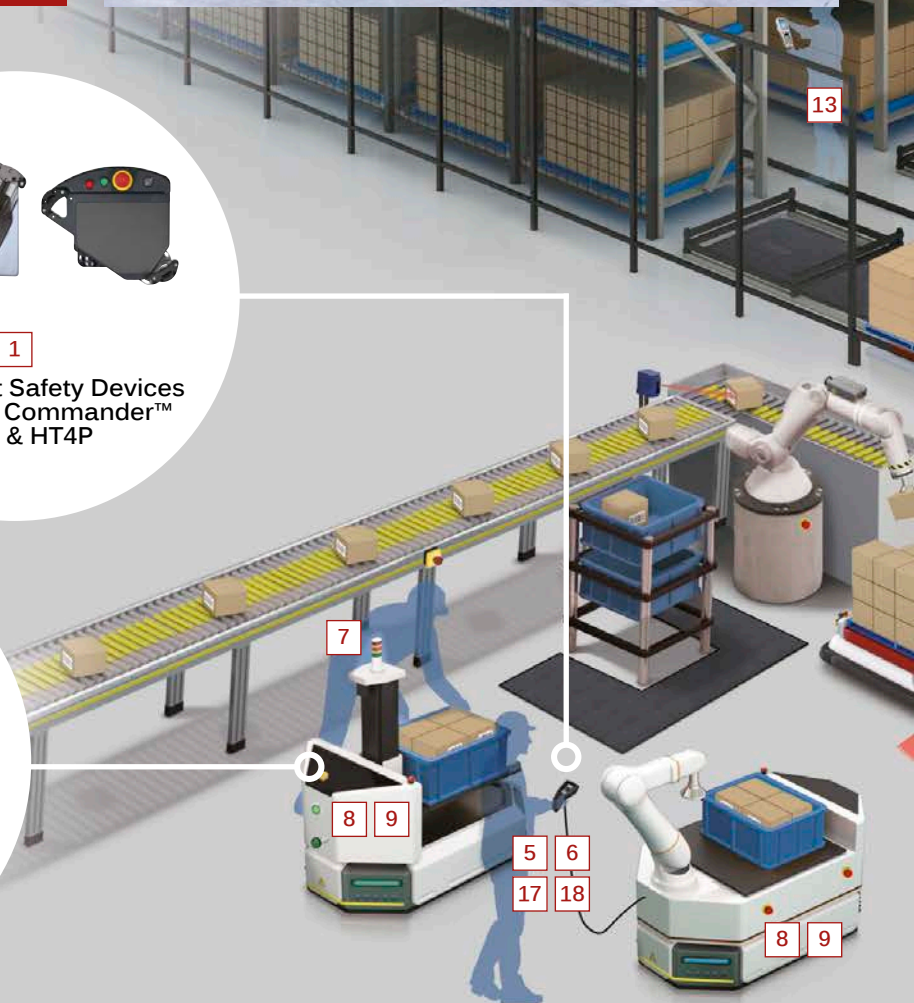
1

Tablet Mount Safety Devices
IDEC Safety Commander™
HT3P & HT4P



10

Emergency Stop Switches
XA/X6/XW/XN Series



Safety
Products
that ensure
the Safety
of Workers



5

Operator Interface
Handheld Model HG1P



6

Enabling Switches
HE*B



7

LED SignalLight Towers
LD6A

Control
the hazard
and reduce
risks



2

Safety Laser Scanner
SE2L



3

Safety Switches
HS5L/HS5E-K



4

Safety relays module
HR6S



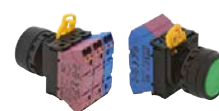
21

Safety edge switches
E30BK1 & E22BK1

Products to enhance efficiency in automation



11 Flush Silhouette
Switches
CW Series



12 Push-in Switches
& Pilot Lights
YW Series



13 Illuminated Buzzer
Pilot Lights HW1Z



14 Pilot Lights
LH1D/Q Series



15 Pushbuttons
LB/LBW/AV/I/ES Series



16 RFID reader
KW2D series



17 Miniature Joysticks
TS/NV Series



18 Pendant Controller
PC Series



19 Programmable Controller
FC6A



20 Operator Interface
HG Series

Reduces
wiring time
and space
inside
panels



8 Circuit Protectors
NC1V



9 Slim Relay/Universal Relays
RJ/RU/RV8



TECHNOLOGIES & INNOVATION

By continually integrating new technologies and developing solutions that improve worker safety and efficiency, IDEC is positioning itself as an indispensable player in the innovation of products that combine safety and ease of use. The products and services are thus always adapted to the needs of the market and can even anticipate the current requirements.

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).

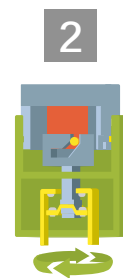
IDEC X-series switches use "Safe Break Action" a unique feature which reverses the energy direction and uses spring-pressure to guarantee that the NC contacts will open if the emergency switch is damaged or the contact blocks separate due to excessive force (patented design).

FAIL-SAFE DESIGN

Normally Closed contacts are in the open state if the contact block is not properly attached to the switch.



NC Contact Closed (On)



NC Contact Open (Off)

A COMPLETE RANGE OF E-STOPS FOR ALL YOUR APPLICATIONS



X6 series



XA unibody



XA



XW



XN1E/XN5E



XN4E

Don't miss out on such an opportunity to secure your safety system!



Learn more on our dedicated page:
idec-safety.com/e-stop



IDEC'S ORIGINAL ENABLING SWITCH

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.

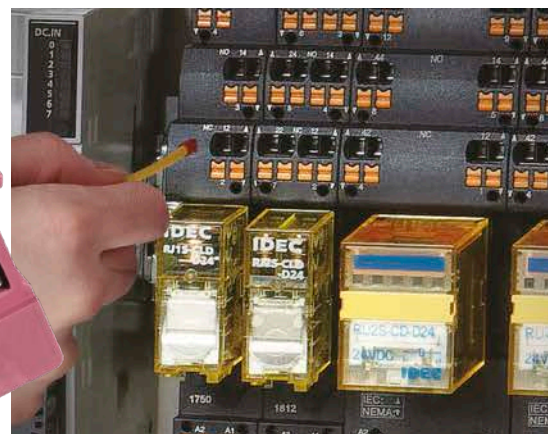
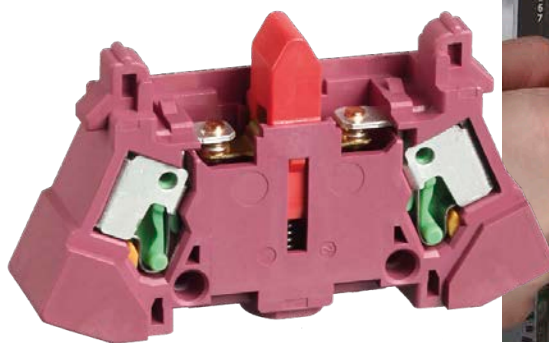
The New and unique HT3P & HT4P, deliver Safety, Information and Control in the palm of your hand. Incorporating IDEC's HE5B Enabling switch, and a XA1E Emergency-stop switch, safety is a given!

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 guarantees 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



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



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

Removing



3 Hold down the pusher with a flat-blade screwdriver.



4 While holding down the 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

Discover a whole range of equipment that, combined with PUSH-IN connection technology, will make your life easier and safer.



Learn more on our dedicated page:
idec-safety.com/push-in

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.



LUMIFA LF3D SERIES UNIFORM AND DIMMABLE LED LIGHTING

Ease visual inspection within your machine tool plus reduce operators from excess glare while improving your machining efficiency thanks to a compact LED lighting.

- Uniformed light output
- Dimming capability
- IP65, IP67, IP67G, IP69K
- Surface mount units
- M8, M12 or cable connectivity

With its robust construction, the LF3D is perfect for use within machine tools, delivering precise light to target objects and excellent optical performance without multi-shadow effect in a smaller and lighter format compared to conventional products.



FLUSH SWITCHES

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.



IDEC
EXCLUSIVE

LBW SERIES

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 |
| | 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 |
| | IP65 | IP65, IP67 | IP65 | IP65 |
| ILLUMINATED | Yes | No | Yes | Yes |
| | 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 |
| | Modular product | Modular product | Separable blocks | Separable blocks |
| RATING | Heavy duty (up to 10 Amps) | | Light duty (gold-plated or silver contacts, up to 5 Amps) | |



| | LBW | LBW | LW flush | LW flush |
|-------------|--|-----------------------|--|----------------------------|
| TYPE | Pushbutton / indicator | Keylock / selector | Pushbutton / indicator | Keylock / selector |
| | 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 |
| | IP65 | IP65 | IP65 | IP65 |
| ILLUMINATED | Yes | No | Yes | Yes |
| | 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 |
| | Separable blocks | Separable blocks | Separable blocks | Separable blocks |
| RATING | Light duty (gold-plated or silver contacts, up to 5 Amps) | | Light duty (gold-plated or silver contacts, 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.



IDEC
EXCLUSIVE

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 |
| | 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 |
| | IP65 | IP65 | IP65, IP66 | IP65 | IP65 |
| ILLUMINATED | Yes | No | No | Yes | Yes |
| | 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 |
| | Modular product | Modular product | Monobloc | Separable blocks | Separable blocks |
| RATING | Heavy duty (up to 10 Amps) | | Heavy duty (up to 10 Amps) | Light duty (gold-plated or silver contacts, up to 5 Amps) | |



| | HW | HW | HW | TW | TW |
|-------------|-----------------------------------|-----------------------|-----------------------|----------------------------|-----------------------|
| TYPE | Dual pushbutton | Pushbutton selector | Mono-lever | Pushbutton / indicator | Keylock / selector |
| | 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 |
| | IP65 | IP65 | IP65 | IP65 | IP65 |
| ILLUMINATED | Yes | No | No | Yes | Yes |
| | 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 |
| | Modular product | Modular product | Modular product | Modular product | Modular product |
| RATING | Heavy duty (up to 10 Amps) | | | Heavy duty (up to 10 Amps) | |

MINIATURE & COMPACT SWITCHES

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



IDEC
EXCLUSIVE

A SERIES FITS ALL APPLICATIONS!



COMPACT, WITH UNCOMPROMISING MECHANICAL LIFE

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



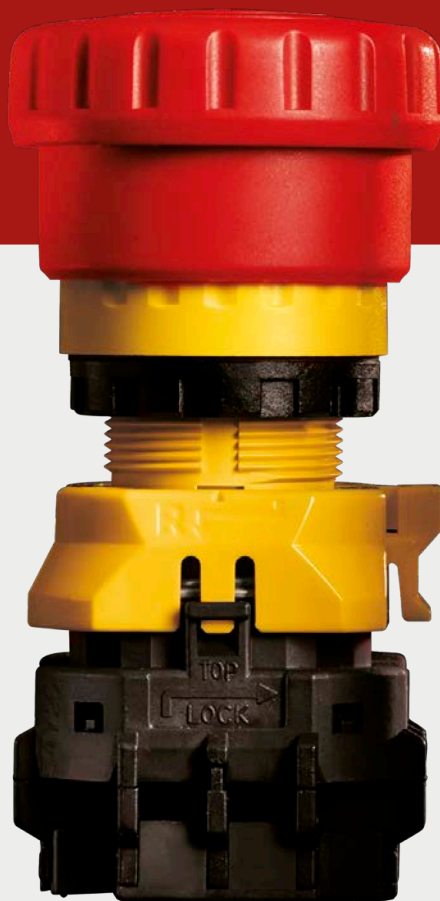
| | LB | LB | A6 | A6 |
|-------------|--|-----------------------|-------------------------|-------------------------|
| TYPE | Pushbutton / indicator | Keylock / selector | Pushbutton / indicator | Keylock / selector |
| | UL, CSA, TUV, CE, CCC | UL, CSA, TUV, CE, CCC | UL, CSA, CE, CCC | UL, CSA, CE, CCC |
| POLES | Up to 3 | Up to 3 | Up to 2 | Up to 2 |
| | IP65 | IP65 | IP65 or IP40 | IP65 or IP40 |
| ILLUMINATED | Yes | Yes | Yes | No |
| | 16 mm | 16 mm | 16 mm | 16 mm |
| TERMINAL | Solder/tab or PCB | Solder/tab or PCB | Solder/tab or PCB | Solder |
| | Separable blocks | Separable blocks | Monobloc | Monobloc |
| RATING | Light duty (gold-plated or silver contacts, 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 |
| | UL, CSA, CCC | UL, CSA, CCC | UL, CSA, CCC |
| POLES | Up to 2 | 1 | 1 |
| | IP65 or IP40 | IP40 | IP40 |
| ILLUMINATED | Yes | Yes | Yes |
| | 12 mm | 10 mm | 8 mm |
| TERMINAL | Solder | Solder | Solder |
| | 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.



IDEC
EXCLUSIVE

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



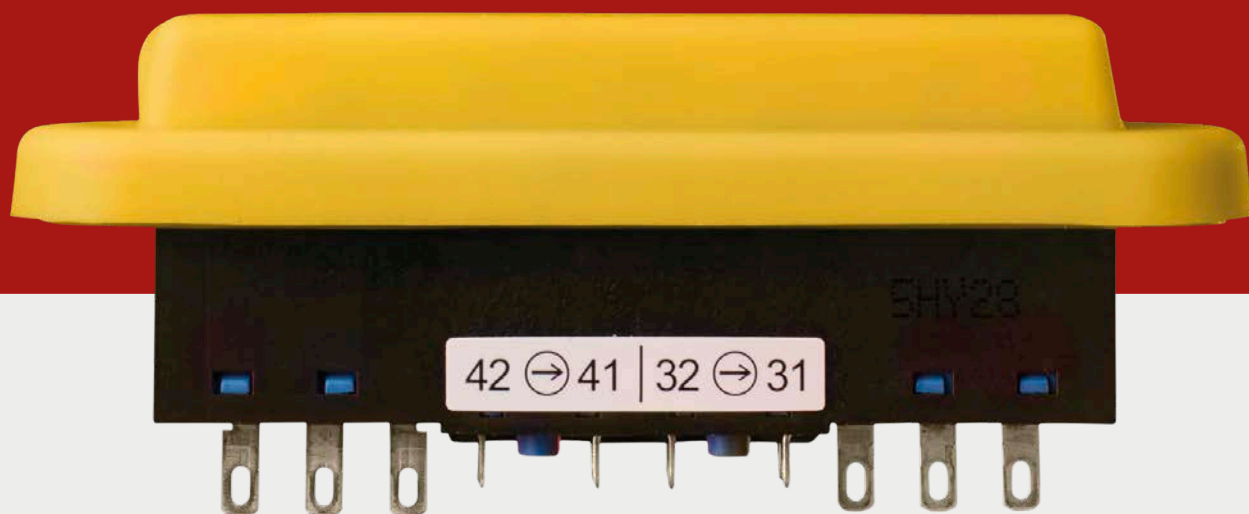
| | X6 | XA - UNIBODY | XA | YW |
|-----------------------|-------------------------------------|----------------------------|----------------------------------|---|
| | Smooth head | | | |
| SAFE BREAK TECHNOLOGY | Yes | Yes | Yes | No |
| PANEL HOLE SIZE | 16 mm panel hole | 16 mm panel hole | 16 mm panel hole | 22 mm panel hole |
| OPERATOR SIZES | Ø 30 mm, Ø 40 mm | Ø 29 mm, Ø 40 mm | Ø 29 mm, Ø 40 mm | Ø 40 mm |
| NUMBER OF CONTACTS | up to 2 NC: 1,2 / NO: 0 | up to 2 NC: 1,2 / NO: 0 | 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, turn or pull to reset | | | |
| ILLUMINATION | | | Yes | Yes |
| CERTIFICATIONS | | | | |



| | HW | XW | XN1E/XN5E | 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 | |
| CERTIFICATIONS | | | | | |

ENABLING SWITCHES

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



IDEC
EXCLUSIVE

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



CERTIFICATIONS



*Approximate force, without the rubber boot.



| | HE1G-L | HE2G | HE9Z |
|--------------------------|--------------------|--------------------------------|--------------------|
| STYLE | Palm-grip | Palm-grip | Thumb-grip |
| CONTACT | | | |
| 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 |
| ACCESSORIES | | | |
| A CABLE GLAND | Included | Included | Included |
| HANDSTRAP | No | Optional, HG9Z-PS1 | No |
| MOUNTING BRACKET | Optional, HE9Z-GH1 | No | Optional, HE9Z-GH1 |
| CERTIFICATIONS | | | |

**Possibility to combine an interlock switch to have an automatic/manual mode - see HS5 series datasheet.

SAFETY PRODUCTS

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.



IDEC
EXCLUSIVE

SE2L 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
- DUAL PROTECTION ZONE INCLUDING DUST CONTAMINATION WARNING

INTERLOCK SWITCHES



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



FS1A

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

SAFETY RELAY MODULES



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.

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.

NON-CONTACT INTERLOCK SWITCHES



HS7A

Compact size and easy positioning.



HS3A

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

SAFETY EDGE SWITCHES



E30BK1 & E22BK1

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

ACTUATORS



Door Handle

Locks rattling doors smoothly and securely.



Slide Handle

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

SAFETY LASER SCANNER



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.

SENSING PRODUCTS

IDEC offer a standard line of photoelectric sensors for reliable object detection, and unique contrast detection and proximity sensors.



IDEC
EXCLUSIVE

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

PHOTOELECTRIC SWITCHES



SA2E

Simple, compact design for world-wide usage with six sensing methods.



SA1E-L

Class 1 laser with fastest response in its class. Reliably detects fastmoving 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 24-240 V AC and 12-240 V DC. DC power types operate on 12-24 V DC. Four sensing methods (through-beam, polarizedretroreflective, diffuse-reflective, and background suppression).

RFID TAG READER



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.



WB1F

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

LED LIGHTING & SIGNALLING

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



IDEC
EXCLUSIVE

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 | X | | |
| SOUND PRESSURE | 70 to 90 dB | 90 dB Min at 0.1 m (24 V) 84 dB min at 0.1 m (12 V) | | |
| MOUNTING OPTIONS | | | | |
| MOUNTING | 5 | 1 | 1 | 1 |
| SURFACE | X | | X | |
| BUSHING DIAMETER | | 22 mm | | 22 mm |
| TERMINAL OPTIONS | | | | |
| SCREW | | | | X |
| PUSH-IN TERMINALS | | X | | |
| WIRE | UL1007 | | UL20276 | |
| SEALING | Steady: IP65 Steady/Flashing/Alarm: IP54 Pole mount: (w/o L-shaped bracket) IP54 (with L-shaped bracket) IP23 | Panel Front: IP65 (IEC 60529) Terminal: IP40 (IEC 60529) With boot: IP54 (IEC 60529) | IP67 | IP65 |
| STANDARDS | | | | |
| CE | X | X | X | X |
| | X | X | X | X |
| TUV | | | X | X |

LED LIGHTING & SIGNALLING

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

IDEC
EXCLUSIVE

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





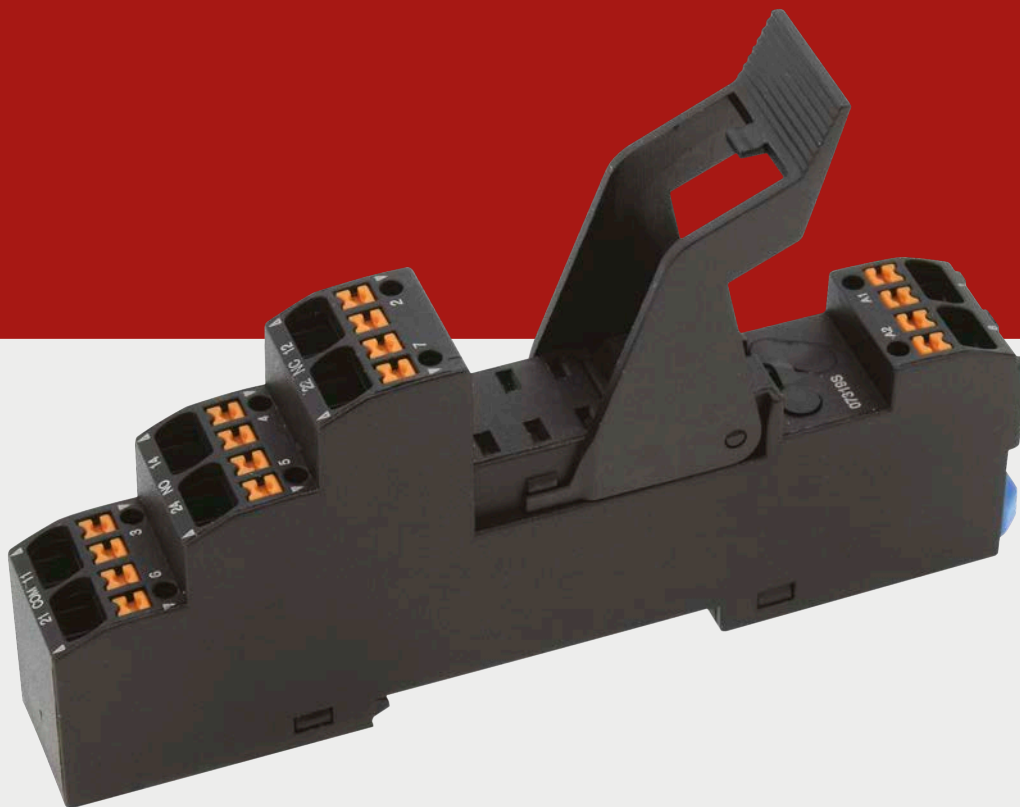
| LF1B-N | LF2B | LF1D | LF3D |
|--|---|---|---|
| Available in six lengths, two lens covers and six distinct colors, this range provides a flexible lighting solution for multiple applications. | Slim, compact surface mount LED units with universal input and excellent visibility. | Optimal lighting solution with rugged construction and high brightness levels. | Designed to be strong, reliable, and energy-efficient for machine tools applications. |
| Plant Equipment Test Equipment Food Processing Machines Show Cases Photosensitive Material Darkroom Experiments Advertising Displays Work Station and Task Lighting | Control Panels Food and Packaging Pharmaceutical Plants Printing Various Machines and Systems Work Station and Task Lighting | CNC Machine Tools Processing Machines Pharmaceutical/Chemical Production Systems Test Equipment | CNC Machine Tools Processing Machines Pharmaceutical/Chemical Production Systems Test Equipment |

| | LF1B-N | LF2B | LF1D-C | LF1D-H | LF1D-J | LF3D-SB | LF3D-FB |
|--------------------------------|--|-----------------------------|-------------------------|-------------------------|-------------------------|--|-------------------|
| PROTECTION CLASS | IP65 | IP65 | IP67 IP67F* IP69K | IP67 IP67F* IP69K | 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 | 4,700 K | 4,700 K | 5,700 K | |
| COLOUR OPTIONS | Cool White Warm White Blue Yellow Red Green | Cool White | Cool White | Neutral White | Neutral White | Cool White | |
| POWER CONSUMPTION | Between 1.0 W & 17.3 W | Between 2.2 W & 15.9 W | 4.6 W | 18.4 W | 27.6 W | 9.2W | 9.2W |
| OPERATING VOLTAGE | 24V DC | 12/24V DC 100 to 240V AC | 24V DC | 24V DC | 24V DC | 24V DC | 24V DC |
| REFERENCE ILLUMINATION | Between 10 lx & 1,350 lx | Between 10 lx & 1,350 lx | 180 lx | 560 lx | 840 lx | 1800 lx (standard distribution) 1000 lx (diffused distribution) | |
| DIMMING CAPABILITIES | | | | | | X | X |
| MOUNTING | | | | | | | |
| SURFACE | X | X | X | X | X | X | |
| RECESS | | | | | | | X |
| COVER | | | | | | | |
| CLEAR | X | X | | | | | |
| WHITE | X | X | | | | | |
| LENS MATERIAL | | | | | | | |
| REINFORCED GLASS/CLEAR | | | X | X | X | X | X |
| POLYCARBONATE | X | X | | | | | |
| REINFORCED GLASS / DIFFUSED | | | | | | X | X |
| UNIFORM | | | | | | X | X |

* Reinforced glass model

DIN-RAIL & PANEL PRODUCTS

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.



IDEC
EXCLUSIVE

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

RELAYS



RV8H

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.



RJ

Compact and rugged power relays. Large contact ratings.



RU

Full featured environment-friendly, 2 Pole - 10 A, 4 Pole - 6 A relays. No lead or cadmium used.



RL

This power relay ensures stable operation even when voltage drops momentarily. Single pole rated at 30A, double pole at 25A.



RF2

2-pole force guided relay to reduce cost and installation space. Two terminal styles - socket mounting and PC board mounting.

SOCKETS

TIMER



SJ

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



DF

This finger-safe socket accepts the same marking plates as the RU series relays, allowing for easy identification of circuits.



**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

CIRCUIT PROTECTORS



PS5R-V

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



PS6R

High-power and space-saving switching power supplies. 93% efficiency reduces running costs.



NC1V

IDEC's unique spring-up, fingersafe terminals reduce wiring and labor.



NH/NR

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

AUTOMATION PRODUCTS

Whether it is system flexibility, space saving, ease of maintenance or powerful programming features, for programmable logic controllers or Bright LCD touch screens deliver crisp images, with powerful configuration tools: to enhance your Human Machine Interaction, IDEC will exceed your expectations!



IDEC
EXCLUSIVE

FC6A / FC6A PLUS SERIES, PLC/CONTROLLER

- POWER, PERFORMANCE & CONNECTIVITY
- IIOT THROUGH ETHERNET (INCLUDING WEB SERVER, FTP CLIENT/ SERVER & EMAIL FUNCTION)
- PID FUNCTION
- WIRELESS COMMUNICATION VIA BLUETOOTH CONNECTIVITY
- UP TO 2060 I/O
- FAST PROCESSING AND REFRESH RATE

PLC/CONTROLLER



FC6A Plus /All-in-One

FC6A Plus is ideal for controlling not only large-size machines, but also entire small-size 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.



FT1A Touch

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

OPERATOR INTERFACE



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 LED backlight. 700 cd/m² (10.4-inch), 600 cd/m² (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.



HG2G (5.7")

Excellent visibility of 800 cd/m² with highly bright LED backlight. Withstands harsh environments, and suitable for use in a wide temperature range from cold to hot environment.



HG1G (4.3")

Bright and true-to-life display. Quick 1.5-sec startup, and suitable for use in environments with wide temperature range, and also powerful water jets or temporary submersion in water.

REMOTE CONTROL PENDANT



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 Emergency-stop switch.



HG1P

Hand-held operator interface with a 4.3" touch screen. Simple configuration using the IDEC Automation Organiser WindOIN-V4 programming software and Integrated Ethernet and Serial (RS232&RS485) communication.

ETHERNET SWITCHES AND CONNECTIVITY



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.

IDEC SMARTRELAY



FL1F

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



22 FACTORIES



75 YEARS OF EXPERIENCE



3,900 EMPLOYEES WORLDWIDE



100 000 + REFERENCES

EMEA SALES & CUSTOMER SUPPORT

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