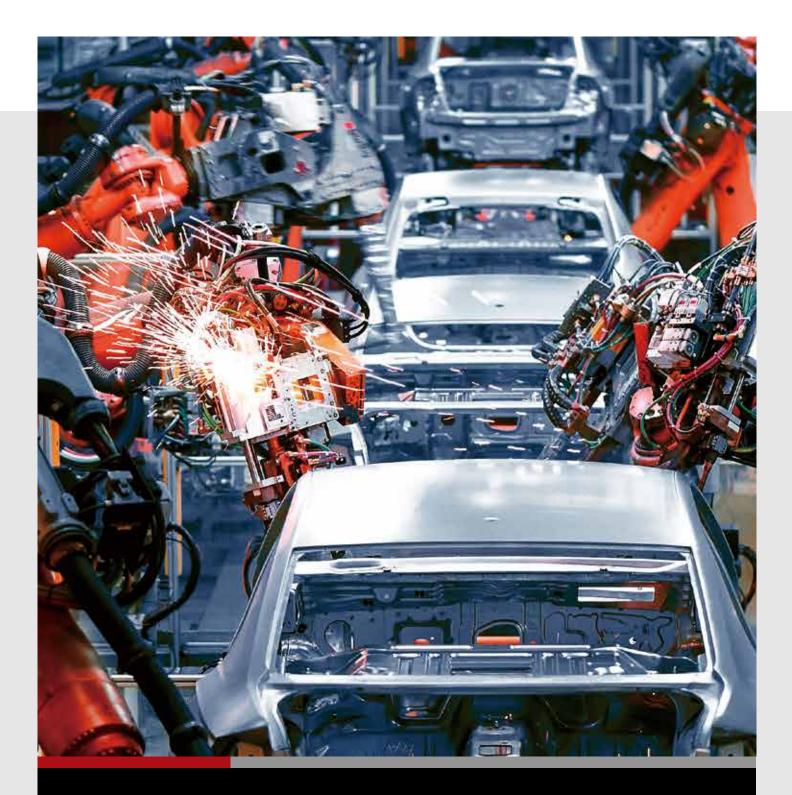


Think Automation and beyond...

AUTOMOTIVE Industry Solutions

111

IDEC CORPORATION



AUTOMOTIVE INDUSTRY

In automotive and auto-parts manufacturing, both productivity and safety are essential. As a steadfast supplier to the automotive industry, IDEC combines both its technology achievements and customer experience insights to develop the most reliable products. For decades, IDEC has provided a variety of product solutions that meet the diverse demands of our customers. As the auto industry continues to evolve at an accelerated pace, we will embrace new challenges and offer more products that can deliver added value to our customers.

IDEC's Commitment to the Automotive Industry

ENHANCING PRODUCTIVITY AND SAFETY

The IDEC Group has spent many years examining trends and solving challenges in the automotive industry. We supply a variety of product groups required in manufacturing processes, from press to bodies, engines, and transmissions. We thoroughly observe all safety procedures, especially in environments where people and machines coexist. As a company aiming to pursue the most advanced safety and security technologies in the world, IDEC will continue to contribute to improving the safety and productivity of workers.

FOR SAFER AUTOMOTIVE MANUFACTURING NEXT-GENERATION CONCEPT "SAFETY2.0"

As the era of collaboration between people, machines, and robots is in full swing for automotive manufacturing equipment, the IDEC Group is promoting the next generation safety concept Safety2.0. Until now, we have increased the level of safety by making machines safe and eliminating areas where people and machines coexist. However, with Safety 2.0, people, things, and the environment are instead coordinated in order to maintain a high level of safety in areas where people and machines coexist. Building on the concept of Safety2.0, the IDEC Group will continue to provide higher value-added services to customers, including proposing flexible, safe, and highly productive automotive manufacturing systems, and consulting on safety measures for collaborative robot systems.

SERVING AUTOMOTIVE PRODUCTION PLANTS AND MANUFACTURING FACILITIES AROUND THE WORLD

In addition to delivering unique products to automotive production plants and manufacturing facilities around the world in a timely manner, IDEC provides local in-person and online support in multiple languages to our customers in all regions.





Innovative solutions for the evolving automotive industry







Emergency Stop Switches X Series



Force Guided Relays RF1/RF2



8

14

Safety Laser Scanners SE2L



Operator Interface Handheld Model HG1P



Interlock Switches/Interlock Switches with Solenoids HS5D/HS5L



Tablet Mount Safety Device

Safety features (emergency stop switch / enabling switch) made available to commercially available tablets for use as a remote controller or teaching pendants

The device can hold 8 to 11-inch tablets with flexible mounting depending on the required display size.

Emergency stop switch located in an easy-to-operate position. Pivoting mechanism allows the tablet to be used vertically or horizontally.

Ergonomic grip design ideal for long and **fatigue-free** operation.



*) The tablet must be purchased by the user.

Product Name	Operating Temperature	Operating Humidity	Degree of Protection	Supported Tablet Size	Supported Tablet Thickness	Switches
Safety Commander	-20 to +55°C, (-20 to +35°C (*1))	45 to 85% RH	IP54	8 to 11 inches	Up to 24mm	Emergency stop switch: XA1E-LV302Q4R Enabling switch: HE5B-M2PY
• The data above does incl	uda tablata					

*1) USB power supply

Safety added to tablets for robot operation

BEFORE No access to safety controls when tablets are used.

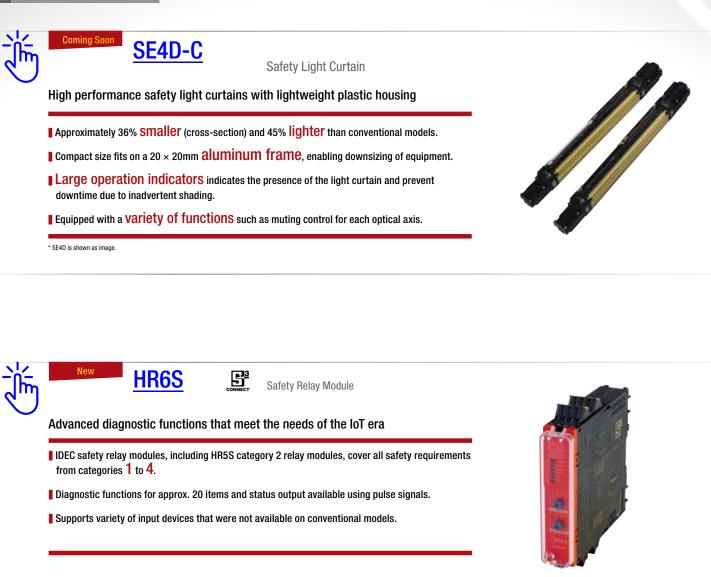
AFTER

Reliable safety control is readily available, making teaching safer in hazardous areas.

Emergency stop switch and enabling switch are easily accessible while holding the tablet with one hand.



New Products



Coming Soon SA2E

Miniature Photoelectric Switches

Standard size with full range of functions in a compact package

- Industry standard 25.4mm-size for installation.
- Light On / Dark On switching available to reduce maintenance parts inventory and make on-site setting changes possible.
- 3 diffuse reflective models available according to distance (1000mm, 500mm, 100mm) for flexible installation.
- QR codes are printed on the products, enabling easy access to **Operating instructions** from smartphones.



New Products



Smart user authority control and log management with RFID

Standard Ø22mm panel cut-out enables easy installation.

- Device equipped with Verification function. Easy tag registration using a software program.
- Ethernet communication (Modbus TCP, EtherNet/IP and IO-Link) allows easy and flexible integration.
- Suitable for battery production lines (copper-free products) (*1)

*1 Condition: Material used on the surface of the product does not contain copper. (Does not apply to the inside of the product) Contact IDEC for details.





Product Name	Model	Rated Input Voltage Power Consumption	Operating Temperature	Degree of Protection	RFID Interface Specifications	Support Card	ed Tags KEYFOB
KW2D	Without holder: KW2D-R100Q4E With holder: KW2D-RH100Q4E	24V DC 2.4W max.	-25 to +55°C	Front unit: IP65F/67F Back unit: IP20	ISO/IEC14443 Type A (Type A), ISO/IEC18092 (Type F), JIS X6319-4 (Type F), ISO/IEC 15693 (Type V)	ISO/IEC14443 Type A, ISO/IEC18092, JIS X6319-4, ISO/IEC15693	ISO/IEC14443 Type A

Recordkeeping and authorization management for operators

BEFORE

Do not know when and who was involved in the production process

AFTER

History log of operators enables detailed authorization management.

An RFID reader is mounted on an operation panel with ø22mm panel cut-out. The reader is then used to register workers and authenticate their ID.



HW/CW Series Push-In Switches & Pilot Lights CONNECT Push-in terminal reduces wiring time Single LED reduces spare parts Push-in terminals enable easy wiring without special skills. Up to 55% less wiring time compared to conventional screw terminals. Reduces downtime during manufacturing and maintenance (*1). A single LED light source for 6 colors, reducing spare part count. Suitable for battery production lines (copper-free products) (*2). Time saving & efficient Reduces wiring time *1 Based on IDEC research. *2 Excluding key selector switches. Condition: Material used on the surface of the product does not contain copper. (Does not apply to the inside of the product) Contact IDEC for details. Six different colors with a single LED PW G S R Pure White Rec Yellow Blue Green Connection is completed. Pull lightly to Push the wire straight in as far as it Six different will go. make sure it is firmly in place. color lenses Approx. 55% reduction Push-in connections are made Push-in simple by inserting the **HW Series** wire, reducing wiring time by Conventional approximately 55% compared One LED screw terminals to conventional screw terminals. * Based on IDEC Product Name IP Rating CSA TÜV Rated insulation voltage: 600V Rated current: 10A

CW *1 Dual pushbuttons: IP40

HW

Ø22

Ø22

Application: Operation panels

IP65 (*1)

IP65

• . •

• .

Rated insulation voltage: 300V Rated current: 10A

• .

•

Using push-in technology to improve the efficiency of wiring work

Ø30

Ø30

.



Automotive Industry Solutions

HMI Solutio



Relays & relay sockets for high perfomance and usability

Push-in connections reduce wiring time by 55% (*1).

RJ relays with high contact current and Slim design (12.7mm) achieve downsizing of control panels.

Push-in connections eliminate tightening of screws during maintenance.

*Based on IDEC research.



*1 Compared to conventional screw terminals (Based on IDEC research).

Time Saving & Efficient Save up to 55% in wiring time Wiring time greatly reduced compared with conventional screw terminals. Push-in type SJ Series

Conventional screw terminals

Reduce maintenance work Push-in terminals eliminate the need for torque maintenance such as tightening of screws because screws are not used.



Safe & easy

Equipped with release lever The release lever easily holds and removes the relay.



						Compatible Sockets		Inte	ards		
		Product Name	Allowable Contact Current	Contact Material	Push-in	Screw (standard type)	Screw (Finger-safe protection)	UL	CSA	TÜV (VDE)	CE
	RJ -	RJ1S (1-pole)	12A	AgNi	SJ1S-21L	SJ1S-05B	SJ1S-07L	٠	•	•	•
		RJ2S (2-pole)	8A	AgNi	SJ2S-21L	SJ2S-05B	SJ2S-07L	٠	•	•	•
		RU2 (2-pole)	10A	Ag alloy	SU2S-21L	SN2S-05D	SM2S-05DF	٠	•	•	•
	RU	RU4 (4-pole-)	6A	Ag (Au clad)	SU4S-21L	SN4S-05D	SY4S-05DF	٠	•	•	•
		RU42 (4-pole) (bifurcated contacts)	3A	AgNi (Au clad)	SU4S-21L	SN4S-05D	SY4S-05DF	٠	•	•	•

Application: Control panels

Push-in technology improves efficiency



HMI Solution



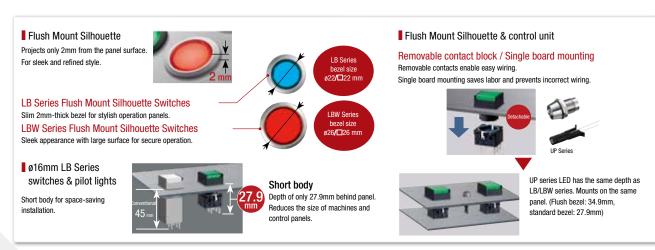
Ø18/Ø22mm Flush Mount Silhouette Switches ø16 Switches & Pilot Lights

Flush Mount Silhouette switches suitable for operation panels in small operation spaces

- Stylish design with 2mm-height bezels.
- Removable contact block makes single board mounting possible.
- Short body enables downsizing of operation panels.
- Suitable for battery production lines (copper-free products) (*1).



Condition: Material used on the surface of the product that does not contain copper. (Does not apply to the inside of the product). Contact IDEC for details.



Product Name	Bezel Diameter	Mechanical Durability	Electrical Durability	Contact Rating	International Standards UL CSA TÜV CCC CE				
LB	ø22/ Momentary: 2 million operations min. □22 mm Maintained: 250,000 operations min. Selector switch/key selector switch: 250,000 operations min.		50,000 or 100,000 operations min. (*1) (*2)	Rated insulation voltage: 250V Rated current: 5A (silver contact) 3A (gold contact)	•	•	•	•	•
LBW			50,000 or 100,000 operations min. (*1) (*2)	Rated insulation voltage: 250V Rated current: 5A (silver contact) 3A (gold contact)	•	•	•	•	•
*1) Depends on ra	ated operating cu	rrent *2) Switching frequency - 1800 operations/h: momentary 1200 operations	s/h; maintained including selector switches and	d kev selector switches					

Application: Operation panels

Stylish operation panels



Automotive Industry Solutions





Excellent design and robust structure withstands drastic temperature changes

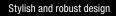
Robust, durable, and stylish metal switches.

- Low profile ideal for machine surfaces. Stainless steel structure prevents corrosion.
- Operating/storage temperature of -30 to +85°C, suitable for harsh environment.



Product Name	Mounting Hole Size (mm)	Output	Electrical Durability	Mechanical Durability	IP Rating
AV	ø16 to ø30	Contact	500,000 operations	1 million operations	IP65/IP67/IP69K

Application: Battery charging equipment





LED Equipment

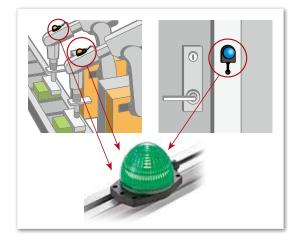


LED indicators for flexible mounting

Mounts on robots, AGVs, and various processing equipment.

- Available in a Wide Selection of variations, such as flat, dome, ø66mm dome, 2-color switching, and 3-color switching.
- IP67 protection for use in harsh environments.





Product Name		Color Variations	Cable Length	Rated Voltage	IP Rating	International Standards					
	FIGUUCT Name		Cable Lengui	naleu vollaye	ir naung	UL	CSA	TÜV	CE		
	LH1D	Single color/ 2-color switching/ 3-color switching (*1)	Cable type: 1m, 3m, 5m M12 connector type (*1): 30cm	Cable type: 24V AC/DC M12 connector type(*1): 24V DC	IP67	•	•	•	•		
	*1 Large dome type only										

Application: Status displays on various machines and collaborative robots





Ergonomic emergency stop switches for staying one step ahead to ensure safety



- Reverse energy structure and Safe Break Action minimize the possibility of safety failures.
- E-stops can be reset by turn reset or pull reset, preventing failure caused by incorrect reset operation.
- Padlockable e-stop available for XN Series, providing workers with the next level safety.
- Suitable for battery production lines (copper-free products) (*1).

Safe Break Action

Operato

Contact block

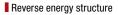
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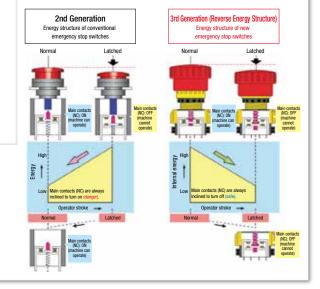
When the contact block is detached from the operator, the cam directly opens the NC

main contacts (contacts are off). (Patented)

When the contact block is detached from the operator, the NC contact opens (OFF). 2



With X series, the potential energy level of the latched status is lower than that of normal status. In the event the switch is damaged due to excessive shocks, the NC contacts will turn off, thus stopping the machine (patented design).



	Mounting Hole Size	Head Size		Te	erminal Typ						Internat	ional Sta	andards	5
Product Name	Hole Size (mm)	(mm)		Solder/ tab	PC Board	M3 Screw	Connector	IP Rating	Rated Current	UL	CSA	TÜV	ссс	CE
XN	ø30.5	ø40 ø44 ø60				•		IP65	Gold plated silver/crossbar contacts: 5A (30V DC/125V AC/250V AC)		•	•	•	•
XW	ø22.3	ø40 ø60	٠		•	•	•	IP65 IP67	Gold plated silver/crossbar contacts: 5A (30V DC/125V AC/250V AC)(Con- nector type: 2.5A)		•	•	•	•
XA (removable contact block)	ø16.2	ø30 ø40	٠		•			IP65	Gold plated silver/crossbar contacts: 5A (30V DC/125V AC/250V AC)	•	•	•	•	•
X6	ø16.2	ø30 ø40	•	•				IP65	Gold plated silver/crossbar contacts: 5A (30V DC/125V AC/250V AC)	•	•	•	•	•

Application: Operation panels

Next level of safety with padlockable e-stops



^{*1} Does not include XN series flush bezel or padlock type

Copper-free types available for XN Series padlock type. Condition: Material used on the surface of the product does not contain copper. (Does not apply to the inside of the product) Contact IDEC for details.



Compact safety sensors for collaborative robots

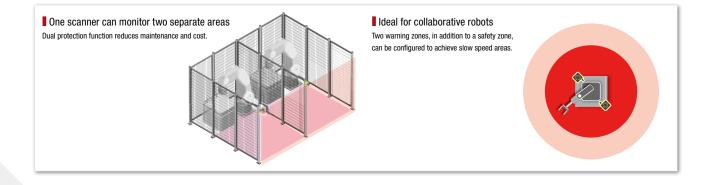
- Area protection and access protection functions enable flexible construction of a safe robot system.
- Low-speed and stop areas can be configured individually to achieve productivity and safety.
- SE9Z-* connection box reduces maintenance time and wiring (*1).

*1 Available soon.





SE9Z connection box



Product Name	Cafatu Catagonu	Performance Level	Detection Characteristics	Davias Cumhu Vallage		ternationa	I Standar	ds
Product Name	Safety Category	Performance Level	Detection Characteristics	Power Supply Voltage		CSA		CE
SE2L	Type 3 (IEC61496-1, IEC61496-3)	PL=d, SIL3	Protected area: Max. 5m Detection angle: 270°	24V DC $\pm 10\%$ When using converter power supply 24V DC -30%/+20%: When using battery	•	•	•	•

Application: Safety measures for robot equipment, conveyor lines, AGVs, and collaborative robots

Safety laser scanner prevents injuries





Interlock Switches/Interlock Switches with Solenoids

Compact and robust interlock switches

- Compact design for flexibile mounting.
- Head removal detection function detects contact signals even when the head comes off when actuated to ensure safety.
- Lock monitoring supports a variety of circuits with a small number of contacts (HS5L)
- Select according to application: without lock (HS5D) and with lock (HS5L)
- Suitable for battery production lines (copper-free products) (*1).



*1 Condition: Material used on the surface of the product does not contain copper. (Does not apply to the inside of the product) Contact IDEC for details.

Product Name	Mechanical Durability	Terminal Style	IP Rating	International Standards							
FIUUULI Naille	wechanical Durability	Terminar Style	IF nauliy	UL	CSA	TÜV	CCC	CE			
HS5D	1 million operations min.	Screw	IP67	•	•	•	•	•			
HS5L	2 million operations min. (Operation frequency of 900 operations/hour, actuator insertion/removal, solenoid operation) When using HS92-SH5/EH5L/DH5, 100,000 operations min. (actuator insertion/removal)	Spring clamp	IP67	٠	•	•	•	•			

Application: Interlocks for machine tools and safety fences





Door Handle Actuator/ <u>Slide Handle Actuator</u> for HS5 Series

Actuators

Shock-resistant metal handle actuator to ensure a safe work environment

- Locks firmly and easily on rattling doors (door handle actuator).
- Mounts on sliding doors/hinged doors/double doors.
- Interlock mechanism with two-step action prevents failure (sliding handle actuator).

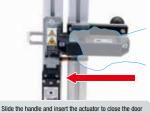
actuator.

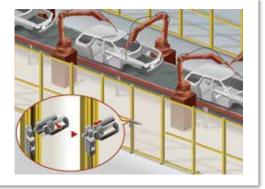
2

Failure caused by inadvertent operation and rattling doors can be prevented by the interlock switch and



Two-step action prevents inadvertent operation





	Product Name	Applicable Models (*1)	Standard Specifications	Mechanical Durability	Fit Padlock Shackle Diameter
	Door handle actuator for HS5 Series	Without lock: HS5D interlock switch With lock:HS5L interlock switch with solenoid HS5E-K interlock switch with key	Operating temperature: -25 to +70°C (no freezing)	100,000 operations min.	ø6 to 7.5
	Sliding handle actuator for HS5 Series	Without lock: HS5D interlock switch With lock:HS5L interlock switch with solenoid HS5E-K interlock switch with key	Operating temperature: -30 to +70°C (no freezing)	100,000 operations min.	ø6 to 13
,	*1 For HS5L/HS5E-K/HS5E, I	use the rear lock release button model.			

Application: Interlocks for safety fences

Prevent downtime caused by door interlock failures

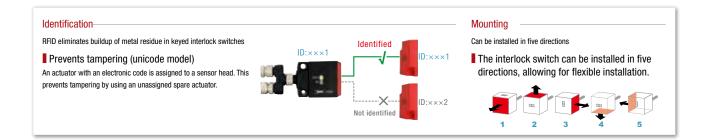












Product Name	Safety Category	Performance Level	Туре	Terminal Style	IP Rating	International Standards
HS3A	Category 4	PLe	"Type 4" or levels of coding "high"	M12 connector	Body: IP67, Actuator: IP67, IP69K	EN60947-5-3 (IFA approval) EN954-1, EN ISO13849-1, EN62061 GS-ET-14 (IFA approval) UL508 (UL listed) CSA C22.2 No.14 (c-UL listed)

Application: Interlocks for machine tools and safety fences





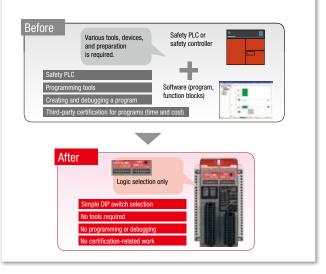
Pre-programmed to easily build a safety system

- Equipped with 35 safety circuit logics for immediate use.
- Compliant with IS013849-1 PLe.
- No need for programming; simply use the DIP switch to **Select** a built-in **logic**.
- Complies with international safety standards when connected to safety input/output devices.
- Various functions integrated into one device.



Selecting a logic—that's all you need!

SafetyOne lets you configure a system without any programming. Complies with international safety standards when connected to safety input/output devices.



Product Name	SIL / PL / Category	Operating Voltage	Power Consumption	Safety Input/Output Points	International Standards				
FIUUUGI Maille	SIL / FL / Galegury	Operating voltage	rower consumption		UL	CSA	TÜV	CE	
FS1A	IEC61508 Safety Integrity Level 3, ISO13849-1 Performance Level e, ISO13849-1 Category 4	24V DC	48W	Safety inputs: 14 Safety outputs: 4	•	•	•	•	

Application: Safety measures for small devices

Reduce total cost and simplify system wiring





Force Guided Relays

Compact forced guided relays help reduce installation space

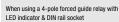
- Force guided contact mechanism (EN50205 Type A TÜV certification)
- Pioneering 2-pole force guided relay (*1).
- Multiple contact configurations available for various circuit design. 4-pole (2NO-2NC, 3NO-1NC) 6-pole (4NO2NC, 5NO1NC, 3NO3NC) (*2) 2-pole (SPST-NO+SPST-NC, DPDT) (*1)
- Shock resistance exceeds 200m/s².

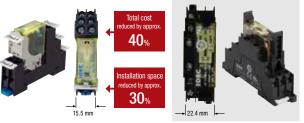
*1) RF2 *2) RF1

DIN rail sockets with finger-safe protection, and PC board sockets available.



Using RF2S-1A1BLD1-D24 & DIN rail socket





*Compared to IDEC products. Total cost refers to the cost for relays and sockets.

Product		Contact Rating	Power	Electrical Durability	Mechanical Durability	International Standa				
	Name RF1	Rated load: 250V AC/6A, 30V DC/6A Allowable contact power:1,500VA AC, 180W DC (30V DC max.) 85W DC (30V DC to 125V DC max.) Allowable contact voltage: 250V AC, 125V DC Allowable contact current: 6A	Consumption Approx. 0.36W (4 poles) Approx. 0.50W (6 poles)	100,000 operations min. at 250V AC/6A resistance load 100,000 operations min. at 30V DC/6A resistance load (operating frequency: 1200 operations/hour)	10 million operations min. (operating frequency 10,800 operations/ hour)	•	CSA •	τüv		
	RF2	Rated load:NO contact: 240V AC/6A, 24V DC/6A NC contact: 240V AC/3A, 24V DC/3A Allowable contact power:NO contact: 1440VA/144W NC contact: 720VA/72W Allowable contact voltage: 250V AC, 125V DC Allowable contact current: 6A	Approx. 0.7W	NO contact: 100,000 operations min. (operating frequency 1800 operations/hour) at 240V AC/6A resistance load or 2A inductive load (power factor: 0.4) 100,000 operations min. (operating frequency 1800 operations/hour) with 24V DC/6A resistance load or 1A inductive load (time constant: 48ms)	10 million operations or more (operating frequency 18,000 operations/ hour)	•	•	•		

Application: Designing interlock control circuits for equipment

Flexible support for designing safety circuits in equipment





Operator Interface Handheld Model

Teaching or control for small dedicated devices and robots

- Lightweight and compact, weighs only 500g. Robust and drop resistant up to 1.5m to avoid damage when accidently dropped.
- Ergonomic design ideal for long and fatigue-free operation. 1.5 seconds fast start-up time.
- High resolution 4.3-inch TFT color LCD display. Clear and informative display enables intuitive operation.
- Removable cable enables cables to be detached easily when damaged. Saves downtime and cost.
- Easy maintenance with a USB memory.



Visualize teaching operation on the screen



Product Name	Rated Voltage	Power Consumption	Electrostatic Discharge	Display	Color/ Shade	Display Resolution	Bright- ness	View Angle	Backlight Life	User Memory Capacity	Interna UL	tional Star CSA	ndards CE
HG1P	24V DC	3W max. (2W when USB2 is not used)	In air: 8kV Contact: 4kV	TFT color LCD	65,536 colors	480 (W) × 272 (H) pixels	400 cd/m ²	Left / right: 80°, top: 65°, bottom: 55°	Standard 30,000 hours minimum	12MB	•	•	•

Application: Teaching for small dedicated devices and robots

IDEC solution for easy use



HMI Solutio

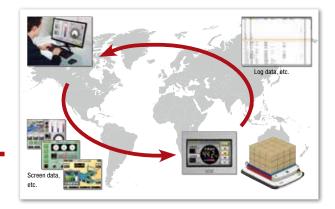


Excellent visibility and durability providing superior performance for machine operators

- **IP66F/IP67F** rated, oil resistant (*1) with optional protective sheet to protect from UV light (*2).
- WEB server function enables **remote** monitoring and operation using a PC, tablet, or smartphone.
- Data inside operator interfaces can be sent by CSV file or screenshot using the email function allowing tracing of devices, data analysis, and sending alerts to operators.
- **Remote maintenance** is possible by using the FTP server and client function to transfer project data and read history data.
- Engineered for various applications in cold and warm environment (*3).

*2 Does not guarantee use in direct sunlight although UV protection material is used. *3 Can be used within a temperature range of -20 to +55°C (HG1G), and -20 to +60°C (other models).

*1 Operation not guaranteed when used with certain types of oils.



Product Name	Screen Size	Display	Color/	Display Resolution	Brightness	Rated Voltage	Power Consumption	International Standards		
			Shade					UL	CSA	CE
HG1G	4.3-inch	TFT color LCD	65,536 colors	480 (W) \times 272 (H) pixels	800cd/m ²	12 / 24V DC	8W max.	•	•	•
HG2G-V HG2G-5T	5.7-inch	TFT color LCD	65,536 colors	640 (W) \times 480 (H) pixels 320 (W) \times 240 (H) pixels	800cd/m ² (V) 500cd/m ² (5T)	12 / 24V DC	18W max. (V) 8W max. (5T)	•	•	•
HG3G-VA / V8	10.4 or 8.4-inch	TFT color LCD	65,536 colors	1024 (W) \times 768 (H) pixels	700cd/m ² (VA) 800cd/m ² (V8)	24V DC	25W max. (VA) 22W max. (V8)	•	•	•
HG4G-V	12.1-inch	TFT color LCD	65,536 colors	1024 (W) \times 768 (H) pixels	600cd/m ²	24V DC	25W max.	٠	•	•
HG5G-V	15-inch	TFT color LCD	65,536 colors	1024 (W) \times 768 (H) pixels	650cd/m ²	24V DC	27W max.	•	•	•

Application: Operation panels / EV charging stations

Stylish and robust design



Explosion-Proof Solutions



Safety Relay Barrier (Intrinsically Safe Explosion-Proof Structure)

Used in battery production lines, alloy wheel manufacturing and painting applications

- Achieves Explosion-proof safety and machine safety in an explosive atmosphere.
- **ISO13849-1 Category 4**, Performance Level e machine safety systems can be constructed in an explosive atmosphere.
- Connected safety input devices can be used under all explosive gases and hazardous areas.

Global standards

Explosion Proof Safety Certification China: Ex-CCC, Japan: TIIS, International: PTB (IEC Ex), EU: PTB (ATEX), US: UL Machine Safety Certification = TÜV Rheinland

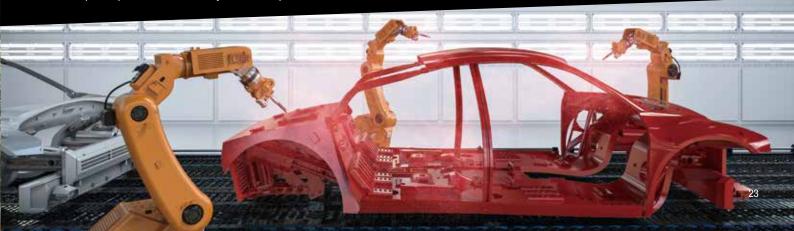


Hazardous Area	Non-hazardous Area	3	Safety Control Device	Safety Output	Safety Contactor	A safety relay module or safety controller is used to set u a safety circuit, using the reset (start) function of the safe relay module or safety controller.
Safety Input Device	EB3N-M2ND	Barrier Safety Output	Safety Contactor			The reset (start) function is used to set up a safety circu without using a safety relay module or safety controller.

Product Nam	e Safety Category	Performance Level (PL)	Safety Input	Safety Output	Rated Voltage	International Standards	Explosion-Proof Performance
			2	2N0	24V DC	Ex-CCC	[Exia] II C
						IEC-Ex	[Exia] II C, [Exia D]
EB3N	4	e				ATEX	II (1) G [Exia] II C, II (1) D [Exia D]
						UL	Class I, Zone O, [AExia] II C Class I, II, III, Div. 1, Groups A, B, C, D, E, F and G
						TIIS	[Exia] II C

Application: Painting lines, secondary battery production lines

Explosion-proof solutions backed by decades of experience



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