



**INDUSTRIAL  
CONTROL &  
AUTOMATION  
CATALOG**

*Think Automation and beyond...*



# kodawari

*\kō-dā-wō-rē\ – (noun) the uncompromising and relentless pursuit of perfection. A time-honored philosophy originating from ancient Japan, it reflects a commitment to attaining the highest degree of excellence.*

**Every detail has a purpose.** For more than 65 years, the philosophy of Kodawari has been the driving force inspiring us to design the best in industrial control products. Our meticulous attention to detail and fierce dedication to quality and safety produces products that exceed the highest industry standards.

At IDEC, we believe even a simple switch must do more than just turn a piece of equipment on or off, it must deliver an unparalleled experience. From the overall concept to the smallest detail, we want to enhance the efficiency and comfort of human interaction with our products. IDEC engineers spend years researching and testing just to develop the ideal shape, size and feel for our switches. These small, but critical improvements ensure you are satisfied every time you touch an IDEC switch.



Our enduring commitment to this philosophy has also found unmistakable expression in the sharp, crisp images and superior visibility of our operator interface touchscreens. IDEC displays are a testament to our tenacious desire to meet our customers' every need. Through diligence and hard work, we have been able to generate intense, true-to-life screens by originating a process in which a dual-screen memory buffer produces a smoother transition between screens.



In the mastery of extraordinary workmanship, we strive to manufacture superior products by exploring all the options available to us. Influenced by an architectural method used for thousands of years to build Japanese shrines and temples without nails, we designed our heavy-duty LED lighting with precision-fitted joints for improved strength and durability. The result is a more resilient product for harsh environments.



The cornerstone of our success lies in the intrinsic presence of Kodawari in all our products. Known as a pioneer in the micro PLC market, in recent years, IDEC made a bold decision to develop the fastest micro-PLC in its class. By adding a Logic Engine to our micro PLCs, we enabled them to process



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instructions faster, freeing up the main processor for additional functions like PID, complex math and communications. As we move forward, we continue to add instructions, making complex machine automation simpler for the engineers designing them. In this era of great technological change, we are dedicated to offering our customers the most innovative products.



With each generation of IDEC products, we get closer to attaining perfection. Although light towers have been available in the market for many years, traditional designs let light bleed between modules, often making it difficult to view status. We imagined a new way to see light towers—a better way. Endeavoring to try something different, we undertook the challenge of constructing an improved design by separating signaling modules and using a one-of-a-kind elliptical lens to diffuse light, increasing brightness and visibility of status. This unique approach and aesthetic style are the very essence of Kodawari.

We place the highest value on providing you with the safest products in the world, while also providing

an exceptional experience. Existing safety standards for emergency stops only protect users under normal circumstances, but are not sufficient when the emergency device itself is damaged. At IDEC, our unique “Safe Break Action” is incorporated into our Emergency Stop switches, surpassing existing safety standards and making them the safest on the market.

As IDEC moves into the future, we are dedicated to our vision of a future where people, technology, and information come together in a perfect blend. The greatest reward for our commitment and adherence to the Kodawari philosophy is a sense of fulfillment and pride, knowing that we have made a difference in the daily lives of our customers. Although perfection can never truly be achieved, for us the true reward is in the pursuit itself.



## **Kodawari—it's in our DNA**





### General Machine Lighting pg 3

- Six different lengths (134 to 1,080mm)
- Space saving: Width 27.5mm, Thickness 16mm
- Long life: Five times longer than fluorescent lamps
- Vibration and shock resistant



### General Machine Lighting pg 6

- Energy saving: One-third of fluorescent lamps
- Long life: 40,000 hours (Half-life)
- Multiple sizes and color configurations
- Rated voltage up to 24V DC



### Heavy Duty Machine Tool Lighting pg 11

- Brightest in their class at up to 67.2 Lumens/Watt
- Life: 70% of initial luminance at 50,000 hours
- Durable, stainless steel cover
- Standard or recessed mounting for lower profile



### Hazardous Location Lighting pg 21

- Explosion-proof LED illumination
- Two types of light distribution
- On/off switch for ease of operation
- Adjustable or fixed angle mounting



**OI Touchscreens** pg 27

- Super-bright, sharp LCD screens
- Up to 65K colors supported
- Remote access, monitor and control plus multimedia
- Basic and high-performance models with wide range of connectivity



**PLCs** pg 57

- Fastest micro PLC in the market
- Maximum 512 I/Os
- Embedded Ethernet and USB ports
- All models meet the highest safety standards



**Power Supplies** pg 139

- Slim, standard or metal frame
- 10W, 15W, 30W, 60W, 90W, 120W and 240W
- Convenient mounting options
- Worldwide approvals



**Sensors** pg 159

- Vision, application, universal photoelectric and proximity
- Variety of housing sizes, styles and functions
- High reliability and precision
- High-speed response times



### **E-Stops** pg 259, 525, 654

- 16mm, 22mm and 30mm
- Unique "safe-break action" technology
- Turn reset and push-pull functions built-in
- Available in both plastic or metal bezel and finger-safe contacts

### **Interlock Switches** pg 269

- Basic and solenoid locking models
- Subminiature to full-size models
- Up to 6 contacts
- Integrated cable or screw termination

### **Enabling Switches** pg 363

- Ergonomic three-position functionality
- Variety of contact configurations
- DPDT contacts
- Available with or without rubber covers for watertight seal

### **Safety Relays** pg 393

- EN ISO 13849-1 PLe, Safety Category 4 compliant and EN 62061 SIL 3
- Removable and fixed terminal models
- LED status indicators
- Finger-safe protection



**Switches & Pilot Devices** pg 449

- 8mm, 16mm, 22mm and 30mm
- Illuminated pushbuttons, pushbuttons, pilot lights, selector switches and key selector switches
- Solder terminals, screw terminals or PC board pins for direct board mounting
- Metallic or black bezels, standard or flush mount models

**Signaling Lights** pg 701

- 360-degree visibility of status
- LED or incandescent lamp illumination
- Steady and flashing units with optional alarm
- Five mounting styles

**Relays** pg 753

- General purpose, PCB, latching and force-guided models
- Contact ratings up to 16A
- Correlating sockets available
- DIN rail, panel or PCB mounting

**Circuit Breakers** pg 921

- Available in 1, 2 or 3 poles
- Current ratings up to 50A
- Standard and electronic time delay curves
- DIN rail, socket or panel mount options