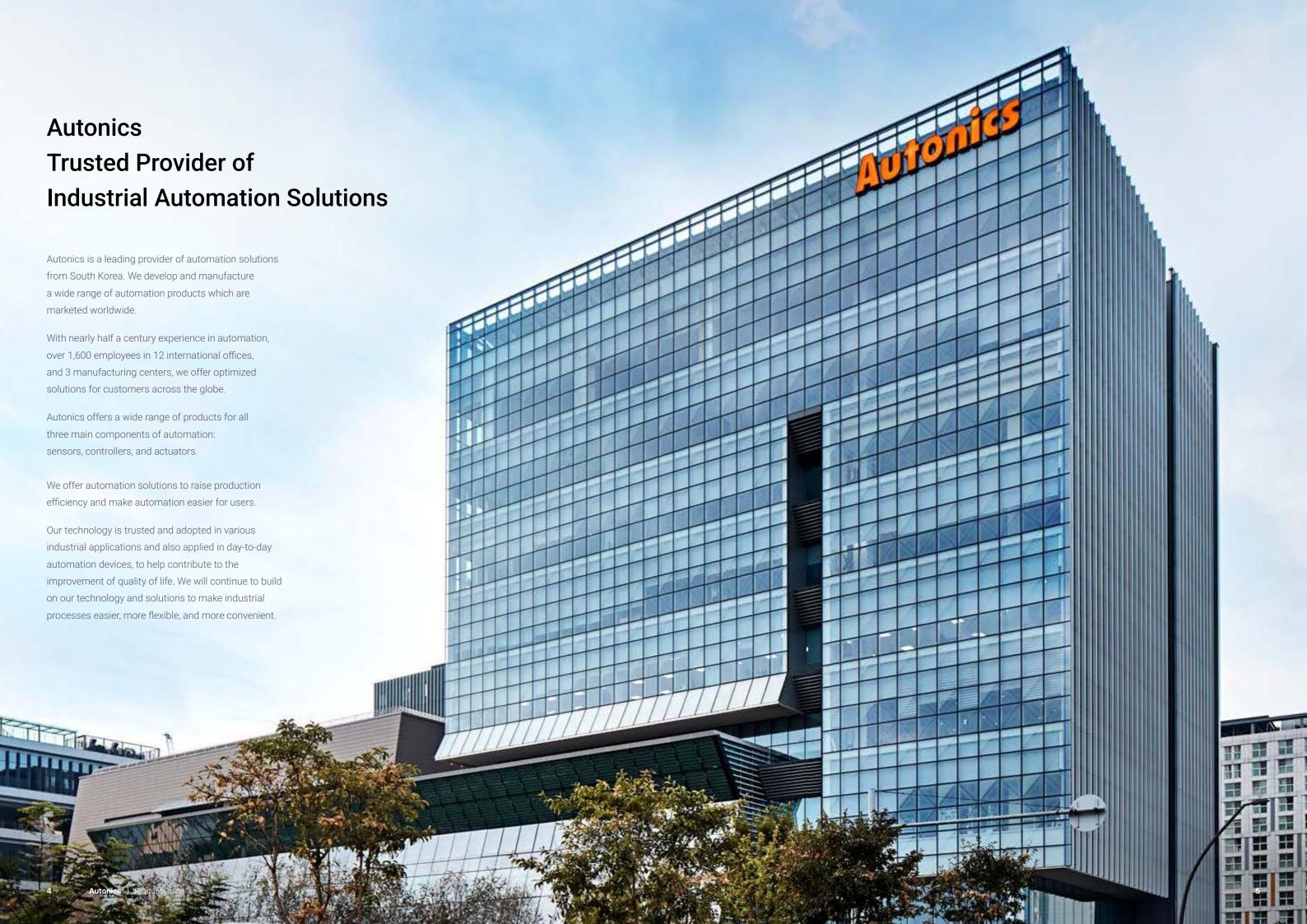
PRODUCT GUIDE

PRODUCT GUIDE



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Α

SAFETY

Safety products are installed in potentially dangerous or hazardous areas to safeguard personnel from injury and protect equipment from damage.

- Safety Light Curtains
- Safety Controllers
- Safety Door Switches
- Safety Switches
- Safety I/O Terminal Blocks



Safety Light Curtains / Safety Controllers



SFL / SFLA Series

Safety Light Curtains

- Standard type (SFL) and high performance type (SFLA) safety light curtains
- Available in 3 detection type models (finger, hand, hand-body detection) and various protection height models
- Various safety-related functions & self-diagnosis functions
- Various status readings with 7-segment display and status indicators
- Certifications : Type 4 ESPE (AOPD), SIL3, SIL CL3, Category 4, PL e

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SFC / SFC-R Series

Safety Controllers

- Slim size (17.5 mm / 22.5 mm / 35 mm (SFC-R))
- LED indicator to display various operation status
- Screw / screw-less wiring connection models
- OFF-delay output and time setting
- Certifications : SIL3, SIL CL3, PL e

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Safety Door Switches



SFDL2 Series

Safety Flat Type Door Lock Switches

- Slim size : W 90 x H 105 x D 35.5 mm
- · Head unit can be rotated to change insert direction of operation key
- Various contact types (up to 6-contacts)
- · Manual unlock function (release key) for emergencies during installation or testing
- · Mechanical lock-solenoid release, solenoid lock-mechanical release models

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SFDL Series

Safety Door Lock Switches

- Head unit can be rotated to change insert direction of operation key
- · Various contact types (4-contact (connected/not connected), 5-contact, 6-contact)
- Connector type (easy installation) and terminal type (easy maintenance) available
- · Manual unlock function (release key) for emergency and testing
- · Certifications: IEC/EN 60947-5-1, EN ISO 14119, GS-ET-15, UL 508

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SFD Series

Safety Door Switches

- · Head unit can be rotated to change insert direction of operation key
- Various contact types (4-contact (connected/not connected), 5-contact, 6-contact)
- Connector type (easy installation) and terminal type (easy maintenance) available
- Metal or plastic head types available
- Certifications : IEC/EN 60947-5-1, EN ISO 14119, GS-ET-19, UL 508

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SFN Series

Safety Non-Contact Door Switches

- $\bullet \ {\sf Electromagnetic} \ {\sf induction} \ {\sf method}$
- Control up to 30 units with a single controller (SFC-N)
- $\boldsymbol{\cdot}$ Easy installation with cable connector models and cable/connector accessories
- Stable detection of actuators in front / rear, top / bottom, right / left direction doors
- $\bullet \text{ U-shaped design with 2-color operation indicators visible from 3 sides (ON: green, OFF: red)}\\$

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Safety Switches / Safety I/O Terminal Blocks



SFEN Series

Safety Grip Type Enabling Switches

- · Various lineup models available (standard / stop button / momentary button type)
- High operation sensitivity with 3-position snap action
- Enable operation indicator (green LED)
- Various contact types (N.O. 2+N.C. 1 / N.O. 2+N.C. 2 / N.O. 2+N.O. 2)
- · Secure connection with cable gland





SF2KR Series

Safety Key Selector Switches

- Check lock / unlock status with the front solenoid operation indicator
- Various line-up of key release direction, N.C. contact powered location, and lock location depending on the general / lockable type
- Contact block option up to 4 contacts
- 10 different key types

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SF2ER Series

Emergency Stop Button Switches

- Easy installation and removal of contact blocks using levers
- Install up to 3 contact blocks on a single switch
- Compatible with O type and Y type terminals
- Oil-resistant IP65 protection structure
- Certifications: EN 60947-5-1, EN ISO 13850, UL 508

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SFT Series

Safety Relay Terminal Blocks

- Relays with force guided contacts for safe control system (IEC 61810-3)
- For driving various loads using PLC output signals
- Redundant circuits and signal feedback for safety
- Available in 4-pole and 6-pole models
- Available in screw type and screwless type models

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B

MACHINE VISION

Machine vision smart camera systems offer ideal machine vision solutions for identifying various objects during manufacturing processes.

- Smart Camera
- Vision Sensors



Smart Camera / Vision Sensors



VC Series

5 M Monochrome Smart Cameras

- ${\boldsymbol{\cdot}}$ Global shutter method for accurate image capturing with minimal motion blur
- Various inspection functions : alignment, brightness, contrast, area, edge, shape, length, angle, diameter, object counting, barcode, OCR, OCV, patterns
- Set up to 64 separate work group (32 inspection points per work group)
- Save data to FTP servers

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VG Series

0.4 M Vision Sensors (Color / Monochrome)

- Vision sensors with integrated LED lighting
- ${\boldsymbol \cdot}$ Global shutter method for accurate image capturing with minimal motion blur
- Enhanced optical performance with light interference prevention technology
- Various inspection functions
- : alignment, brightness, contrast, area, edge, shape, length, angle, diameter, object counting
- : color identification, color area, color object counting (only color type)

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SENSORS

Sensors are commonly used components in automation used to detect changes in the environment and transmit the information electronically.

LiDAR

Door Sensors

• Displacement Sensors

Ultrasonic Sensors

Photoelectric Sensors

Linear Positioning Sensors

Photomicro Sensors

Proximity Sensors

Fiber Optic Sensors

Rotary Encoders

• Area Sensors



LiDAR



LSC Series

2D 270° Laser Scanners

- 270° detection angle, 25 m detection distance
- Compact size for flexible installation (W 60 mm x H 86 mm x L 60 mm)
- Number of field sets: 16 (1 set: consists of 3 subfields)
- Various filter function for accurate detection
- Ethernet communication supported

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LSE2 Series

2D 1-Channel Laser Scanners

- 90° detection angle, 5.6 m \times 5.6 m detection area
- Compact size for flexible installation (W 120 mm x H 46.5 mm x L 89.4 mm)
- Various filter function to prevent malfunction due to fog, rain, snow and dusts
- Operation indicator to identify operation status and errors
- Ethernet communication supported

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LSE3 Series

2D 4-Channel Laser Scanners

- 90° detection angle, up to 10 m x 10 m detection area
- Supports up to 4 channels
- Aluminum die-cast housing minimizes interference from 5 G communication repeaters
- Various filter functions to prevent malfunction due to fog, rain, snow and dust
- Operation indicator to identify operation status and errors

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Displacement Sensors



BD Series

Laser Displacement Sensors (Sensor Head)

- · Reference distance :
- Diffuse reflective type: 30 / 65 / 100 / 300 / 600 mm
- Regular reflective type: 30 / 65 / 100 mm
- Maximum resolution : 1 μm (vary by model)
- · Various calculation functions supported (addition, subtraction, average)
- · Various filter functions for stable measurement (movement average, differential, median)

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BD-A1 Series

Laser Displacement Sensors (Amplifier Unit)

- Easy maintenance with detachable sensor head / amplifier unit
- · Interconnection of up to 8 sensor amplifier units
- : Mutual interference prevention function and auto channel sorting

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BD-C Series

Laser Displacement Sensors (Communication Converter)

- Supports both RS232C and RS485 communication in one device
- Connect up to 8 amplifier units
- Can be powered directly by amplifier units without additional wiring
- Support for dedicated device management software (atDisplacement)
- Set communication speed and addresses using DIP switch without connecting to host devices

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Photoelectric Sensors



BJ Series

Compact High Performance Photoelectric Sensors

- Compact size: W 10.6 mm x H 32 mm x L 20 mm
- Light ON / Dark ON operation mode switch (except BJG30-DDT)
- Sensitivity adjuster (except BJG30-DDT)
- Built-in reverse polarity protection circuit and output overcurrent protection circuit
- Mutual interference prevention function (except BGS reflective type)

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BJX Series

Compact Long Distance Photoelectric Sensors

- Compact size: W 20 mm x H 32 mm x L 11 mm
- · High performance lens with long sensing distance
- Through-beam type: 30 m
- Diffuse reflective type: 1 m
- Retroreflective type : 3 m (MS-2A)

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BRQ Series

Cylindrical Photoelectric Sensor

- Excellent noise immunity and minimal influence from ambient light
- $\bullet \ \mathsf{Power} \ \mathsf{/} \ \mathsf{output} \ \mathsf{reverse} \ \mathsf{polarity} \ \mathsf{protection} \ \mathsf{circuits} \ \mathsf{and} \ \mathsf{output} \ \mathsf{overcurrent} \ \mathsf{protection} \ \mathsf{circuits}$
- Mutual interference prevention function (except through-beam type)
- $\boldsymbol{\cdot}$ Sensitivity adjuster, Switch between Light ON and Dark ON modes using control wire
- Front sensing type (BRQT, BRQM, BRQP), side sensing type (BRQPS) available

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BTS Series

Ultra-Compact, Slim Photoelectric Sensors

- Ultra-slim width of only 7.2 mm
- Various detection methods and minimum target size : Ø2 mm, Ø0.15 mm
- Maximum detection distance: 1 m (through-beam type)
- Stability indicator (green LED) and operation indicator (red LED)
- IP67 protection structure (IEC standard)

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BTF Series

Ultra-Compact, Thin Photoelectric Sensors

- Ultra-thin size of only 3.7 mm
- Various detection methods and minimum target size : Ø2 mm, Ø0.2 mm
- Detecting distance may vary by environmental factors
- Maximum detection distance: 1 m (through-beam type)
- IP67 protection structure (IEC standard)

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BC Series

Color Mark Sensors

- · Outstanding color matching accuracy
- RGB light emitting diodes and 12-bit resolution
- 2 detection modes (color only / color + intensity)
- 3-step sensitivity adjustment for each mode (fine, normal, rough)
- Operation indicator (red LED), stability indicator (green LED), timer indicator (orange LED)

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BH Series

Front/Side Mount Photoelectric Sensors

- Compact size: W 14 mm x H 34.5 mm x L 28 mm
- Front mounting (M18 nut) or side mounting (M3 screws)
- Simultaneous NPN / PNP open collector output
- Mirror Surface Rejection (MSR) function allows stable detection of highly reflective targets
- Sensitivity adjuster included

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BL Series

Liquid Level Photoelectric Sensors

- Compact size: W 23 mm x H 14 mm x L 13 mm
- Photoelectric sensors for non-contact detection of liquid in transparent pipes
- \cdot Detects presence of liquid in transparent pipes (external diameter 6 to 13 mm, <1 mm thick)
- · Light ON / Dark ON operation mode switch
- Built-in reverse polarity protection circuit and output overcurrent protection circuit

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BUP Series

U-Shaped Photoelectric Sensors

- Various sensing distance lineup: 30 mm, 50 mm models
- High speed response time under 1 ms
- Sensitivity adjustable model available
- Switch between Light ON and Dark ON modes using control wire

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BPS Series

Flat Type Photoelectric Sensors

- Compact thin and flat design for easy installation
- Long sensing distance up to 3 m
- IP67 protection structure (IEC standard)

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BX Series

Universal AC / DC Photoelectric Sensors (Wire Terminal Type)

- Universal AC / DC models (relay contact output) available
- Output types : relay contact (AC / DC type), NPN / PNP open collector (DC type)
- Sensitivity adjuster
- Timer function (built-in timer models) : ON delay, OFF delay, One-shot delay
- Self-diagnosis function (green LED ON indicates stable operation)

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BA Series

Diffuse Reflective Photoelectric Sensors with Long Sensing Distance

- · Long sensing distance up to 2 m
- · Built-in stability indicator
- Includes sensitivity adjustment function
- 2 color LED display
- IP64 protection structure (IEC standard)

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BEN Series

Universal AC / DC Photoelectric Sensors

- Universal AC / DC models (relay contact output) available
- Light ON / Dark ON operation mode switch
- Sensitivity adjuster (except through-beam types)
- Stability indicator (green LED) and operation indicator (red LED)
- Output types : relay contact (AC / DC type), NPN / PNP open collector (DC type)

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BJP Series

Photoelectric Sensors for PCB Detection

- 30 mm x 3 mm light beam (at 30 mm distance) provides accurate detection of PCBs regardless of holes, protrusions, intrusions, or errors on the boards.
- Background suppression (BGS) sensing method allows stable detection regardless of the color, texture or surface of the background object
- Sensing distance: 10 to 100 mm (adjustable distance: 20 to 100 mm)
- Light ON / Dark ON operation mode switch

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BJR / BJR-F Series

Oil-Resistant / Oil-Proof Photoelectric Sensors

- Optimized for automotive and machine tool industries such as cutting oil or lubricants
- BJR (oil-resistant type): special coating prevents oil drop / powder from penetrating into the product
- BJR-F (oil-proof type): operates normally even when oil drop / powder penetrates into the product
- Long sensing distance (Through-beam type: 15 m, Diffuse reflective type: 1 m, Retroreflective type: 3 m)

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BMS Series

Side Sensing Type Photoelectric Sensors

- High-speed response time under 1 ms
- Switch between Light ON and Dark ON modes using control wire
- Sensitivity adjuster (except through-beam types)
- Built-in reverse polarity protection circuit and output overcurrent protection circuit

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BY Series

Compact Photoelectric Sensors with Synchronous Detection

- Compact size: W 12 mm x H 30 mm x L 16 mm
- Synchronous detection between emitter / receiver reduces errors from ambient light
- High-speed response time under 1 ms
- Standard type and side sensing type available
- Built-in reverse polarity protection circuit and output overcurrent protection circuit

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BYD Series

Compact Photoelectric Sensors

- Compact size: W 12 mm x H 32 mm x L 18 mm
- $\bullet \ \mathsf{Performance} \ \mathsf{unaffected} \ \mathsf{by} \ \mathsf{color} \ \mathsf{of} \ \mathsf{the} \ \mathsf{target} \ \mathsf{object} \ (\mathsf{convergent} \ \mathsf{reflective} \ \mathsf{type})$
- Operation indicator (red LED)
- Timer function to set OFF delay time (0.1 to 2 sec) (convergent reflective type)
- Built-in reverse polarity protection circuit and output overcurrent protection circuit

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BUM Series

4-Channel U-Shaped Photoelectric Sensors

- Independent 4-channel output
- High-speed response time under 1ms
- ${\boldsymbol \cdot}$ Built-in reverse polarity protection circuit and output overcurrent protection circuit
- IP65 protection structure (IEC standard)

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Photomicro Sensors



BS5 Series

Groove-Depth 9 mm Photomicro Sensors

- Various shapes available for installation flexibility (K, T, V, L, Y, F, R, TA types)
- · Level sensing side and body for minimal detection errors
- Operation indicators viewable from multiple directions
- Indicator ON when light received and indicator ON when light blocked models available
- · High shock and vibration resistance

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Groove-Depth 9 mm Photomicro Sensors with Built-In Connector

- Compact size with built-in connector
- Dedicated connector cables (sold separately) and universal connector cables supported
- Various shapes available for installation flexibility (K, L, R, T, TA, F, Y types)
- Level sensing side and body for minimal detection errors
- Operation indicators viewable from multiple directions

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BS3 Series

Groove-Depth 6.5 mm Photomicro Sensors

- Ultra-compact size : 16 mm x 6 mm
- Various shapes available for installation flexibility (K, F, R, U, L types)
- Minimize detection errors and improved visibility
- Sensing side and body level minimize detection errors occurring from foreign substances
- Operation indicators viewable from multiple directions
- \bullet Indicator ON when light received and indicator ON when light blocked models available



BS5-P Series

Push Button Type Photomicro Sensors

- Button switch operation : accurate detection regardless of material, color, or reflectivity of target object
- Optical detection (emitter / receiver) by button operation guarantees mechanical life cycle of 5 million operations
- \cdot 4 red LED operation indicators (side : 2, top : 2) for higher visibility of operation status
- Optimized for transport detection of semiconductor wafer enclosures

(FOUP, FOSB, etc.)

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Fiber Optic Sensors



BF5 Series

High Speed Single / Dual Digital Display Fiber Optic Amplifiers

- Available in dual and single display models
- Dual digital display for displaying present value and set value (BF5□-D)
- 5 response speeds: Ultra-fast, fast, standard, long-distance, ultra-long-distance mode
- Display range: 0-4000 (standard mode), 0-9999 (long distance mode)
- · Saturation prevention function : prevent errors from saturation of received light

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BFX Series

LCD Digital Display Fiber Optic Amplifiers

- LCD dual display for displaying present value and set value
- High resolution (1 / 10,000) for detecting tiny targets
- 5 response speeds : Ultra-fast, fast, standard, long-distance, ultra-long-distance mode
- · Saturation prevention function: prevent errors from saturation of received light

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BF4 Series

Digital Display Fiber Optic Amplifiers

- High-speed response under 0.5 ms
- $\bullet \, \text{Standard type / external synchronization type / remote sensitivity setting type} \\$
- Auto sensitivity adjustment / remote sensitivity adjustment
- $\bullet \ \ \text{Mutual interference prevention function, self-diagnosis function}$
- Built-in reverse polarity protection circuit, output short-circuit (overcurrent) protection circuit

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BF3 Series

Dual Adjustment Fiber Optic Amplifiers

- Simple DIN rail mount installation
- High-speed response under 1 ms
- Precise sensitivity adjustment with dual adjusters (COARSE, FINE)
- Switch between Light ON and Dark ON modes using control wire
- $\bullet \ \, \text{Built-in reverse polarity protection circuit, output short-circuit (overcurrent) protection circuit}$

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FD/FT/FL/GD/GT Series

Fiber Optic Units

- · Various head types and sensing methods for diverse environments
- Thread, cylindrical, flat, L-shaped, plastic, perpendicular, stainless steel, U-shaped and area detection head types
- Through-beam, retroreflective and convergent reflective methods
- Various cable types available for diverse environments

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Area Sensors



BWC Series

Cross-Beam Area Sensors

- Self-diagnosis output (check sensing screen contamination and blocking of optical axis)
- Long sensing distance up to 7 m
- Easy installation with installation mode function
- 14 configurations (number of optics / optical pitch / detection area)
- · 3-point cross-beam type detection minimizes non-detection area

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BW Series

General Purpose Area Sensors

- Ambient illuminance : 100,000 lux
- Long sensing distance up to 7 m
- 22 configurations (number of optics : 4 to 48 / optical pitch : 20, 40 mm / detection area : 120 to 940 mm)
- 20 mm optical pitch minimizes non-detection area (BW20-□)

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BWP Series

Slim Plastic Body Area Sensors

- Flat body (13 mm) area sensors with Fresnel lens
- High strength PC / ABS plastic body
- High-speed response time under 7 ms
- 4 configurations (optical axis : 8 to 20 / detection area : 140 to 380 mm)
- Light ON / Dark ON operation mode switch

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BWPK Series

Slim Body Area Sensors (Picking Sensors)

- \bullet Flat and compact size : W 30 mm x H 140 mm x D 10 mm
- · Picking indicators on emitter and receiver
- Sensing distance switch (long / short mode switch)
- Light ON / Dark ON operation mode switch
- Mutual interference prevention function (frequency switching)

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BWM / BWML Series

Mapping Sensors

- Mapping sensors for glass substrate detection
- Double scan method (BWM) and line beam detection method (BWML) models available
- Various sensing distance
- Customized models available (sensing channels, sensing target pitch, sensing area)
- Communication output : CC-Link (ver 1.1, 2.0), EtherCAT

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Door Sensors



ADS-A Series

Automatic Door Sensors

- Adjustable hold time switch (2, 7, 15 seconds)
- 4-step detection angle adjustment (7.5°, 14.5°, 21.5°, 28.5°)
- Adjustable detection area (left / right area elimination)
- Max. detection area : 2,460 mm x 86 mm (height 2.7 m)
- \bullet Power supply : 24-240VAC / 24-240VDC (universal AC / DC type), 12-24VAC / 12-24VDC (universal AC / DC type)

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ADS-SE1 / 2 Series

Automatic Door Side Sensors

- \bullet Long sensing distance : 0 to 10 m $\,$
- Ambient lighting : up to 100,000 lux
- Easy connection between sensor head and controller
- Simple sensitivity adjustment (one-touch automatic sensitivity adjustment)
- · Self-diagnosis function

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Ultrasonic Sensors / Linear Positioning Sensors



UTR Series

Cylindrical Ultrasonic Sensors

- Detect and measure various material and surface types with ultrasonic sensing
- Sensing distance (by mount diameter)
- M18 Model : 30 to 350 mm / 65 to 600 mm / 120 to 1,300 mm M30 Model : 600 to 8,000 mm
- Temperature compensation and detection width conversion function for high accuracy
- 316L stainless steel body for high corrosion resistance
- 360° ring type indicator to check operation status from any direction





LPD Series

Inductive Linear Positioning Sensors

- Detect constant linear movements of metal objects with inductive detection
- High resistance to impact with coreless method
- Detection range : 14 mm, 103 mm
- $\bullet \ \mathsf{Analog} \ \mathsf{voltage} \ \mathsf{/} \ \mathsf{current} \ \mathsf{output}, \ \mathsf{voltage} \ \mathsf{/} \ \mathsf{current} \ \mathsf{integrated} \ \mathsf{output}, \ \mathsf{IO-Link} \ \mathsf{output}$
- Various functions : teaching function, OOR (Out-of Range) output function, etc.
- Easy maintenance with IO-Link communication



Proximity Sensors



PR Series

Cylindrical Inductive Proximity Sensors

- IP67 protection structure (IEC standard)
- Operation indicator (red LED)
- PTFE coating prevents malfunctions caused by welding spatter (spatter-resistant models)

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PRD Series

Cylindrical Inductive Long-Distance Proximity Sensors

- Operation indicator (red LED)
- Communication indicator for IO-Link model (orange, green LED)
- PTFE coating prevents malfunctions caused by welding spatter (spatter-resistant models)
- Strain relief cables: improved flexural strength of cable connecting component
- IP67 protection structure (IEC standard)

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PRFD Series

Cylindrical Inductive Full-Metal Long-Distance Proximity Sensors

- High durability against contact with workpieces or wire brushes
- Reduced risk of malfunction caused by aluminum chips
- 2-color LED indicator for easy status monitoring
- Malfunction identification and predictive maintenance with real-time monitoring (IO-Link models : PRFDCM□-□-IL2)
- PTFE coating prevents malfunctions caused by welding spatter (spatter-resistant models)

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PRFD-K Series

Cylindrical Inductive Full-Metal Long-Distance Proximity Sensors (Factor 1 on Fe / Al)

- ${\boldsymbol \cdot}$ Factor 1 sensing with equal detection distance for iron, aluminum and brass
- High durability against contact with workpieces or wire brushes (sensor head / housing : stainless steel)
- Reduced risk of malfunction caused by aluminum chips
- 2-color LED indicator for easy status monitoring

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PS Series

Rectangular Inductive Proximity Sensors

- Operation indicator (red LED)
- \bullet Various sensing sides models (8 mm x 8 mm, 12 mm x 12 mm, 17 mm x 17 mm)
- Alternate frequency models allow adjacent installation of multiple sensors without interference (PSN17
 -F)
- IP67 protection structure (IEC standard)

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PFI Series

Rectangular Inductive Flat Type Proximity Sensors

- Operation indicator (red LED)
- Flat, compact design (10 mm height) allows easy installation in limited spaces
- IP67 protection structure (IEC standard)

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AS Series

Rectangular Inductive Long-Distance Proximity Sensors

- Power indicator (greed LED) and operation indicator (red LED)
- Long sensing distance of 50 mm
- Power supply : 12-48VDC (operating voltage : 10-65VDC)
- Simultaneous output (Normally Open + Normally Closed)
- IP67 protection structure (IEC standard)

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CR Series

Cylindrical Capacitive Proximity Sensors

- \bullet Detect various materials including metal, iron, stone, plastic, water, and grain
- Built-in sensitivity adjuster for convenient configuration
- Operation indicator (red LED)
- Ideal for level detection and position control

EAC



MU Series

U-shaped Magnetic Proximity Sensors

- $\bullet \ \mathsf{Non\text{-}voltage} \ \mathsf{magnetic} \ \mathsf{detection} \ \mathsf{method}$
- Two wiring specifications of cable / cable connector type
- IP67 protection structure (IEC standard)

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PET Series

Inductive Transmission Couplers

- \bullet Inductive coupling allows signals to be generated and transmitted without additional power supply
- ${\boldsymbol{\cdot}}$ Stable operation in various environmental settings including dust or oil
- $\bullet \ \mathsf{Applications} : \mathsf{drilling}, \mathsf{robotics}, \mathsf{automated} \ \mathsf{conveyors} \ \mathsf{system}, \mathsf{etc}.$

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Rotary Encoders



E20S / E30S / E40S / E50S / E68S

Incremental Rotary Encoders (Shaft Type)

- Encoder diameter
- : 20 mm, 30 mm, 40 mm, 50 mm, 68 mm
- · Low shaft moment of inertia
- Various resolutions, output codes, control outputs, and cable types available

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E20HB/E40H/E40HB/E58HB/E60H/E80H/E88H/E100H

Incremental Rotary Encoders (Hollow Shaft Type)

- · Encoder diameter
- : 20 mm, 40 mm, 58 mm, 60 mm, 80 mm, 88 mm, 100 mm
- Various hollow shaft sizes
- Various resolutions, output codes, control outputs, and cable types available

C€ KK EHL



E58S / E60H

Incremental Rotary Encoders (Sine Wave)

- · Analog sine wave operational amplifier (op-amp) output
- Power Supply : 5 VDC ±5%
- Ø58 mm housing, tapered shaft (E58S)
- Ø60 mm housing, Ø20 mm hollow shaft (E60H)

CE KK EHI



EP50S/EP50SP/EP58HB/EP58SC/EP58SS/ENP/EPM50S

Absolute Rotary Encoders (Optical)

- · Encoder diameter
- : 50 mm, 58 mm, 60 mm
- ${\mbox{\footnote{info}}}$ Various resolutions, output codes, and cable types available
- Multi-Turn Absolute Rotary Encoders (EPM50S)
- % Certifications may vary by model.

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MGA50S / MGAM50S

Absolute Rotary Encoders (Magnetic)

- High accuracy in harsh environments including shock, vibration, dust, and humidity
- \bullet Longer service life compared to optical encoders
- MGA50S output codes : BCD, binary, Gray
- MGAM50S output code : binary
- High resolution : up to 1,024 divisions

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EWLS50 Series

Wire-Type Linear Scale Absolute Encoders

- Resolution: 0.1 mm
- Maximum measurement range : 512 mm
- · Various output code options : Binary, Gray

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ENC Series

Wheel Type Incremental Rotary Encoders

- Wheel type encoders ideal for measuring length or speed of continuously moving objects
- Output waveform of measured distance is proportional to International Weights and Measures (meters / inches)
- Power supply : 5VDC ±5%, 12-24VDC ±5%

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ENH Series

Manual Handle Type Incremental Encoders

- · Ideal for manual pulse input applications including NC machinery and milling machines
- Resolutions : 25, 100 pulses per revolution
- Control output : Totem pole, Line driver, Voltage output
- \bullet Power supply : 5VDC ±5%, 12-24VDC ±5%

* Portable manual handle type is also available (ENHP Series)

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ENA Series

Side Mount Incremental Rotary Encoders (Shaft Type)

- Die-cast external housing provides excellent immunity to impact
- Designed to mount directly onto frames
- Various resolutions : 1 to 5,000 pulses per revolution
- · Various control output options
- Power supply : 5VDC ±5%, 12-24VDC ±5%

C€ 5½ EAL



ERB Series

Flexible Shaft Couplings

- · Zero backlash
- High-strength aluminum alloy (AL7075-T6)
- High elasticity
- Alumite treated surface provides high corrosion resistance
- 2 connection types (clamp type, screw type)

EHE

D

FIELD INSTRUMENTS

Field instruments including pressure and temperature transmitters measure and transmit important data in industrial applications and other diverse settings.

- Pressure Sensors
- Pressure Transmitters
- Temperature Sensors / Transmitters



Pressure Sensors



PSQ Series

Dual Display Digital Pressure Sensors

- Pressure measurement of any gas, liquid or oil [fluid type]
- Dual display for simultaneous display of process value (PV) and setpoint value (SV)
- Secondary (SV) display: setpoint value, pressure unit, or display-OFF
- Switch between NPN and PNP open collector output via parameter configuration
- 3-color main (PV) display (RUN mode: green / red, parameter setting mode: orange)

CE EK PN us ERI



PSAN Series

Digital Display Pressure Sensors

- Pressure measurement of any gas, liquid or oil
- Auto shift function : with change in the original pressure, the external input adjusts the determined level to match the change in pressure
- Hold function: hold current display value or control output
- Forced output control mode for device testing and maintenance

CE KK EHI



PSB Series

Rectangular Type Digital Display Pressure Sensors

- · High accuracy digital pressure sensor
- Bright red LED display (character height: 9.5 mm)
- High display resolution: negative pressure 0.1 kPa / standard pressure 0.1 kPa, 1 kPa / compound pressure 0.2 kPa
- · Various output modes : hysteresis mode, automatic sensitivity adjustment mode

C€ KK EHI



PSM Series

Multi-Channel Pressure Sensor Indicators

- Display 8 (PSM8) or 4 (PSM4) channels of pressure value from analog pressure sensors
- Input range: 1-5VDC, DC 4-20mA (by model)
- $\bullet \ \mathsf{Pressure} \ \mathsf{sensor} \ \mathsf{model} \ \mathsf{auto} \ \mathsf{recognition} \ \mathsf{(Autonics} \ \mathsf{PSS} \ \mathsf{series} \ \mathsf{pressure} \ \mathsf{sensors)}$
- Set PV display color by control output type (red / green)
- Individual output indicators for each channel

C€ 5½ EHI



PSS Series

Compact Non-Indicating Pressure Sensors

- Rated pressure range
- negative pressure : -101.3 to 0.0 kPa
- positive pressure : 0 to 100.0 kPa, 0 to 1,000 kPa
- compound pressure : -101.3 to 100.0 kPa $\,$
- Compact design (may vary by model)

CE KK EM

Pressure Transmitters



TPS30 Series

Stainless Steel Pressure Transmitters

- High or low pressure measurement in high and low temperature environments
- High pressure (0 to 60 MPa / 0 to 600 bar), low pressure (0 to 2 MPa / 0 to 20 bar)
- Temperature range (-40° to 125°C) (may vary by model)
- Applicable in diverse settings: packaging machines, heavy machinery, and shipbuilding
- Pressure measurement of any gas, liquid, or oil

CE EM EMI



TPS20 Series

Non-Indicating Pressure Transmitters

- Excellent corrosion resistance with stainless steel housing
- · High accuracy ±0.3% F.S.
- · Various connection method : Head type, DIN connector type, connector cable type
- · Various user friendly function : Built-in zero-point, span adjustment (head type)

CE FR ENI



KT-302H Series

Display Type Pressure Transmitters

- HART protocol, Explosion-proof specification : Ex D IIC T6
- Display rotation in 330° range
- Better visibility with supporting backlight function
- \bullet Excellent corrosion resistance with stainless steel housing
- High accuracy ±0.2% F.S.

CE EK ® EHI



PTF30 Series

Display Type Pressure Transmitters

- Minimized disturbance effect by improving noise resistance
- Excellent corrosion resistance with stainless steel housing
- \bullet High accuracy $\pm 0.2\%$ F.S.
- Various functions: User input range, display scale, output scale, digital filter, multi display selection, abnormal operation display, TUF (Two Unit Function), etc.

C€ 5½ EHI

Temperature Sensors / Transmitters



THD Series

Temperature / Humidity Transducers

- Compact design
- Built-in temperature, humidity sensor
- · Available in room type, duct mount type, and wall mount type
- 7-segment LED Display (THD-DD / THD-WD)
- · Various output options : DC 4-20mA, 1-5VDC, RS485 communication (Modbus RTU)

CE KK IZ EHI



KT-502H Series

Temperature Transmitters with HART Protocol

- HART protocol
- Display rotation in 330° range
- Better visibility with supporting backlight function
- · Various inputs (to order, select one from 22 kinds)
- Explosion-proof specification : Ex D IIC T6

CE FR R EU



CN-502H Series

Cylindrical Temperature Transmitters with HART Protocol

- HART protocol
- Multi-input (to order, select one from 22 kinds)
- Small size (Ø44 x H 24 mm)
- High accuracy ±0.3% F.S.

CE CH

Ε

CONTROLLERS

Controllers are widely used in industrial control systems to adjust or maintain desired outputs of specific processes within a desired range.

• Temperature Controllers • Recorders

• Counters • Digital Display Units

• Timers • Sensor Controllers

• Digital Panel Meters • HMIs / Industrial PC



Temperature Controllers



TN Series

2-DOF PID Temperature Controllers (Program / Fixed Control)

- 2-DOF PID algorithm optimized for various control applications
- 50 ms high-speed sampling rate and ±0.2% display accuracy
- Program control and fixed control models available
- Simultaneous heating / cooling and automatic / manual control function
- Control functions : Group PID, Zone PID, Anti Reset Windup (ARW)

CE EK SANUS E



TH4M Series

LCD Temperature / Humidity Controllers

- · Simultaneous temperature and humidity control
- Large LCD display with easy-to-read PV characters
- Temperature and humidity input correction function
- Output delay time setting
- · Dedicated temperature / humidity sensor THD-RM series (included)

C€ KK



TMH Series

Modular Multi-Channel High Performance Temperature Controllers

- Control modules, Communication modules, Analog input / output option modules, Digital input / alarm output option modules, CT Input option modules
- Easy maintenance with detachable body and base terminal
- Power supply and communication with expansion connectors (up to 32 units)
- Screw / screwless connection type models
- Terminal protection cover (sold separately)

CE EK : AVus III EHI



TM Series

Modular Multi-Channel PID Temperature Controllers

- Multi-channel (4-channel: TM4 / 2-channel: TM2) input and output control
- Module connection and expansion with expansion connectors (up to 31 units)
- High-speed sampling cycle (4-channel: 100 ms / 2-channel: 50 ms)
- Simultaneous heating and cooling control function
- Parameter configuration via PC (DAQMaster software)
- Switch between relay, current, SSR drive output

CE EK CAN'US IS EM



TR1D Series

Slim Single Display PID Temperature Controllers

- Compact, space-saving design with 22.5 mm width size
- 50 ms high-speed sampling and ±0.3% display accuracy
- Simultaneous heating and cooling control function
- Switch between relay, current, SSR drive output
- Heater disconnect alarm function (CT input) Current transformer (CT) sold separately

CE CH



TK Series

High Performance PID Temperature Controllers

- 50 ms high-speed sampling rate and ±0.3% display accuracy
- High luminance LED display with large PV and SV characters
- · Simultaneous heating and cooling control function
- · Automatic / manual control option
- · Switch between relay, current, SSR drive output

CE EK SAN IS ERI



TX Series

LCD Display PID Temperature Controllers

- 50 ms high-speed sampling rate and ±0.3% display accuracy
- · Large LCD display with easy-to-read white PV characters
- SSR drive output (SSRP function) control options : ON / OFF control, cycle control, phase control
- Compact, space-saving design with 45mm depth
- Switch between relay, current, SSR drive output

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TC / TCN Series

Economical Single / Dual Display PID Temperature Controllers

- 100 ms high-speed sampling rate and ±0.5% display accuracy
- Single digital display (TC) and dual digital display (TCN) PID temperature controllers
- · SSR drive output (SSRP function) control options: ON / OFF control, cycle control, phase control
- Compact design with large display panels for easier reading
- Switch between relay output and SSR drive output

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TA Series

Analog Non-Indicating Type PID Temperature Controllers

- Auto-tuning PID temperature control
- PID and ON / OFF control: toggle via external switch
- Deviation indicators (green, red LED)
- Control output indicator (red LED)
- · Stop control output function using analog dial

CE EK CAN'US ERI



T3 / T4 Series

Thumbwheel Switch Digital Temperature Controllers

- · Various control output options: relay, SSR drive, current
- · 2 independent set points and control outputs for heating and cooling control (T4LP)
- · Available in various sizes (W 48 × H 48, W 48 × H 96, W 72 × H 72, W 96 × H 96 mm)
- · Indicator Type provided

EHE

TF3 Series

High Performance Refrigeration Temperature Controllers

- Standard installation size for refrigeration panels (W 70.3 mm x H 28.2 mm)
- · Various compressor load current capacity: 5A, 16A, 20A
- Various user-friendly functions
- Defrost sync function: simultaneous defrost operation of multiple controllers (up to 6 units)
- RTC (Real Time Clock) function: night mode operation and real-time defrost control
- Built-in alarm function

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TC3YF Series

Refrigeration Temperature Controllers

- ON / OFF control
- Standard input type: thermistor (NTC)
- RTD(Pt100 Ω) input models available upon request.
- Temperature range
- Thermistor (NTC) : -40.0 to 99.9°C (-40 to 212°F), RTD (Pt100 Ω) : -99.9 to 99.9°C (-148 to 212°F)
- · Various functions available for optimal cooling control

c**SN**us [© EH[



KPN Series

Bar Graph Temperature Controllers

- High speed sampling of 50ms and ±0.3% display accuracy
- Enable to check control output operation amount by adopting bar graph
- · Simultaneous heating / cooling control and automatic / manual control for high performance control
- Selection function of current output or SSR drive output
- Parameter setting available via PC (USB and RS485 communication)
- Free device comprehensive management program (DAQMaster)

CE KK EHI



KN-1000B Series

Bar Graph Indicators

- High accuracy with 16 bit ADC (±0.2% F.S.) • Multi-input types (Thermometer 12 types, RTD 5 types, Analog 6 types)
- 101 LED bar graph (green)
- Various output options
- Alarm output : 2 points / 4 points
- 4-20mA transmission output (isolated), RS485 communication output

C€ KK EHI



KN-2000W Series

1-channel Digital Indicators

- High accuracy with 16 bit ADC (±0.2% F.S.)
- Max. display range: -19999 to 19999
- Multi-input types (Thermometer 12 types, RTD 5 types, Analog 8 types)
- · Auto display color change function : Selectable indicator colors when error occurs or alarm operates
- · Various output options (Alarm output, 4-20mA transmission output, RS485 communication output)

Counters



CT Series

Programmable Digital Counter / Timers

- Integrated counter / timer unit for counting and timing requirements
- RS485 (Modbus RTU) communication (models available)
- One-shot output time: 0.01s to 99.99s
- Various input / output modes: counter (9 input modes, 11 output modes), timer (11 output modes)

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CX Series

LCD Display Counter / Timers

- · LCD display with easy-to-read white PV characters
- Input type : voltage input (PNP) / no-voltage input (NPN) selectable (through parameter setting), universal voltage input type available
- One-shot output time: 0.01 to 99.99 seconds (in 0.01 second increments)
- Various output modes : counter (11 input modes, 11 output modes), timer (15 output modes)

CE KK EHI



CM6M Series

30-Channel Counters

- Max. counting speed: 20 cps
- Compact rear-length size (64.5 mm)
- · Count up to 30 channels (individual output indicators for each channel)
- 6-digit display (0 to 999999 range)
- Front panel button lock function

CE CK



FX Series

Standard Digital Counter / Timers

- Counting speeds: 1 cps / 30 cps / 2 kcps / 5 kcps
- Switch between counter and timer operation using DIP switch
- Indicator type provided
- Counter: 20 input modes, 18 output modes
- Timer : Various output modes (16 output modes)

CE CA CANUS ROHS [H[



LA8N Series

Compact 8-Digit LCD Backlight Counters

- Compact size : DIN W 48 × H 24 × L 54 mm
- LCD display with 8.7 mm character size
- Backlight models available
- Operation modes : count-up, count-down
- Decimal point setting function

CE cSU'us EHI

Timers



LE7M-2 Series

Digital Week / Year Timers

- · Various external input functions
- Backlight display with high visibility
- · Simple configuration and status monitoring
- Time configuration and control in week or year units
- Daylight savings time function

CE EK PN us ERI



LE8N Series

Compact 8-Digit LCD Digital Timers

- Compact size : DIN W 48 mm x H 24 mm x L 54 mm
- LCD display with 8.7 mm character size
- Backlight models available
- · Various time setting ranges
- Input signal types : no-voltage input, voltage input, AC / DC universal voltage input

CE CH CAN US ROHS [H[



LE4S Series

LCD Display Digital Timers

- Mounting space saving with compact design
- Available to set each value and time range separately when choosing Flicker (FK, FK I) or ON-OFF Delay (ON OFF D, ON OFF D I) output mode
- Adds Flicker 1 mode (LE4SA)
- Settable One-shot output time (0.01 to 99.99 sec) (existing model: fixed 0.5 sec)

CE UK ORUS ERI



FSE Series

8-Pin Plug Type Digital Timers

- Wide time setting range: 0.01s to 9999.9h
- · Switch between voltage input (PNP) and no-voltage input (PNP) using DIP switch
- Set hr / min / sec display with RESET key
- 8-pin plug type connection
- 10 year memory protection (using non-volatile semiconductor)

CE EK SNUS ERE



ATM Series

Miniature Analog Timers

- Ultra-compact, miniature size : W 21.5 mm x H 28 mm x L 59.3 mm
- · 4PDT contacts (250VAC, 3A)
- Highly accurate timing control
- Simple time setting with analog dial
- Various time ranges : 0.1s to 3h (11 available options, by model)

C€ ₭ Ⅲ



ATN Series

Multi-Function Analog Timers

- 6 output operation modes
- 16 time setting ranges
- Wide time setting range: 0.05s to 100h
- Simple time setting, time range, and output operation configuration with analog dial and switches
- · LED operation indicator and output indicator

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ATS Series

Compact Multi-Function Analog Timers

- 6 output operation modes
- 12 time setting ranges
- Wide time setting range: 0.1s to 30h
- Adjacent installation and DIN rail mounting possible with PS-M8 (W 41 mm) sockets
- Only for 8-pin ATS models

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ATE8 Series

Simple Operation Analog Timers

- · Simple configuration and operation with analog dial
- Various time setting ranges
- Standard DIN W 48 mm x H 48 mm
- Power supply : 100-240VAC 50 / 60Hz, 24-240VDC

CE CH CAN'US EHE

Digital Panel Meters



MT4Y / MT4W / MT4N Series

Digital Panel Meters with Diverse Input / Output Options

- Available in various sizes
- Various input / output options (by model)
- · Maximum allowed input: 500VDC, DC 5A, 500VAC, AC 5A
- Display range: -1999 to 9999
- High / low-limit display scale function

CE EK PN us ERI



MX4W Series

LCD Display Multi Panel Meter

- Compact, space-saving design (rear-length: 20 mm)
- · LCD display with easy-to-read white PV characters
- Isolated input and power modules : powering of multiple units using a single power supply
- Various input options (by model)
- Input options : DC / AC voltage, DC / AC current

CE CH CANUS



M4NN Series

Compact Digital Panel Meters with Diverse Input Options

- Various input / output options (by model)
- Input options : DC voltage, DC current, AC voltage, AC current
- Output options : NPN open collector / PNP open collector (default : indicator / no output)
- · Isolated input and power modules: powering of multiple units using a single power supply
- Display range : -1999 to 9999

CE KK EHI



M4N Series

Compact Digital Panel Meters

- Compact size: DIN W 48 mm x H 24 mm
- Input options (by model): DC voltage, DC current
- · Auto-zero adjustment and hold display value function
- Max display value: 1999
- 7-segment LED display

RoHS [H[



M4M / M4W / M4Y / M5W Series

Digital Panel Meters

- Thumbwheel switch type: M4M / M4W, Indicator type: M4Y / M5W
- Voltmeter, Scaling, Ammeter, Wattmeter, Tachometer
- Max display value: 1999 (all other models), 19999 (M5W)
- · DIN standard size models
- Output options : indicator only, single setting output, dual setting output

Rons [H[



M4NS / M4YS Series

Loop-Powered Digital Scaling Meters

- Loop-powered : power supplied by loop current
- Measured input : DC 4-20mA
- Display range : -1999 to 9999
- · High / low-limit display scale function
- Decimal point setting function

Rons [H[



M4V Series

Digital Panel Meters for Mosaic Panels

- · Various input options: 0-2VDC, 0-10VDC, 1-5VDC, DC 0-1mA, DC 4-20mA
- · High / low-limit display scale function
- Display range : -999 to 9999
- Display accuracy : F.S ±2%rdg ±1dgt
- · Error display function

Rons [H[



LR5N-B Series

Compact Digital Pulse Meters

- 1-pulse input per revolution
- Display up to 10,000 RPM
- Built-in internal battery (power supply not required)
- \bullet Display RPM or RPS of rotating shaft or disc
- AC voltage frequency display function

CE CA ROHS [][



MP5M Series

High Performance Digital Pulse Meters

- 14 operation modes
- Various output options : Relay single (high-limit) / relay double (high / low-limit) output+NPN open collector output
- Various functions : Prescale, monitoring delay, hysteresis, auto-zero, parameter lock function
- NPN input (non-contact / contact) or PNP input (non-contact / contact)

CE EK CAN'US ERI



MP5S / MP5Y / MP5W Series

High Performance Digital Pulse Meters

- 16 operation modes
- Various output options : Relay triple / quintuple output, NPN / PNP open collector quintuple output
- $\hbox{\bf \cdot} \ {\sf Various} \ {\sf functions} : {\sf Prescale}, \ {\sf monitoring} \ {\sf delay}, \ {\sf hysteresis}, \ {\sf auto-zero}, \ {\sf parameter} \ {\sf lock} \ {\sf function}$
- NPN input (non-contact / contact) or PNP input (non-contact / contact)

CE EK CRUS EHE

Recorders



KRN1000 Series

LCD Touchscreen Paperless Recorders

- 5.6-inch TFT color LCD touchscreen display: excellent visibility and intuitive control interface
- Supports 27 input types (thermocouple, RTD, analog voltage and current[shunt])
- 4 / 8 / 12 / 16 input channel models available
- · Various communication methods (USB, RS422 / 485, Ethernet) supported
- 25 to 250 ms high-speed sampling, 1 to 3600s recording cycle

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KRN100 Series

100 mm Hybrid Recorders

- 100 mm paper recorder
- Writable data logger function without paper (internal memory and external USB memory data backup)
- \cdot 25 to 250 ms high speed sampling, 10 to 240 mm / H high graph mode recording
- 6 kinds of recording color
- Easy parameter setting with quick menu

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KRN50 Series

50 mm Compact Hybrid Recorders

- 50 mm thermal transfer method of paper recorder
- Data logger function for recording without paper
- 2-channel simultaneous recording
- graphic mode, digital mode
- \bullet RS485 communication and dedicated communication port to set or monitor parameters in real-time by PC / PLC

C€ FR FHI

Digital Display Units



DS / DA Series

Intelligent Type Digital Display Units

- Simple wiring without soldering
- · Various input options : Serial input, parallel input, RS485 communication input
- Expandable up to 24 units with multi-stage connection
- · Available in various sizes: 16 mm, 22.5 mm, 40 mm, 60 mm
- Available in 7-segment display and 16-segment display types

C€ KK EHL



D1AA Series

Small 16-Segment Digital Display Units

- Display 61 unique characters (0 to 9, A to Z, 24 symbols, period)
- Input logic : positive (PNP), negative (NPN)
- Data input method : parallel, serial
- Input signal voltage: high (4.5-24VDC), low (0-1.2VDC)
- 16-segment LED display (D1AA-RN: red / D1AA-GN: green)

ROHS [H[



D1SA Series

Small 7-Segment Digital Display Units

- Display characters : decimal (0 to 9), hexadecimal (0 to 9, A to F)
- Input logic : positive (PNP), negative (NPN)
- Data input method : parallel, serial
- Input signal voltage : high (4.5-24VDC), low (0-1.2VDC)
- · 7-segment LED display (D1SA-RN: red / D1SA-GN: green)

RoHS [H[



D1SC-N Series

Large 7-Segment Digital Display Units

- Display characters : decimal (0 to 9), hexadecimal (0 to 9, A to F)
- Input logic : positive (PNP), negative (NPN)
- Data input method : parallel, serial
- Input signal voltage: high (4.5-24VDC), low (0-1.2VDC)
- 7-segment LED display (red)

Rohs [ff[



D5Y / D5W Series

Panel Mount 5-Digit Digital Display Units

- Various data input methods: Static / Dynamic parallel, 4 / 5-bit serial, 16 / 20 / 25-bit serial input
- Decimal point and minus sign display function
- Input logic : positive (PNP), negative (NPN)
- · Switch between 4-digit (-9999 to 9999) and 5-digit (0 to 99999) display
- Zero blanking function

RoHS [H[

Sensor Controllers



PA10 Series

High Performance Sensor Controllers

- High-speed output response
- DIN rail or panel mount installation
- Various models
- PA10-V, PA10-W, PA10-U
- Wide range power supply: 100-240VAC, 50 / 60Hz

RoHS [H[



PA-12 Series

8-Pin Plug Type Sensor Controllers

- 110 / 220VAC dual voltage
- NPN/PNP input switch
- High contact capacity (250VAC, 3A resistive load)
- Socket plug-in type (8-pin)
- N.O. or N.C. relay output available

Rohs [ff[

HMIs / Industrial PC



LP Series

Color LCD Logic Panels

- · Various sizes (7, 10.4-inch), TFT LCD True Color display
- Horizontal / vertical installation
- All-in-one device including functions of PLC, HMI, and I/O modules
- Various communication interface support: RS232C, RS422 / 485, Ethernet, CAN
- 16, 32 input and 16, 32 output points provided
- Device monitoring of connected device possible without screen data

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GP Series

Color LCD Graphic Panels

- · Various sizes (4.6, 5.7, 7, 10.4-inch), TFT LCD True Color display
- Horizontal / vertical installation
- ${\boldsymbol{\cdot}}$ Device monitoring of connected device possible without screen data
- atDesigner screen editor software provided
- Various support functions, extensive image and object library

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APC Series

10.1-Inch Panel PC

- Integrated PC with display
- Microsoft Windows 10 included
- · Quad-core processor
- 10.1 inch IPS TFT color LCD display
- \bullet Resistive touch screen allows operation with gloved fingers, pens, or stylus

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POWER ELECTRONICS

Power electronics, including switching mode power supplies, solid state relays, and power controllers, help maintain stable and efficient power supply.

- Switching Mode Power Supplies
- Solid State Relays
- Power Controllers



Switching Mode Power Supplies



SPB-A Series

DIN Rail Switching Mode Power Supplies

- Various lineups for diverse applications (15 W \sim 480 W)
- Compact size for maximum space efficiency
- Improved power factor with PFC circuit
- Outstanding environmental resistance : overcurrent / overvoltage protection and overheating prevention, wide temperature range
- Low output voltage indicator (red LED), output indicator (green LED)





SPA Series

Panel Mount Switching Mode Power Supplies

- ${\boldsymbol{\cdot}}$ Stable power supply with minimal noise and ripple
- Built-in overcurrent protection circuit, output short-circuit protection circuit, overheat protection circuit, and overvoltage protection (SPA-075 / 100 only)
- Output voltage: 5VDC, 12VDC, 24VDC
- Output power : 30 W, 50 W, 75 W, 100 W, 400 W

C€ KK

Solid State Relays



SRH1 Series

Single-Phase SSR with Integrated Heatsink (Current / Voltage Input Type)

- High heat dissipation efficiency with ceramic PCB
- DIN rail mount or panel mount installation
- Voltage input type, current input type
- Input indicator (green LED)

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SRHL1 Series

Single-Phase Alarm Output SSR with Integrated Heatsink

- Rated input voltage: 10-30VDC, 90-240VAC
 Rated load voltage: 24-240VAC, 48-480VAC
 Rated load current: 10A, 15A, 20A, 25A, 40A
 Zero cross turn-on, random turn-on models available
- Input indicator (green LED)

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SR1 Series

Single-Phase SSR with Detachable Heatsink

- Compact, universal design for flexible installation
- High heat dissipation efficiency with ceramic PCB
- Zero cross turn-on, random turn-on models available
- Input indicator (green LED)

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SRC1 Series

Single-Phase Slim SSR with Detachable Heatsink

- Slim, compact size (22.5 mm width)
- High heat dissipation efficiency with ceramic PCB
- · Zero cross turn-on, random turn-on models available
- Input indicator (green LED)

CE EK CAN'US ERI



SRS1 Series

Single-Phase Socket SSR with Detachable Heatsink

- Various socket types for easier installation and maintenance
- · Various rated input voltage, rated load voltage, rated load current
- Dielectric strength : 2500VAC
- · Zero cross turn-on, random turn-on models available
- Input indicator (red LED)

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SR3 Series



3-Phase SSR with Detachable Heatsink type

- Two mounting hole types and sizes
- Alarm function (overheating): Alarm output indicator (red LED), disconnect standard output, alarm output
- High dielectric strength: 4000VAC (select models)
- · Various rated input voltage, rated load voltage, rated load current
- High heat dissipation efficiency with ceramic PCB and integrated heatsink

CE c**SU**us EHI



SRH3 Series

3-Phase SSR with Integrated Heatsink Type

- Two mounting hole types and sizes
- · Alarm function (overheating): Alarm output indicator (red LED), disconnect standard output, alarm output
- High dielectric strength: 4000VAC (select models)
- Various rated input voltage, rated load voltage, rated load current
- High heat dissipation efficiency with ceramic PCB and integrated heatsink
- Various mounting methods (DIN rail, panel)

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Power Controllers



SPRS Series

Modular Multi-Channel Power Controllers

- Modular power controllers with separate control and power modules
- Connect up to 4 power modules to a single control module
- Various rated current models : 25A to 600A
- Single-phase control or three-phase control selectable
- · Various control types: Phase, cycle, ON / OFF control

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SPRM Series

Multi-channel Power Controllers

- Single-phase control or three-phase control selectable
- Wide voltage range : 220 to 440VAC
- · Various rated current models : 25A, 40A, 55A, 70A, 90A, 110A, 160A
- Monitoring load current, voltage, output, resistance, heatsink temperature, power
- Various alarm functions and history save option

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SPR1 / 3 Series

Slim Single / Three-Phase Power Controllers

- $\hbox{\small \bullet Slim Single (SPR1) / Three-Phase (SPR3) Power Controllers}$
- Slim and elegant design
- LED display allows real-time monitoring of control input, load voltage, load current, load power, load resistance, and heat-sink temperature
- Stable control with feedback control (constant current, constant voltage, constant power)

CE CA



DPU Series

Digital Thyristor Power Controllers

- High speed and high accuracy by digital control using high speed CPU
- · Various controls : Phase, feedback, zero crossing cycle, zero crossing ON / OFF control
- Improved maintainability with built-in fast-acting fuse and easy fuse replacement
- Communication output model: RS485 (Modbus RTU)
- Various control inputs, DI inputs and alarm output

CE EK CAN'US ERI



SPC1 Series

Single-Phase Power Controllers

- Various input specification: DC4-20mA, 1-5VDC, External 24VDC, External adjuster, External contact
- Various function: out ADJ (output limit) function, soft start function (except for ON / OFF control type)
- Various control type by mode switches: phase control type, cycle control type (zero cross turn-on), ON / OFF control type (zero cross turn-on)

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MOTION DEVICES

Motion devices are used to convert electrical energy into mechanical energy acting as actuators in automation processes.

- Closed Loop Stepper Motor System
- Stepper Motor Drivers
- 5-Phase Stepper Motors
- Motion Controllers



Closed Loop Stepper Motor System



AiC Series

2-Phase Closed Loop Stepper Motor System with Integrated Controller

- Closed loop system for precise real-time position control
- High speed and high torque drive without missed steps
- Control up to 31 axes with RS-485 communication, 42 axes with CC-Link communication
- \bullet Built-in brake type motors, built-in gear / rotary actuator type motors available
- $\hbox{-} \mbox{Various communication control (CC-Link, EtherCAT, Modbus TCP)} \\$

X Certifications may vary by model.

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AiCA Series

AC Power 2-Phase Closed Loop Stepper Motor System with Integrated Controllers

- · Closed loop system for precise real-time position control
- High speed and high torque drive without missed steps
- Control up to 31 axes with RS-485 communication
- EtherCAT Communication Control (AiCA-EC)
- Built-in brake type motors, built-in gear / rotary actuator type motors available & Certifications may vary by model.

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AiS Series

2-Phase Closed Loop Stepper Motor System

- Closed loop system for precise real-time position control
- High speed and high torque drive without missed steps
- Easy operation setting with external adjuster (Gain, speed filter, in-position, resolution)
- \bullet Built-in brake type motors, built-in gear / rotary actuator type motors available

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AiSA Series

AC Power 2-Phase Closed Loop Stepper Motor System

- Closed loop system for precise real-time position control
- High speed and high torque drive without missed steps
- Supports 200-240VAC AC power supply
- Easy operation setting with external adjuster (Gain, speed filter, in-position, resolution)
- \bullet Built-in brake type motors, built-in gear / rotary actuator type motors available

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Stepper Motor Drivers



MD2 Series

2-Phase Stepper Motor Drivers

- Unipolar constant current drive method
- STOP current setting provides holding torque (brake function)
- · Low vibration operation with microstepping drive (MD2U-MD20)
- Isolated photocoupler input design minimizes influence from electrical noise
- Power supply: 24-35VDC

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MD5 Series

5-Phase Stepper Motor Drivers

- · Bipolar constant current pentagon drive method
- · Various built-in functions including auto current down and self-diagnosis
- ${\boldsymbol{\cdot}}$ Microstepping drive allows low-speed rotation and extreme precision control
- Isolated photocoupler input design minimizes influence from electrical noise

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5-Phase Stepper Motors



AK(B) Series

5-Phase Stepper Motors (Shaft Type / Built-in Brake Type)

- Compact and lightweight with high speed, high accuracy, and high torque
- · Space-saving design ideal for building compact-sized systems
- Low, economical prices for improved cost efficiency
- Built-in brakes (AK-B Series)
- Frame sizes : AK 24 mm, 42 mm, 60 mm, 85 mm, AK-B 42 mm, 60 mm, 85 mm

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AHK Series

5-Phase Stepper Motors (Hollow Shaft Type)

- Compact and lightweight design with high accuracy, speed, and torque
- Connect ball-screws or TM-screws directly without couplings
- No resonance (vibration, noise) caused by couplings
- Space-saving design ideal for building compact-sized systems
- Low, economical prices for improved cost efficiency
- Frame sizes: 42 mm, 60 mm, 85 mm

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AK-G(B) Series

Geared 5-Phase Stepper Motors (Shaft Type / Built-in Brake Type)

- \bullet Compact, space-saving design ideal for building compact-sized systems
- Low, economical prices for improved cost efficiency
- Backlash (frame size) 42 mm : ±35' (0.58°), 60 mm : ±20' (0.33°), 85 mm : ±15' (0.25°)
- Built-in brakes (AK-GB Series)
- Brake is released when 24VDC is applied to brake wire (AK-GB)

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AK-R(B) Series

5-Phase Stepper Motors (Rotary Actuator Type / Built-in Brake Type)

- · Compact, space-saving design ideal for building compact-sized systems
- Low, economical prices for improved cost efficiency
- Backlash (frame size): 60 mm: ±20' (0.33°)
- Built-in brakes (AK-RB Series)
- Brake is released when 24VDC is applied to brake wire (AK-RB)

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Motion Controllers



PMC-1HS / 2HS Series

1-Axis / 2-Axis High-Speed Programmable Motion Controllers

- High-speed processing up to 4 Mpps
- 4 operation modes : scan, continuous, index, program
- 12 control commands and up to 64 steps of programming per axis
- Parallel interface input / output terminal to communicate with various PLCs
- $\bullet \ \, \text{Operation programming, parameter configuration and editing with dedicated software}$

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PMC-2HSP Series

2-Axis Interpolation Type Motion Controllers

- High-speed independent 2-axis control with processing speed up to 4 Mpps
- Supports linear and circular interpolation control
- 17 control commands and up to 200 steps of operation programming
- Supports various control interfaces (USB, RS232C, RS485, Parallel I/O)
- Multiple control of up to 32-axes (16 units) with RS485 communication (Modbus RTU)

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PMC-4B-PCI Series

4-Axis PC-PCI Card Programmable Motion Controllers

- Independent 4-axis control of AC servo motors and stepper motors
- Supports Windows 98, NT, 2000, XP, Windows 7
- Auto home search function and synchronous operation
- Interpolation control for circular, linear, bit pattern, continuous, acceleration, and deceleration drives
- 2-axis / 3-axis constant linear velocity

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INDUSTRIAL NETWORKING

Industrial networking devices allow communication between devices using various protocols such as Ethernet, offering safe transmission of real-time data to control systems.

- Remote I/O System
- Network Converters / Signal Conditioners



Remote I/O System



ADIO Series

Remote I/O Boxes

- IO-Link Master type (ADIO-ILM), IO-Link HUB type (ADIO-HUB)
- Convenient Wiring with Daisy Chain Structure
- Zinc Die-cast Housing and IP67, IP69K Protection Rating
- Push-Pull Connector Type Available
- I/O port setting and status monitoring (cable short / disconnection, connection status, etc.)





ARIO Series

Slim Remote I/O

- \bullet Industrial Ethernet / Fieldbus serial communication I/O for Smart Factory
- Multiple I/O distribution control using PLCs and industrial PCs.
- Coupler: available in 8 different communication protocols
- Module : various input / output modules, power module
- Hot-swap feature: Terminal and body units can be removed/swapped during operation for easy





ARD Series

DeviceNet Analog / Digital Remote I/O

- DeviceNet analog (ARD-A) / digital (ARD-D) remote I/O
- Additional expansion
- Expand up to 63 base units per master unit (ARD-A)
- Connect up to 3 expansion unit (terminal block type), 7 expansion unit (sensor connector type) (ARD-D)
- * Certifications may vary by model.

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ARM Series

Modbus RTU Digital Remote I/O (Sensor Connector Type)

- Modbus RTU protocol digital remote I/O
- Input and output expansion for PCs, PLCs, and Autonics logic panels (LP)
- Compatible with e-CON sensor connectors for easy wiring and connection
- Additional expansion
- · Various functions and real-time monitoring

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Network Converters / Signal Conditioners

Section 1

SCM Series

Communication Converters

- SCM-WF48: Wireless Communication Converters for RS485 / USB to Wi-Fi
- SCM-US48I : USB-RS485 Communication Converters
- SCM-38I: RS232C-RS485 Communication Converters
- SCM-US / SCM-USP / SCM-SFL : USB-Serial Communication Converters

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CN-6000 Series

Isolated Signal Conditioners

- Multi-input, Various outputs
- Improved visibility with negative LCD : 2 segment, 3 colors (selectable red, green, yellow)
- Displays input type and unit on display part
- Various functions
- High / Low peak input monitoring
- Alarm output (upper / lower, sensor break)

CONNECTIVITY

Connectivity devices are communication devices used to send and receive signals or data between the environment and information processing systems.

- I/O Terminal Blocks
- Cables / Connectors / Socket



I/O Terminal Blocks



ACS / ACL / ACR Series

Common Terminal Blocks

- Screw / screwless push-in / rising clamp type
- Common wiring on PCB, jumper bar not required
- Space-saving design
- DIN rail mount and screw mount installation

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AFS / AFL / AFR Series

Interface Terminal Blocks

- Screw / screwless push-in / rising clamp type
- Ideal for PLCs and motion device I/O
- · Space-saving design
- DIN rail mount and screw mount installation

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AFE Series

Sensor Connector Terminal Blocks

- · Sensor connector type
- Wire stripping and tools not required
- LED Operation status indicator
- \bullet DIN rail mount and screw mount installation
- Switch between NPN and PNP input with switch

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ABS / ABL Series

Relay Terminal Blocks

- Screw / screwless push-in type
- · Switch between independent and load common output with jumper bar
- Operation status indicator (blue LED)
- · Convenient relay removal with ejector clip and release lever
- DIN rail mount and screw mount installation

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ASS / ASL Series

Solid State Relay Terminal Blocks

- Screw / screwless push-in type
- $\bullet \ \mathsf{Contactless} \ \mathsf{relay} \ \mathsf{suitable} \ \mathsf{for} \ \mathsf{systems} \ \mathsf{requiring} \ \mathsf{long} \ \mathsf{life}\mathsf{-cycle} \ \mathsf{and} \ \mathsf{high}\mathsf{-speed} \ \mathsf{response}$
- Operation status indicator (blue LED)
- $\bullet \ \, \text{Convenient SSR removal with ejector clip (except 1-point type)}$

Certifications may vary by model.

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Cables / Connectors / Socket



PT Series

Sensor Distribution Boxes

- 4-pin / 5-pin M12 connector type
- · Supply power to multiple sensors using a single power supply
- Simplify complicated wiring and maintenance work
- Check operation status with LED indicators (green, red LED)
- Waterproof cover (IP67 protection structure), protection cover (IP52 protection structure)

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M8 / M12 / M17 / M23 Series

Connector cables

- M8 Connector type 4-pin models available
- M12 Connector type 4-pin / 5-pin / 8-pin / 12-pin models available
- M17 Connector type 6-pin / 9-pin / 13-pin models available
- M23 Connector type 12-pin / 19-pin models available
- ※ Certifications may vary by model.

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CH / CO Series

I/O Terminal Block Cables

- Diverse cables available for connection to various PLCs and controllers
- Diverse cable lengths for various user requirements
- Customizable cable arrangement
- Customizable branching cable types





D-sub Series

D-Sub Connector Communication Cables

- D-Sub 9-pin Connector type available
- Available in various wire connection



M12 Series

M12 Connector Communication Cable

- M12 Connector type 8-pin model available
- Various cable length (2 m, 5 m, 10 m)
- Available in I-type connector, L-type connector type
- ${\boldsymbol{\cdot}}$ Standard and moving type cables available
- IP67 protection structure (IEC standard)

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CV Series

Valve Plug Cables

- DIN 43650 Type A, Type C connector available
- · Various cable length (1 m, 2 m, 5 m, 10 m)
- Available in I-type connector, L-type connector, cable type
- Operation indicator (green LED)
- IP67 protection structure (IEC standard)

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CNE Series

Sensor Connectors

- Significantly reduce installation work and time
- Wide range of connectors compatible with diverse cables and wires
- High density connection with contact pitch of 2 mm
- Compatible with e-CON connectors
- 3A current capacity for each pin

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PS / PG Series

8-Pin / 11-Pin Controller Sockets

- Excellent heat resistance
- \bullet Copper alloy contacts for excellent electrical conductivity and high durability
- · Isolated contacts (PG)
- Easy one-touch mount installation (PS)

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CONTROL SWITCHES

Extensive range of control switches are available including push buttons, selector switches, emergency switches, pilot lights, buzzers, and more.

Control Switches



Control Switches



S16PR / S2PR / SQ3PFS / S3PF / S3PR Series

Push Button Switches

- Ø16 / 22 / 25 / 30, □30
- · Smooth operation
- High electrical conductivity
- · Long-lasting durability

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S16SR / S2SR / S3SF Series

Selector Switches

- Ø16 / 22 / 25 / 30
- Smooth operation
- · High electrical conductivity
- · Long-lasting durability

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S16KR / S2KR / S3KF Series

Key Selector Switches

- Ø16 / 22 / 25 / 30
- Smooth operation
- · High electrical conductivity
- Long-lasting durability

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S2TR Series

Double Push Button Switches

- Smooth operation
- High electrical conductivity
- · Long-lasting durability

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S16BR / S2BR Series

Mushroom-Head Push Button Switches

- Ø16 / 22 / 25
- Smooth operation
- High electrical conductivity
- · Long-lasting durability

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S16ER / S2ER Series

Emergency Switches

- Ø16 / 22 / 25
- Smooth operation
- High electrical conductivity * Certifications may vary by model.

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L16RR / L2RR / LQ3RF / L3RF Series

Pilot Lights

- Ø16 / 22 / 25 / 30, □30
- Smooth operation
- · High luminance LED
- Available in various colors

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MN Series

Magnetic Non-Contact Switches

- Non-powered magnetic detection method
- Two wiring specifications of cable / cable connector type
- Available to install at back-forth / right-left moving door
- IP67 protection structure (IEC standard)

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B7VA / B2NB / B2PB / B6MA

Buzzers

- Magnetic Buzzers (B2NB) : Clear and loud sound : up to 87 ±10 dB (at 0.1m)
- Piezo Buzzers (B2PB): Red or green LED flashing when buzzer is operating
- $\bullet \ \mathsf{Melody} \ \mathsf{Buzzers} \ (\mathsf{B6MA}) : \mathsf{4} \ \mathsf{different} \ \mathsf{melodies} \ (\mathsf{ambulance}, \mathsf{police} \ \mathsf{siren}, \mathsf{phone} \ \mathsf{ring}, \mathsf{F\"{u}r} \ \mathsf{Elise})$
- Voice Buzzers (B7VA)

: Internal / external memory type models available

※ Certifications may vary by model.

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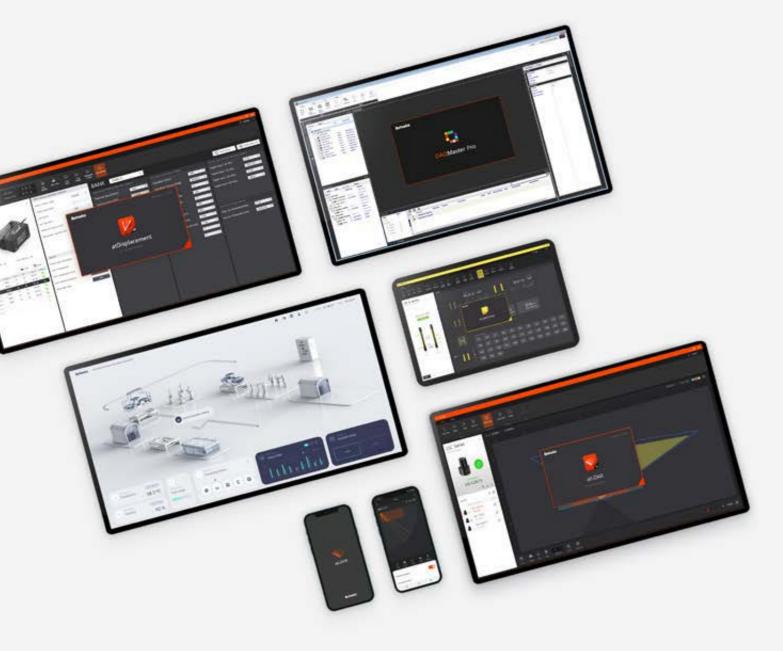
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SOFTWARE

Autonics software allows users to configure parameters, monitor status, program control processes with various Autonics devices.

Software



Software



DAQMaster

Comprehensive Device Management Software

- Multiple device support
- Scan for devices
- Simple graphic user interface
- Project management
- Data analysis using grids or graphs



atVision / Vision Master

Vision Software for VC / VG Series

- Various inspection functions: alignment, brightness, contrast, area, edge, shape, length, angle, diameter, object counting, (barcode, OCR, OCV, patterns for VC series)
- Set up to 32 or 64 separate workgroups (multiple inspection points per workgroup)
- Workgroup management and parameter setting
- Send saved image data to FTP servers



atIOLink

IO-Link Software

- 10-Link master port
- Easily monitor connected devices and set port operation modes and functions
- \bullet 10-Link device parameter setting and IO-Link device real-time monitoring
- Input / output process data of IO-Link devices can be monitored in real time
- IO-Link device maintenance



atLightCurtain

Safety Light Curtain Software

- Intuitive graphic user interface
- · Light curtain operation status monitoring
- Monitor amount of light received
- Monitor connection and switches
- Monitor errors and warnings
- Supports safe distance calculation function



atLiDAR

Laser Scanner Software

- · Convenient user interface
- Parameter management
- Data log monitoring
- Data analysis
- Multi-language support

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atDisplacement

Laser Displacement Sensors Software

- Dedicated software for use with BD-C series
- : Graphic user interface, parameter settings and data monitoring of BD amplifier units
- Check profiles of connected devices through status window
- Monitor real-time data, graph, and wave pattern graphs



atDistance

Distance Measurement Software

- Dedicated software for UTR series ultrasonic sensors to monitor status in real-time
- Intuitive graphic user interface
- Various detection functions
- : Various parameter configuration including output method switch, digital output operation mode switch, output mode switch and filter setting, and hysteresis setting
- Check previous data with saved logs



atMotion

Motion Control Software

- Supports Multiple Devices
- Monitor operation status of multiple devices and set parameters for each device
- When multiple units with different addresses are connected, the address scan function provides
- Simple Graphic User Interface
- Freely edit screen data to set parameters, monitor devices, and program control
- Monitor operation status and history using DAQ Space (Line Graph, Grid)
- Multilingual Support



atLogic

HMI Logic Programming Software for LP Series

- Supports multiple projects
- Open up to 5 projects to create or edit programs simultaneously
- $\bullet \ \hbox{Convenient program editing}$
- Various monitoring functions
- Variable monitoring, device monitoring, system device monitoring, etc.
- Convenient user interface
- \bullet Real-time switching between ladder and mnemonic program



atDesigner

HMI Screen Editor Software for LP / GP-A Series

- Convenient user interface
- Supports Windows TrueType fonts and various bitmap fonts
- $\bullet \ \mathsf{GP} \ / \ \mathsf{LP} \ \mathsf{hardware} \ \mathsf{firmware} \ \mathsf{upgrades}$
- Project conversion feature
- Easily convert LP / GP-S series projects to LP / GP-A series projects
- Diverse image library provided

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Products

Sensors, Controllers, Motion Devices, Safety, Measuring Equipment, Connection Equipment and more

- Photoelectric Sensors Photomicro Sensors Fiber Optic Sensors Displacement Sensors LiDAR Ultrasonic Sensors Door Sensors
- $\bullet \text{ Area Sensors} \bullet \text{ Proximity Sensors} \bullet \text{ Linear Positioning Sensors} \bullet \text{ Rotary Encoders} \bullet \text{ Temperature Sensors} \bullet \text{ Temperature Transmitters}$
- $\bullet \ Pressure \ Sensors \ \bullet \ Pressure \ Transmitters \ \bullet \ Smart \ Camera \ \bullet \ Vision \ Sensors \ \bullet \ Safety \ Light \ Curtains \ \bullet \ Safety \ Door \ Switches \ \bullet \ Safety \ Switches \ One \ Switches \ \bullet \ Safety \ Switches \ One \ Switches \ \bullet \ Switches \ One \ One \ Switches \ One \ Switches \ One \ Switches \ One \ One \ Switches \ One \ Switches \ One \ One$
- $\bullet \, \text{Safety Controllers} \, \bullet \, \text{Safety I/O Terminal Blocks} \, \bullet \, \text{Temperature Controllers} \, \bullet \, \text{Solid State Relays} \, \bullet \, \text{Power Controllers} \, \bullet \, \text{Counters} \, \bullet \, \text{Timers}$
- Digital Panel Meters Digital Display Units Sensor Controllers SMPS Industrial PC HMIs Recorders Indicators Network Converters
- Closed Loop Stepper Motor System 5-Phase Stepper Motor & Drivers 2-Phase Stepper Motor Drivers Motion Controllers
- $\bullet \ \, \text{Industrial Networking} \, \bullet \, \text{I/O Terminal Blocks} \, \bullet \, \text{Distribution Boxes} \, \bullet \, \text{Cables} \, \bullet \, \text{Control Switches} \, / \, \, \text{Pilot Lights} \, / \, \, \text{Buzzers} \, \bullet \, \, \text{Software}$