

Sensors

Controllers

Stepping motors/drivers

Motion controllers



Products Guide

Products Guide
Products Guide

Autonics
Sensors & Controllers



Economical PID Control Temperature Controllers

TC Series

NEW

- Realizing 100ms high speed sampling
- Relay output and SSRP output embodied together
: SSRP output makes phase control and cycle control possible
- Improved visibility with wide display and high luminance LED
- Space saving mounting with compact design
: downsized by 38% in depth(60mm)
- PV/SV deviation indicatable



Digital Switch PID Control Temperature Controllers

TD Series

NEW

- Digital switch application to PID control temp. controller
- Realizing 100ms high-speed sampling
- SSR drive output / Relay output and SSR drive output / Current output selectable
- Improved visibility with wide display and high luminance LED
- Space saving mounting with compact design
: downsized by 38% in depth(60mm)



UL US

Freezing/Defrost Temperature Controllers

TC3YF Series

- Various delay functions for optimal freezing control (Auto/Manual Defrost function, Compressor start-up delay, Re-operation delay, Minimum ON time, defrost-end delay and evaporation-fan operation delay)
- Operation cycle setting available for compressor protection in case of error

Simple Type Temperature Controller

TC3YT Series

- Simple and economical type
- Finger safety type terminal



UL US CE
(Except for LR5N)

LCD type compact Counter/Timer/Pulse meters

LA8N, LE8N, LR5N Series

- Long & replaceable internal lithium battery (Battery life cycle: LA8N - 7 yrs/ LE8N - 10 yrs/ LR5N - 3 yrs)
- 7 segment LCD display (LA8N/LE8N: 8 digit, LR5N: 5 digit)
- Screw Terminal type(Terminal protection cover)
- Protection structure IP66(Front panel only)



UL US CE



Multi functional Counter/Timers

CT Series

- Multi-functional Counter/Timer (Includes 829,728 functions)
- High speed counting of 10kcps
- Prescale function
- Batch counter function(CT6, CT6-2P only)
- Individual ON/OFF time setting in Flicker(FLK) mode
- Selectable Voltage input(PNP) or No voltage input(NPN)
- Key Lock function
- Protection structure IP66(Front panel only)



Digital LCD Timers

UL US CE

LE3S, LE4S Series

- High visibility LCD display with backlight(LE4S)
- Built-in battery allows memory protection and setting value change(LE4S)
- Graphic display for output contact status(LE3S)
- Power supply: 24-240VAC 50/60Hz, 24-240VDC

Weekly/Yearly Timers

UL US

LE7M-2, LE365S-41

NEW

- Weekly/Yearly unit program setting and control
- Program unit check, change and delete function
- Various mounting selections available
 - : Panel Flush/Exposed/DIN Rail Mounting available

UL US CE



Digital Pulse Meters

MP5 Series

- 13 kinds of various operation modes
 - : Revolution, Speed, Frequency etc.
- Max. display range : -19999 ~ 99999 (MP5M: 0~99999)
- 50kHz High speed response function
- Various output modes
 - : Relay, NPN, PNP, BCD, PV transmission (DC4-20mA), RS485, Low speed serial
- Various function
 - : Max./Min. value monitoring, Data monitoring, Prescale, Hysteresis width setting, Auto zero time setting etc.

CE



Multi Panel Meters

MT4 Series

- Super version of panel meter
- AC frequency measurement function
 - : 0.1 ~ 9999Hz
- High/Low scale function
- Max. display range : -1999 ~ 9999
- Max. Measuring input
 - MT4Y/W : 500VDC, 500VAC, 5ADC, 5AAC
 - MT4N : 50VDC, 250VAC, DC500mA, 5AAC
- Output
 - : RS485(MODBUS), NPN, PNP, Relay, PV transmission(DC4-20mA), Low speed serial(MT4Y, MT4W), BCD(MT4Y, MT4W)



CE

Cylindrical/Rectangular Type Proximity Sensors

PR, PRD, PS Series

NEW

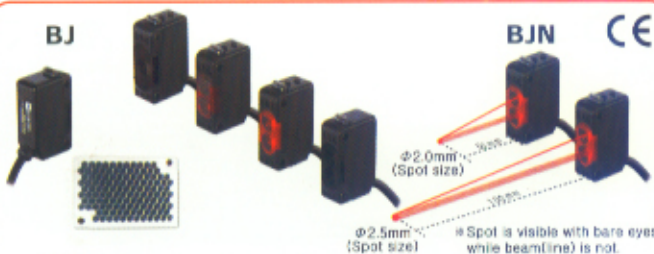
- World class noise resistance by adopting dedicated IC
- Realizing 1.5~2 times long distance sensing performance (PRD Series)
- Long life cycle, High reliability and Easy operation
- Built-in surge protection circuit
- IP67(IEC standard)



Electric Capacitive Type Proximity Sensors

CR Series

- Able to detect iron, metal, plastic, water, stone, wood etc
- Long life cycle and High reliability
- Easy to adjust of the sensing distance with built-in sensitivity adjustment volume
- Easy to control of level and position



Compact and amplifier built-in Photoelectric Sensors

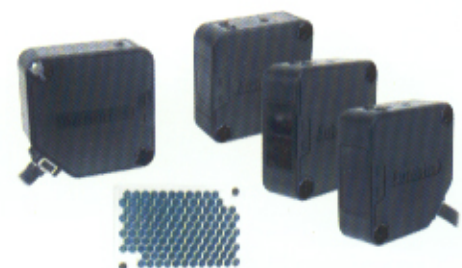
BJ Series

- High performance lens: Transmitted 15M, Polarized retro-reflective 3M, Diffuse reflective 1M
- Adjacent installations possible with auto mutual interference prevention function
- M.S.R(Mirror Surface Rejection) function Embodied(BJ3M)
- Stable detection for transparent objects(LCD, PDP, glass etc) by BJG30-DDT
- IP65(IEC standard)

BJN Series

NEW

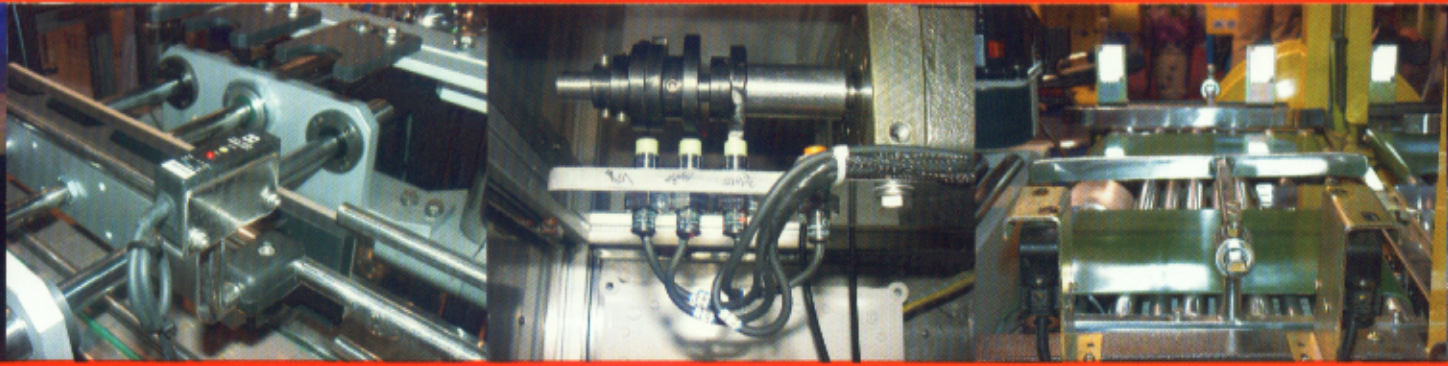
- Micro-spot type
- High accuracy sensing for minute object
- Light source: Red LED
- Compact size: W20 x L10.6 x H32mm
- IP65(IEC standard)



Amplifier built-in Photoelectric Sensors

BEN Series

- Built-in IC photo diode for ambient light and electrical noise.
- Small and universal voltage type
- Easy installation with LED indicators on product.
- Able to check the operation status by stable LED indicator and output LED indicator
- IP65(IEC standard)



CE

Cylindrical (ϕ 18mm) Type Photoelectric Sensors

BR, BRP Series

- Detects up to 20m(Transmitted beam type)
- Noise resistant with digital signal processing
- 1ms High speed response time (Diffuse reflective)
- External sensitivity adjustment (Diffuse reflective type)
- Narrow beam type diffuse reflective sensor using in a narrow space
- IP66(IEC standard)

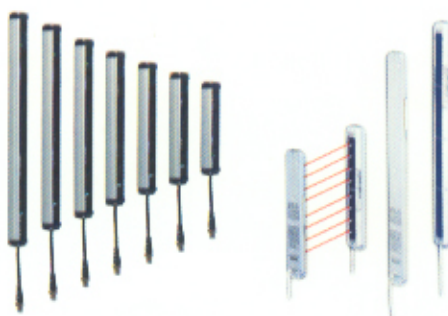


CE

Fiber Optic Sensors

BF4R(Red LED), BF4G(Green LED) Series

- High speed response: Under 0.5ms
- Able to detect small targets and mount to tiny place.
- Auto sensitivity setting(Button setting)/ Remote sensitivity setting.
- External synchronization input function, Mutual interference protection, Self diagnosis function.

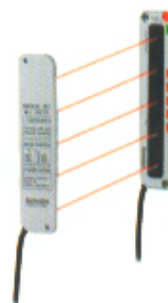


CE

Area Sensors

BW, BWP Series

- Long sensing distance: Max.7M(BW)
- 13mm slim body and plastic case(BWP)
- Beam pitch: 20, 40mm
- Sensing height: 120~940mm
- Output type: NPN/ PNP open collector output
- Light ON fixed(BW), Light ON/ Dark ON selectable(BWP)
- Overcurrent protection, Reverse polarity protection, Self-diagnosis function
- IP65 for BW(IEC standard)

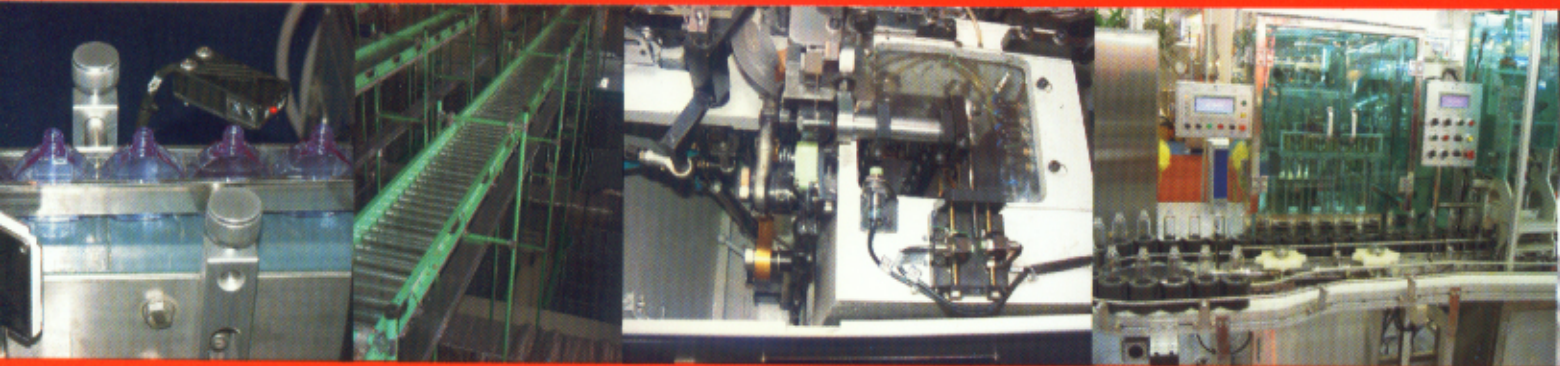


CE

Picking Sensors

BWPK Series

- Slim body(W30 x T10 x H140mm)
- Plastic injection case
- Wide range of sensing distance (0.1~3m, 0.05~1m)
- Mutual interference prevention(FREQ A/B)
- Picking indicator included
- IP40(IEC standard)



CE



Pressure Sensors

PSA, PSB Series

- High resolution: 1/1000
- Vacuum, Standard, Compound pressure type
- Various output mode
: Hysteresis, Automatic sensitivity setting, Individual 2 output, Window comparative
- Analog output voltage: 1-5VDC \pm 2% F.S
- Various function: Zero adjustment, Chattering protection, Peak and Bottom hold display
- Built-in protection circuit for reverse power polarity, oversurrent
- IP40(IEC standard)



Temperature/ Humidity Transducers

THD Series

- Various mounting styles available (Duct mount/ Wall mount/ Indoor)
- Input: Temperature/ Humidity sensor
- Built-in high sensitivity temp./Humidity sensor
- Wide range of temp./Humidity measurement : -19.9~60.0°C, 0.0~99.0%RH
- Communication speed 115,200bps
- 7 Segment LED Display(THD-DD/THD-WD)
- Various output type: DC4-20mA, 1-5VDC, RS485(MODBUS RTU)

CE



Incremental Shaft/Hollow/ Built-in Type Rotary Encoders

E□S, E□H Series

NEW

- Resolution(P/R): 1~10,000 PPR
- Shaft diameter(ϕ): 6, 8, 10, 12mm
- Hollow diameter(ϕ): 6, 8, 10, 12, 30, 32, 35mm
- Maximizing user's convenience with axial/radial connector(E50S-C)
- Power supply: 5VDC, 12-24VDC \pm 5%
- IP50, Customizable as IP64, Connector integrated type: IP65(IEC standard)

(Except for ENH Series) CE



Rotary Encoders Side-mounting Shaft Type

ENA Series

- Reinforced die-cast structure against external shock • IP50(IEC standard)

Measuring Wheel Type

ENC Series

- Suitable for measuring length and speed of serially conveyed objects
- Min. measuring unit: 1mm, 1cm, 1M, 0.01yd, 0.1yd, 1yd • IP50(IEC standard)

Manual Handle Type

ENH Series

- Suitable for manual pulse input type such as Numerically controlled or Milling machinery
- Terminal connection type



CE

European Standard Shaft/Flange Type(ϕ 58mm)Rotary Encoders

E58, EP58 Series NEW

- Diverse appearance supported
 - Shaft/ flange type : shaft clamping type, shaft synchro type, hollow shaft built-in type and hollow shaft type(in case of hollow shaft type, incremental type only)
 - Wiring : axial/ radial connector type, cable outgoing connector type and cable outgoing type (in case of hollow shaft type, axial cable outgoing type only)
- Maximizing use's convenience with front nut mounting style design
- IP50(IEC standard)



CE

5 Phase Stepping Motors

AK, AHK Series

- High speed, accuracy and torque
- Pentagon & Standard connection type
- Various types: Shaft, Hollow Shaft, Brake, Geared, Geared-Brake, Rotary actuator, Rotary actuator-Brake
- Various frame size: 24, 42, 60, 85mm
- Rated current: 0.75, 1.4, 2.8A/phase



2 Phase Stepping Motors

AK-2 Series

- Unipolar hexagon wiring type
- Various frame size: 39, 42, 56mm
- Simple wiring adopting connector type (42, 56mm)

CE

(Except for MD5-HF28)



5 Phase Stepping Motor Drivers

MD Series NEW

- Bipolar constant current pentagon drive type
- Max. 250 divisions(Except MD5-ND14)
- Available low-speed revolution and super-precision control with a micro-step drive.
- Auto current setting, self test, user's run/stop current setting, zero point excitation output provided

2 Phase Stepping Motor Drivers

MD2U Series

- Unipolar constant current pentagon drive type
- Low speed and precise control with microstep
- Available brake function adjusting STOP current

CE



Programmable Motion Controllers

PMC Series

- Max. 4MHz high-speed operation
- 4 operation modes: Scan, Continuous, Index, Program
- 12 control command and 64 steps of operations
- Parallel I/O terminal connectable on PLC
- Operation program by exclusive SW, making and editing parameter
- Easy operation of X, Y stage with joy stick
- Remote control with RS232C port for all types
- Teaching and monitoring function by using teaching unit(PMC-2TU-232: Sold separately)