mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FIBER SENSORS

LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

SAFETY COMPONENTS PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY

SENSORS

SENSOR OPTIONS SIMPLE WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

LIGHT CURTAINS /

Thru-beam Type Ultrasonic Sensor US-N300







• Never use this product as a sensing device for personnel protection.

In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

panasonic.net/id/pidsx/global

Suitable for detecting transparent films or transparent bottles

APPLICATIONS

transparent glass

MEASUREMENT SENSORS STATIC ELECTRICITY PREVENTION DEVICES LASER MARKERS

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide Wafer Detection Liquid Leak Detection Water Detection Water Detection Color Mark Detection Hot Melt Glue Detection

Small / Slim Object Detection Obstacle Detection Other Products

US-N300

PLC



Detecting transparent film or



Detecting transparent bottles

Detecting transparent and opaque objects



SPECIFICATIONS

Thru-beam
US-N300
300 mm 11.811 in
Transparent, translucent or opaque object: 20 × 20 mm 0.787 × 0.787 in or more, Hole: 10 × 10 mm 0.394 × 0.394 in or more
12 to 24 V DC ±10 % Ripple P-P 10 % or less
Transmitter: 35 mA or less, Receiver: 35 mA or less
NPN transistor universal • Maximum sink current: 100 mA • Residual voltage: 1 V or less (at 100 mA sink current)
Selectable either sound-received-ON or sound-blocked-ON by the control input
5 ms or less
Continuously variable adjuster
220 kHz approx.
IP62 (IEC)
0 to +50 °C +32 to +122 °F (No dew condensation), Storage: -25 to +70 °C -13 to +158 °F
Enclosure: Polycarbonate
Transmitter: 80 g approx., Receiver: 85 g approx.
MS-N30 (Sensor mounting bracket): 1 set for transmitter and receiver, Adjusting screwdriver: 1 pc.

Note: Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

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LIGHT CURTAINS / SAFETY COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

I/O CIRCUIT AND WIRING DIAGRAMS

I/O circuit diagram



Symbols D1: Reverse supply polarity protection diode
Do: Boyoroo ourront protoction diado
D2. Reverse current protection diode
ZD: Surge absorption zener diode
Ir : NPN output transistor
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DIMENSIONS (Unit: mm in)

The CAD data in the dimensions can be downloaded from our website.

US-N300 ۲ 12.6 0.49 12.1 0.476 4 Sensitivity adjuster (receiver only) 8.3 7.4 Operation indicator (Red) (Receiver only) -20 0.78 (2) (0.079) 28 + 16 0.630 13 .51 60 243 7.5 0.295 2-M4×0.7 0.028 thru-hole threads 1 4 0.157 μ vø4.8 ø0.189 cable, 2 m 6.562 ft long Selectior Guide ø13 90.51 Wafer Detection -20-0.78 Liquid Leak Detection **MS-N30** Sensor mounting bracket (Accessory) Liquid Level Detection 20 Assembly dimensions Water Detection 4.3 12 0.157 0.169 Color Mark Detection



Material: Cold rolled carbon steel (SPCC) Two M4 (length 15 mm 0.591 in) screws with washers are attached.



Hot Melt Glue Detection

Small / Slim Object Detection

Obstacle Detection