Thru-beam Type Ultrasonic Sensor
US-N300

Related Information	■ General terms and conditions........... F-17	■ Sensor selection guide...................P.831~
	■ General precautions...................... P.1405	

⚠ • 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.

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Suitable for detecting transparent films or transparent bottles

■ SPECIFICATIONS

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

Item	Type	Thru-beam
	Model No.	**US-N300**
Sensing range		300 mm 11.811 in
Sensing object		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
Supply voltage		12 to 24 V DC ±10 % Ripple P-P 10 % or less
Current consumption		Transmitter: 35 mA or less, Receiver: 35 mA or less
Output		NPN transistor universal • Maximum sink current: 100 mA • Residual voltage: 1 V or less (at 100 mA sink current)
	Output operation	Selectable either sound-received-ON or sound-blocked-ON by the control input
Response time		5 ms or less
Sensitivity adjuster		Continuously variable adjuster
Transmission frequency		220 kHz approx.
Protection		IP62 (IEC)
Ambient temperature		0 to +50 °C +32 to +122 °F (No dew condensation), Storage: –25 to +70 °C –13 to +158 °F
Material		Enclosure: Polycarbonate
Net weight		Transmitter: 80 g approx., Receiver: 85 g approx.
Accessories		**MS-N30** (Sensor mounting bracket): 1 set for transmitter and receiver, Adjusting screwdriver: 1 pc.
Dimensions		W28 × H60 × D20 mm W1.102 × H2.362 × D0.787 in

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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