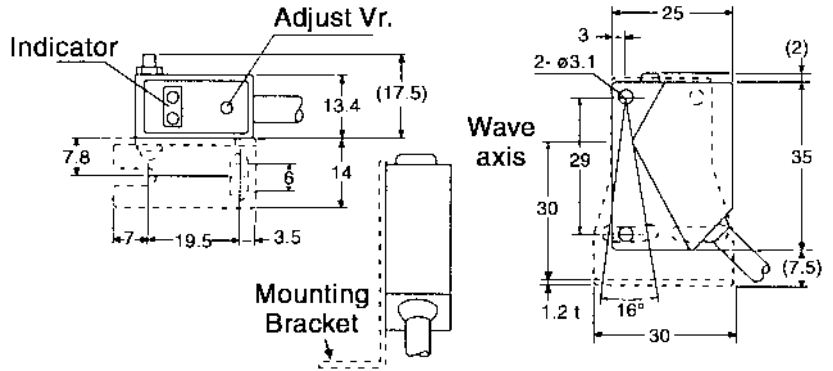




- Ultrasonic Sensor with Built-in Amplifier
- Uses Micro Ultrasonic Elements
- Compact Size—.98" x 1.4" x .52"
- 7851—Easily Detect Food Wrapping Cling Film, Plastic Containers, Glass etc.
- 20 Inch Sensing Range
- NPN or PNP Output

### DIMENSIONS (INCHES)

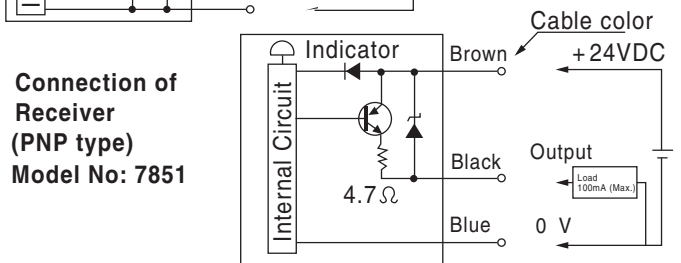
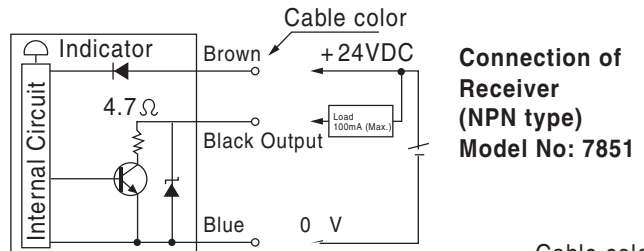
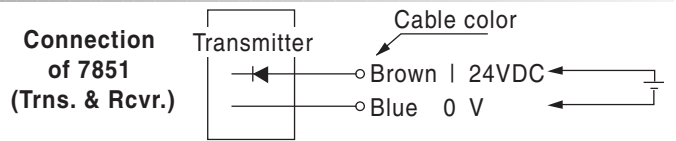


## Ultrasonic Sensor

### SPECIFICATIONS

MODELS	Set model	7851	7851
	Transmitter	7851AT4X3NNX	7851AT4X3NPX
Receiver	7851AR4X3NNX	7851AR4X3NPX	
DETECTION	Through-beam		
DETECTION RANGE	20 in. (50cm) (Max.)		
OBJECT RESOLUTION	0.4 in. 1.1 in. (10 X 30mm)		
POWER SUPPLY	24 VDC ±10%, Ripple 10% (Max.)		
CURRENT CONSUMPTION	Transmitter	25mA (Max.)	
	Receiver	15mA (Max.)	
OPERATING MODE	Wave-OFF		
OUTPUT MODE	NPN	PNP	
	Open Collector Rating: Sink Current 100mA 30 VDC (Max.)	Open Collector Rating: Source Current 100mA 30 VDC (Max.)	
RESPONSE TIME	10ms (Max.)		
HYSTERESIS	—		
SENSITIVITY ADJ.	Sensing Vr.		
INDICATOR	OP.L: Red LED. Stability: Green LED		
ULTRASONIC WAVE FREQUENCY	360kHz ±15kHz		
WAVE DEVIATION	20°		
CONNECTION	Flying lead	Outer dia.— .15 in. (4mm)	
	Trns.	0.2sq 2 cores 2m	
	Rcvr.	0.2 3 cores 2m	
WEIGHT (MAX.)	80g each		
ENVIRONMENT			
Operating Temp.	-10 to +55°C (Excluding uneven temperature in the air where ultrasonic oscillation transfers)		
Humidity	35 - 85%RH		
Case Protection	IP54 (No condensation on the ultrasonic element)		
Vibration	10 Hz-55Hz. ampl 1.5mm. 2Hr. X,Y,Z Directions		
Operating Velocity of Window	1m/sec. (Max.)		
Shock Resist	490 m/s 2Hr. X.Y.Z directions (excluding the ultrasonic element)		

### WIRING



MODEL NUMBER >>>>>>	7851A	S	4	X	3	N	X
Type							
System (Transmitter & Receiver)	S						
Operation							
Wave ON	4						
Delay							
No Delay	X						
Number of Wires							
Three Wire Receiver Two Wire Transmitter	3						
Power Requirements							
24 VDC	N						
Output							
Logic NPN	N						
Logic PNP	P						
Features							
Standard	X						