Simple color code sensor BS-602 User manual



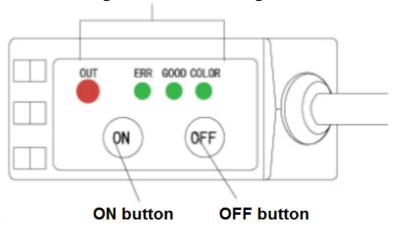
■ TECHNICAL SPECIFICATIONS

TYPE		THE CA	BLE TYPE	
MODEL		NPN		
		BS-602		
DETECTION DISTANCE		18 AND	28 MM	
THE POWER SUPPLY VOLTAGE		DC±10% PULSATION OF 24V BELOW P-P10%		
BATTERY CHARGE		POWER BELOW 850MW (24V POWER SUPPLY, CONSUMPTION CURRENT BELOW 35MA)		
MODE SWITCHING INPUT	COLOR SCALE MODEL	LOW(ON) 0 TO 0.6 V DC OUT OF THE CURRENT 0.5 UNDER THE MA THE INPUT IMPEDANCE ABOUT 10 K Ω	LOW (OFF) 0 TO 0. 6VDC OF OPEN	
	COLOR PATTERN	HIGH(OFF) 12 TO +VDC OR OPEN	HIGH(ON) 12 TO +VDC OR OUT OF THE CURRENT 3 UNDER THE MA THE INPUT IMPEDANCE ABOUT 10 K Ω	
THE OUTPUT		NPN OPEN COLLECTOR TRANSISTOR MAXIMUM INPUT CURRENT 50MA APPLIED VOLTAGE BELOW 30 V DC (BETWEEN THE OUTPUT AND OV) THE RESIDUAL VOLTAGE BELOW 1.5 V (WHEN THE CURRENT IS 50MA) *	PNP OPEN COLLECTOR TRANSISTOR MAXIMUM OUTFLOW CURRENT 50MA APPLIED VOLTAGE BELOW 30 V DO (BETWEEN THE OUTPUT AND +V) THE RESIDUAL VOLTAGE BELOW 1.5 V (WHEN THE OUTFLOW CURRENT IS 50MA)	
	COLOR SCALE MODEL	COLOR CODE IS DETECTED ON		
OUTPUT OPERATIONS COLOR PATTERN		IN ON		
SHORT CIRCUIT PROTECTION		EQUIP (AUTOMATIC RECOVERY)		
THE REACTION TIME		LESS THAN 200 MICROMETHODS		
THE ENVIRONMENT TEMPERATURE		-10 TO 55 DEGREES CELSIUS (DO NOT DEFROST OR FREEZE) STORE AT +20 TO +70 DEGREES CELSIUS		
ENVIRONMENTAL HUMIDITY		35 TO 85% RH STORAGE TIME : 35 TO 85% RH		
CAST LIGHT ELEMENT		RED/GREEN/BLUE COMPOSITE LED (PEAK WAVELENGTH OF EMITTING LIGHT :640NM/525NM/470NM)		
THE MATERIAL		SHELL: PBT OPERATION PANEL :PC OPERATION BUTTON: SILICONE LENS: PC		
CABLE		O. 2 MM SQUARE 4-CORE RUBBER CABLE STANDARD 2 M LONG DISTINGUISH (MATCH COLORS) BROWN:+V BLACK:OUT PINK: MODE CONVERSION INPUT BLUE: 0 V		
THE WEIGHT OF THE		ABOUT 110 G		

*SPECIFIED MEASUREMENT CONDITIONS: AMBIENT TEMPERATURE +23 ° C

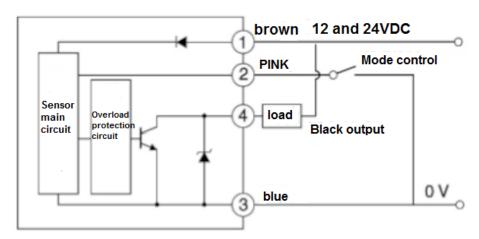
Name of each part

Working status indicator light

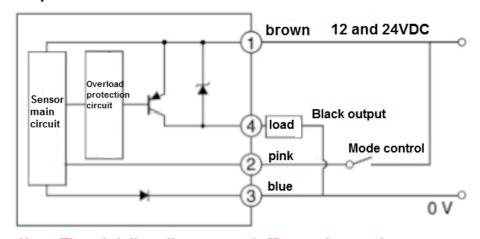


wiring

- NPN Output

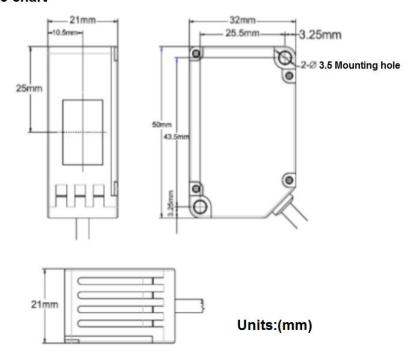


- PNP Output



Note:The pink line disconnect (off) to color mode The pink line on (on) for the color mode

Size chart



Teaching methods

Before setting for teaching to confirm color scale model or color set
 "Color" the green light is normally on color patterns, put out for color standard mode



- · Two set teaching way
- ①Sensors are projected to be light colour press "ON" button, the "GOOD" green light flashing。
- ②The light projected by the sensor presses the "OFF" button against the background color.
- ③In step ① and ② the threshold can be stable detection set between "GOOD" the green light is normally on, said starting test properly.
- In step (1) and (2) between the threshold is not stable detection set "ERR" three seconds after the red light flashing back to the last setting state.
- (a) If you want to switch the NO for NC output mode, the need to change the setting steps() and (2) of the order.
- Threshold regression adjustment
- ①Press the "ON" button for more than 5 seconds until ERR, GOOD and COLOR are flashing at the same time.
- ②Press the "OFF" button to adjust the return difference.

The relationship between the backslip state and the indicator light flashing is as follows:

STATE	INDICATOR LIGHT	THREE INDICATOR LIGHTS ARE
BACK TO THE SMALL DIFFERENCE	0 0	ONLY THE COLOR INDICATOR FLASHES
DIFFERENCE IN THE BACK	0 • •	BOTH THE GOOD AND COLOR LIGHTS ARE FLASHING AT THE SAME TIME
BACK TO THE DIFFERENCE		ERR, GOOD AND COLOR ARE FLASHING AT THE SAME TIME

Exit threshold return adjustment:

Under the condition of threshold error adjustment, press the "ON" button for more than 5 seconds until the three indicators including ERR, GOOD and COLOR stop blinking and are always ON. In other words, exit threshold error adjustment.

About error message prompt

When an error message occurs, handle it as follows.

INDICATOR STATE	"ERR" RED INDICATOR LIGHT IS ALWAYS ON AND WILL NOT GO OFF AUTOMATICALLY	
ERROR MESSAGE CONTENT	THE OUTPUT LINE LOAD SHORTED AND OVERCURRENT PASSED	
TO DEAL WITH	AFTER POWER OFF, CHECK OUTPUT LINE LOAD	

↑ Warning

- This product is only used for object detection. Do not use this product for the purpose of protecting human body or body parts.
- This product shall not be used as explosion-proof product. Do not use this product in dangerous places or in environments with potentially explosive gases.
- This product adopts DC power supply. Do not use ac power. If ac voltage is applied, the product may explode or catch fire.