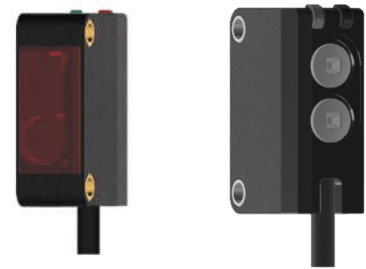


Product features:

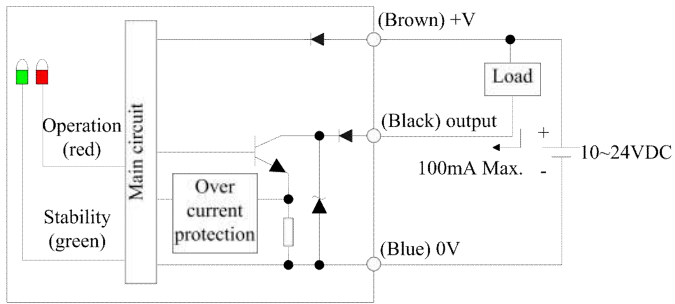
- Less sensitive to target color
- Ignores reflective backgrounds
- Sensitivity adjustable by teach-in
- Single device to be installed
- Small structure: 21.5*12*32mm



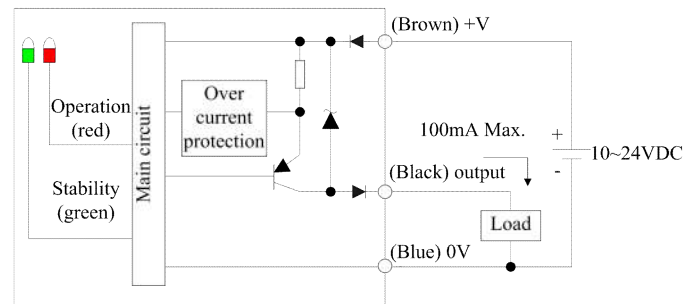
Specification:

Model	NPN	E3ZM-BGS30NL	E3ZM-BGS50NL	E3ZM-BGS100NL	E3ZM-BGS300NST	E3ZT-BGS300NST
	PNP	E3ZM-BGS30PL	E3ZM-BGS50PL	E3ZM-BGS100PL	E3ZM-BGS300PST	E3ZT-BGS300PST
Operation mode		Light on	Light on	Light on	Switch light on or dark on by knob	Switch light on or dark on by key
Sensing method		Background suppression				
Sensing distance		2~30mm	5~50mm	10~100mm	30~300mm	30~300mm
Standard object		100*100mm white paper			200*200mm white paper	
Distance adjustment		——	——	——	By knob	By key
Blind area		2mm	5mm	10mm	30mm	30mm
Black/white error		Max. 5% at rated sensing distance			Max. 10% at rated sensing distance	
Light source		Red LED/ Infrared				
Power supply		DC10-24V (voltage ripple of 10%(p-p)max.)				
Current consumption		25mA				
Load current		Max. 100mA				
Indicator		Operation indicator (red), stability indicator (green)				
Circuit protection		Power supply reverse polarity protection, Output short-circuit protection, and Output reverse polarity protection				
Response time		3ms				5ms
Ambient illumination		Incandescent lamp: 3,000lx Max.; Sunlight: 10,000lx Max.				
Ambient temperature		Operation: -20~55℃; Storage: -25~65℃ (with no icing and condensation)				
Ambient humidity		Operation: 35%~85%; Storage: 35%~95% (with no condensation)				
Insulation resistance		Min. 20MΩ (at 500VDC megger)				
Dielectric strength		AC1000V at 50/60Hz for 1 min. between current-carrying parts and case				
Vibration resistance		1.5mm amplitude at frequency of 10 to 55Hz in each of X,Y,Z direction				
Shock resistance		500m/s ² in X,Y,Z directions for 3 times				
Protection degree		IEC: IP65				
Connection method		Cable, φ3.8mm, length: 2m				
Line color definition		Brown: 10~24VDC, Blue: GND, Black: output				
weight		Approx. 50g				
Material		Case: PBT, lens: PMMA				

NPN open collector output

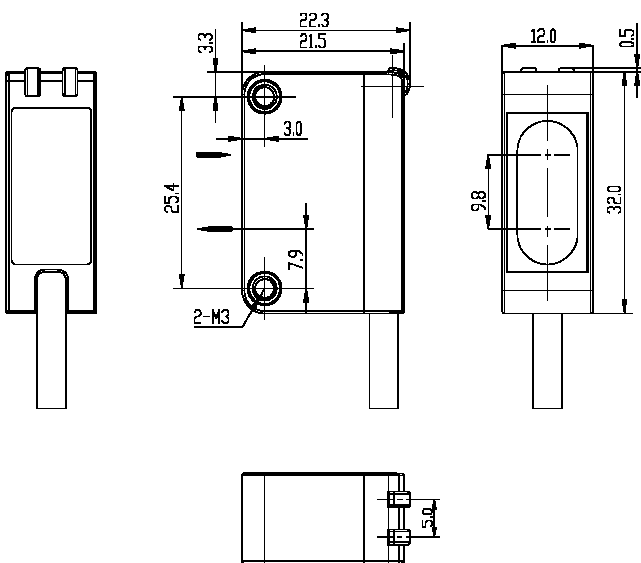


PNP open collector output

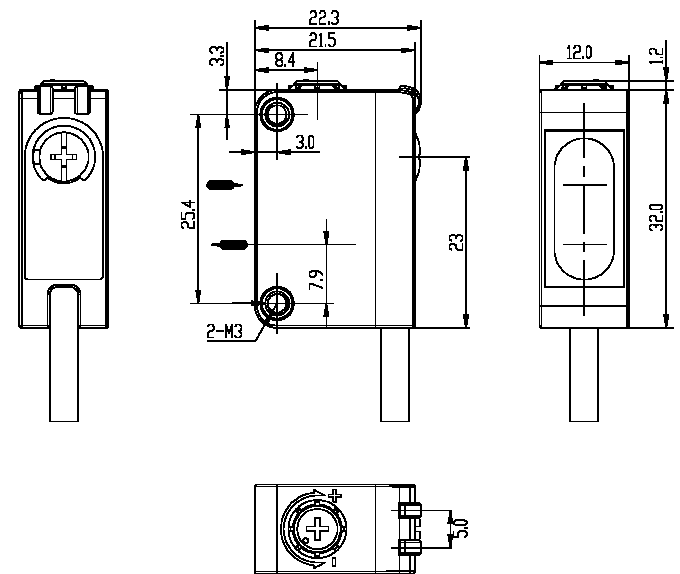


Dimension

• E3ZM-BGS□NL



• E3ZM-BGS300NST



• E3ZT-BGS300NST

Key 1: distance adjustment
Long press for 3 seconds: enter the automatic adjustment state to set distance
Short press: increase sensing distance shortly

Key 2: switch operation mode
Long press for 3 seconds: enter operation mode to switch light on or dark on
Short press: decrease sensing distance shortly

