

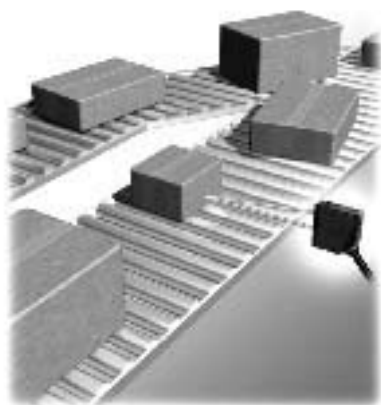
# EQ-500

## BGS / FGS FUNCTIONS MAKE EVEN THE MOST CHALLENGING SETTINGS POSSIBLE!

### The BGS function is best suited for the following case

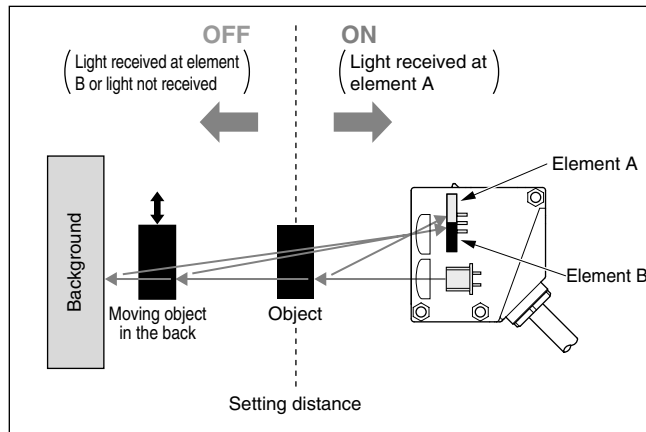
#### Background not present

When object and background are separated



#### BGS (Background suppression) function

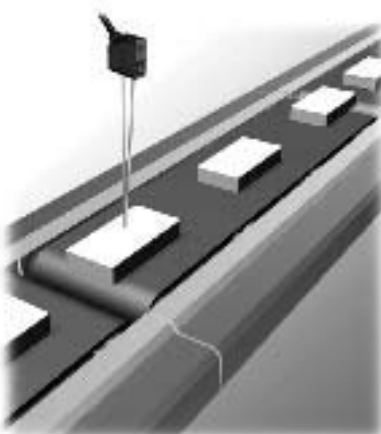
The sensor judges that an object is present when light is received at position A of the light-receiving element (2-segment element). This is useful if the object and background are far apart. Not affected if the background color changes or someone passes behind the conveyor.



### The FGS function is best suited for the following case

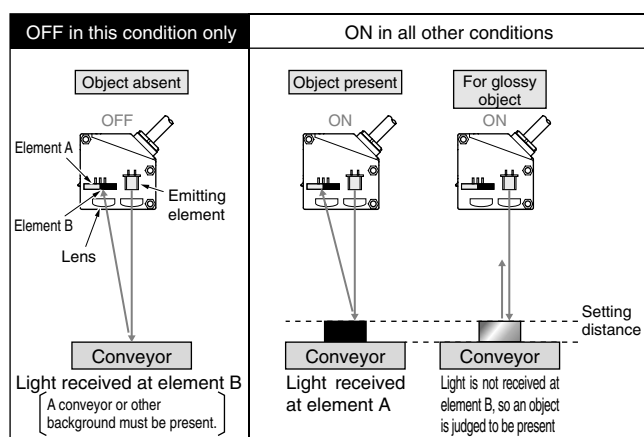
#### Background present

When object and background are close together  
When the object is glossy or uneven

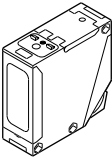

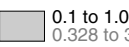
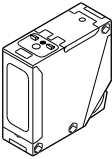

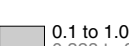


#### FGS (Foreground suppression) function

The sensor judges that no object is present when light is received at position B of the light receiving element (2-segment element) (The conveyor is detected). This function is useful if the object and the background are close together or if the object is glossy or uneven. However, sensing is impossible if there is no background (conveyor, etc.).



## OPTIONS

Type	Appearance	Sensing range	Model No.	Supply voltage	Output	Timer function
Multi-voltage		 0.1 to 2.5 m 0.328 to 8.202 ft	EQ-501	24 to 240 V AC ± 10 % or 12 to 240 V DC ± 10 %	Relay contact 1a	_____
			EQ-501T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)
		 0.1 to 1.0 m 0.328 to 3.281 ft	EQ-502			_____
			EQ-502T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)
DC-voltage		 0.1 to 2.5 m 0.328 to 8.202 ft	EQ-511	12 to 24 V DC ± 10 %	NPN open-collector transistor PNP open-collector transistor (Equipped with ) 2 outputs	_____
			EQ-511T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)
		 0.1 to 1.0 m 0.328 to 3.281 ft	EQ-512			_____
			EQ-512T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)

## OPTION

Designation	Model No.	Description
Sensor mounting bracket	<b>MS-EQ5-01</b>	Foot / back angled mounting bracket

### Sensor mounting bracket • MS-EQ5-01

Two M5 (length 30 mm 1.181 in)  
screws with washers and two  
nuts are attached.

