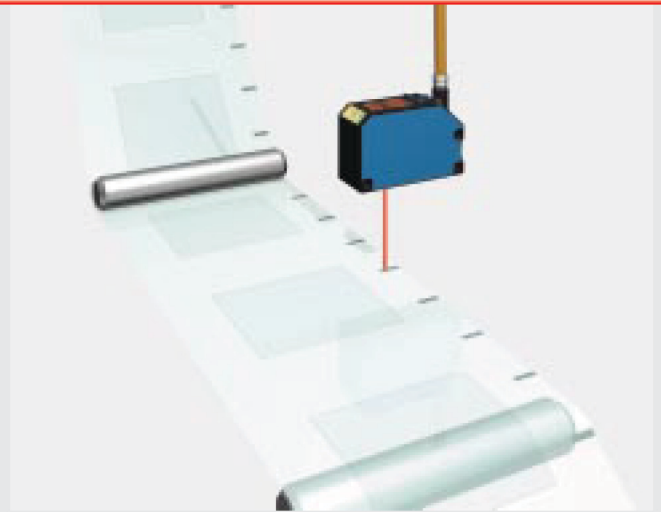


DM-18T series

RGB Mark Sensor DM-18T Range 18+/- 2mm

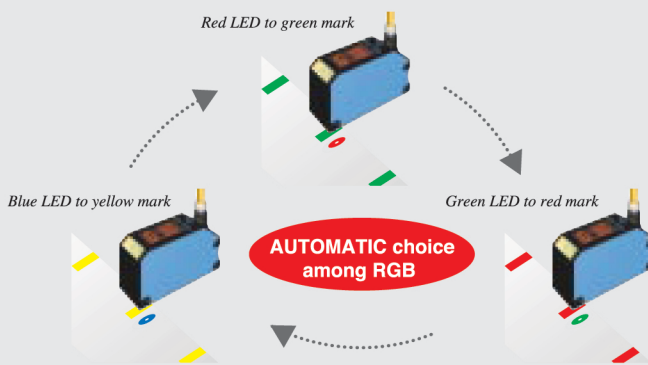
Red, Green, Blue. According to surface of object, internal microcomputer will automatically set the light source among these three colors. Both mark Mode and RGB Color Mode are available. DM series equips 8 banks for memory to minimize your time for changing process.



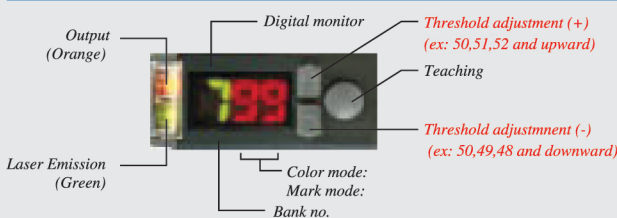
Automatic Choice of RGB light source

RGB, each element is implicated inside, and microcomputer will select the best light source to the specific object. Now you are free from making initial setting of sensor referring colors of workpiece.

DM-18T keeps on watching the contrast between background and object, therefore is capable of sensing between the colors that used to be a "problem workpiece".



Digital Display



Specification

MODEL	Mark / RGB Color type
Cable Type	DM-18TN (or 18TP)
M8 connector type	DM-18TCN (or 18TCP)
Scanning range	18 +/- 2mm
Spot size	1 X 6 mm/18mm
Range adjustment	Teach-in
Supply voltage	DC10-30V including 10% ripple (P-P)
Current consumption	35mA (12V), 25mA (24V)
Response time	Mark mode : H1/250µs, H2/500µs, L/1200µs Color mode : H1/800µs, H2/1600µs, L/4000µs
Timer	Off delay/On delay/One shot delay (10msec increment : 0-999msec, 1sec increment for 1-10 sec)
Light source	RGB LED
Indicator	Output indicator (orange), Stable detection (green)
Digital Indicator	7 segment, 3 digit Red and Green LED
Control output	NPN or PNP open collector DC30V 100mA max
Operation mode	Light/Dark On selectable
Ambient temp/humid	-25 to 55 C / 35-95% RH
Insulation resistance	20M Ohm or more (at 500V DC)
Protection category	IP67
Noise resistance	IEC, CE
Shock resistance	50G (500m/S ²), XYZ 3 directions
Environment luminance	Sunlight : 10,000 lux, Incandescent lamp : 3,000 lux max
Materials	Anti-bacterial ABS (housing), PMMA (lens)

8 Banks for Data Store

You can recall Maximum 8 banks that is possible to monitor and set through Remote Input.

Bank reference

Bank No.	Wire color		
	Green	Rose	Yellow
1	0	0	0
2	0	0	1
3	0	1	0
4	0	1	1
5	1	0	0
6	1	0	1
7	1	1	0
8	1	1	1

Remarks : 0 = Connect to +V, or leave unconnected
1 = Connect to 0V

Color Mode

To pick up a certain color to detect. Three element color (RGB) is continuously given, and the sensor computes color ratio among three of them. Therefore accuracy is given even to objects running on fluttering conveyor. One sensor plays two ways, one is Mark Sensing (Mark Mode) and another is Color Sensing (Color Mode).

