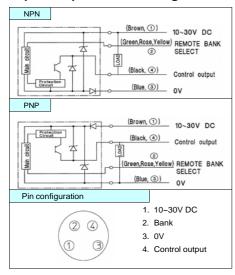
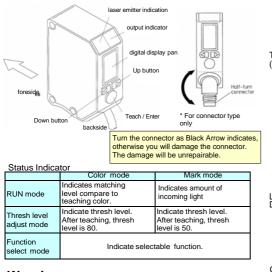


Input/Output Circuit Design



Parts Name



Warnings

For proper use

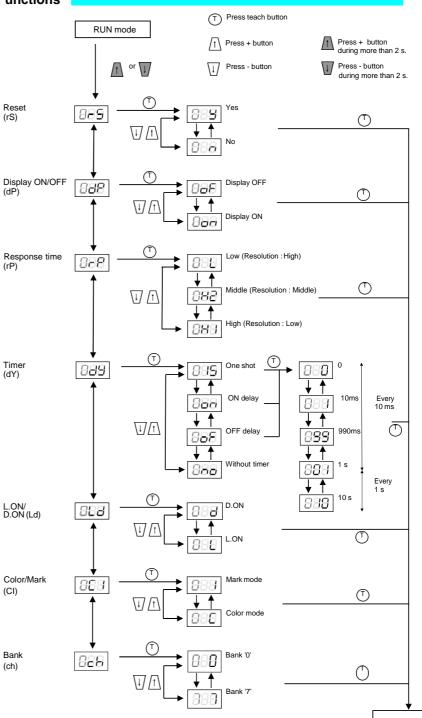
- Warm-up period (approx. 100 msec) must be secured.
- Should avoid using the sensor outside or at the place where receiver is influenced by environmental illuminance directly.
- Gaps in indicated values and detection features are possible due to dispersion.
 Use of controls or adjustments or performance of procedures other than the specified herein may result in hazardous radiation exposure.

! Must not use this item as safety equipment for the purpose of human body protection.

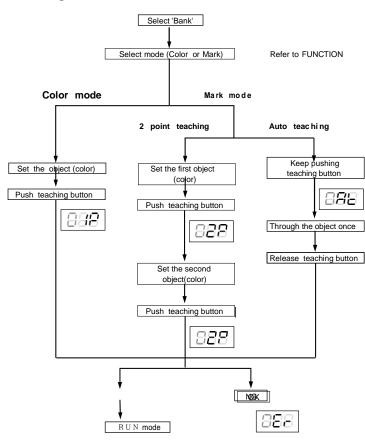
Specification

opeemeation			
Туре	Cable type	M8 Connector type	
	DM-18T (N,P)	DM-18TC (N,P)	
Scanning range	18mm ± 2mm		
Supply voltage	DC10 ~ 30V including 10% ripple (P-P)		
Current consumption	40mA max.		
Response time	Mark mode: 0.25/0.5/1.2ms selectable	Color mode: 0.8/1.6/4ms selectable	
Timer	Off delay / On delay / One shot delay (10msec increment :0-1,000msec, 1sec increment for 1-10sec)		
Light source	R (634nm) / G (517nm) / B (469nm)		
	Mark mode: 1 color (selected by teaching)	Color mode: RGB automatic selection	
Indicator	Output indicator (Orange LED), Stable indicator (Green LED)		
Digital indicator	7 segment, 3 digit LED Green: Bank No. Red: Function, Status		
Control output	NPN/PNP Open collector100mA max./ DC30V		
Operation mode	Light ON / Dark ON selectable		
Teaching	Mark mode: 2 point teach / Auto teac	h Color mode: 1 point teach	
Bank	8 bank		
Protection category/ material	IEC IP67 / Housing : heat-resistant ABS (antibacterial) Front cover : PMMA Button : TEEE		
Weight	Cable type: about 75g / Connector type: about 20g		

Functions



Response time, L.ON/D.ON, Color/Mark mode can be set for each Bank.



L.ON / D. ON

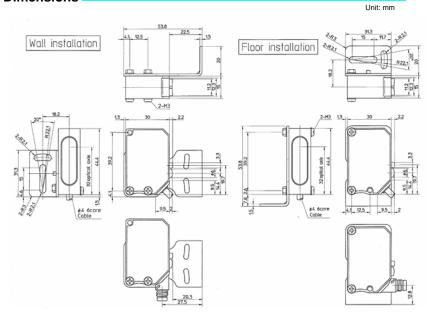
Color mode L.ON D.ON	Output is active when matched Output is active when un-matched
Mark mode L.ON D.ON	Output is active for high reflection Output is active for low reflection

When 2 point teach, the 1st selected color will be ON.

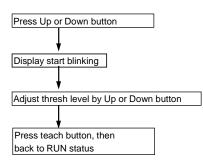
Key lock

Press both Up and Down button simultaneously for more than 2 sec.(Same procedure for unlock.)

Dimensions



Manual Adjustment of Threshold



If you don't press the Teach button, it will go back to RUN after 10 seconds.

Remote Bank Selection

Cable type

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

Connector type

Bank No.	No. 2 pin
0	0
1	1

Connector type can select only 1 and 2 by remote selection. (Function select by button is 8 banks.)

0	NPN	Open or connect to +V
	PNP	Open or connect to 0V
1	NPN	Connect to 0V
	PNP	Connect to +V

• Specifications and equipment are subject to change without any obligations on the part of manufacture.

• For more information, questions and comments regarding products, please contact us below.

Manufactured and sold by :

