

FWGS-20 Series

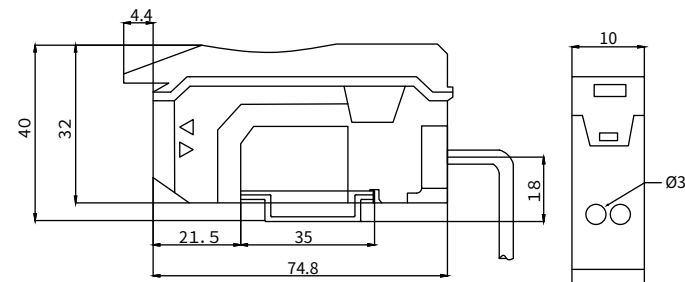
COLOR SENSOR



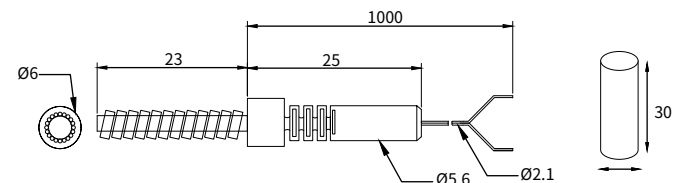
Specification

Model	FWGS-20N	FWGS-20P
Output Method	NPN Output	PNP Output
Type	1 output port, 1 synchronous input ports, lead out type	
Control Output	Brown:+V, Blue: 0V, Black: Signal, output White: external control line	
Light	White light, four element LED	
Detection Method	C mode, C1 mode, MARK mode	
reaction Time	MARK mode 50 μs. C or C1 mode 130 μs	
Output Selection	LIGHT-ON/DARK-ON	
supply Voltage	12~24VDC±10% Pulse P-P below 10%	
ambient Eemperature	-10~55°C (avoid condensation and frost) During storage:-20~70°C	
ambient Humidity	35~85%RH, During storage:35~85%RH	
Power Consumption	Standard mode: maximum 300mW maximum voltage: 24V	
Vibration Resistance	Dual amplitude:1.5mm,10~55Hz (2 hours each in X, Y, and Z directions)	

Dimensions



FWGS-20



M6 Fiber Optic Probe

Focusing Lenses

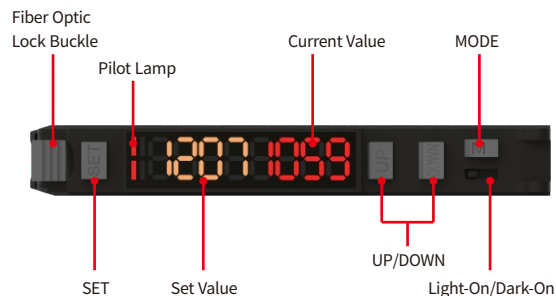
Safety Warning

- Do not use in an environment with flammable, explosive or corrosive gases.
- Do not use in an environment with oil or chemicals.
- Do not use in an environment with high humidity.
- Do not use in direct sunlight.
- Do not use under other environmental conditions that exceed the rated value.
- Do not disassemble, repair or modify the product without permission.

End-of-life Disposal

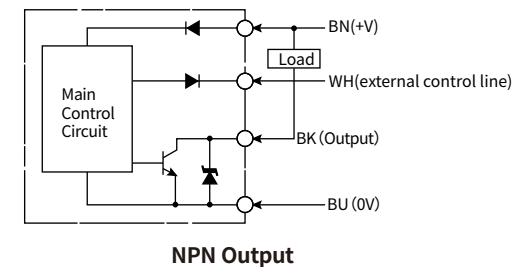
When the product is disposed of, please dispose of it as industrial waste.

Panel Introduction

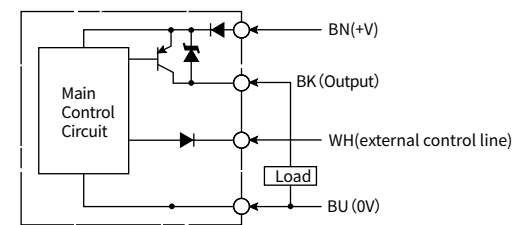


Single core fiber optic output optical transmitter.
Multi core fiber optic connector receiving end.

Wiring Diagram



NPN Output



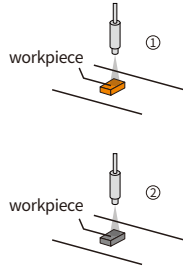
PNP Output

Teaching Setting

• Mode

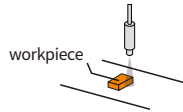
When there is no workpiece under the sensing head, press the SET button to display **SEt**.

The following situations cannot be used. Press the SET key against the background color again, and the **H** will flash for 2 seconds to complete the teaching.



• or Mode

Place the workpiece under the sensing head and press the SET button. The display **SEt** to **H** flashes for 1 second, indicating that the teaching is complete.



Settings

• Mode Settings

Long press the M key for more than 3 seconds to enter, and press the left and right keys UP or DOWN to switch modes.

 : Color mode

 : Color+light intensity contrast mode

 : Light exposure comparison mode



Color Mode



Color+Light Intensity Contrast Mode



Light Exposure Comparison Mode

• Delay Mode

After the mode switch is completed, press the M key once to enter the delay mode setting. Press the left and right keys to switch the delay mode, with a range of 0.01~9.99s

t off : Delay off

off d : Delay output

on-d : Delay input

onof : Delay input output

SHot : One time output

Press the left and right keys to add or subtract red values
Value 10 corresponds to 0.01s, 9999 corresponds to 9.99s



Delay off



Delay output



Delay input



Delay input output



One time output

• External Control Function

Con on : External control on

Con off : External control off

External control is activated, and only when the white line indicates low battery level, can the output end have an output.



External control on



External control off

• Initialization Method

Press and hold SET and M simultaneously for more than three seconds, and **in t** will appear to complete initialization.



Initialization

• Lock Screen Settings

Simultaneously pressing M and DOWN for more than three seconds will result in **Loc** successfully locking the screen, and repeating the above steps will result in **UnL** successfully unlocking.



LOCK



UNLOCK

The following situations are not applicable

- Liquid
- Lighting
- Screen
- Dust Environment
- Fabric
- Too Many Mottled Colors
- Inconsistent Size
- Large Amplitude Jitter

Product specifications are subject to change without notice.

For more information or if you have any questions or suggestions about this product, please feel free to contact us.