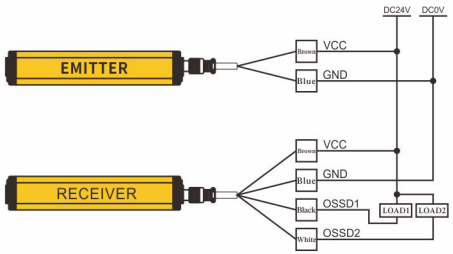
Safety cautions

- Please read the "Safety Precautions" carefully for proper usage before use.
- The precautions shown herein are intended to use the product safely and correctly to pr event harm or damage to the user and others.
- In order to indicate the degree of harm or damage, the precautions are divided into "war ning" and "cautions", both of which are important contents related to safety. Please com ply with them.

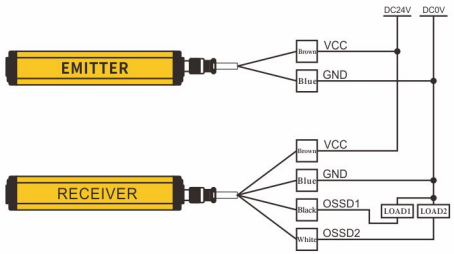
Warning	If used incorrectly, it is presumed that there is a hidden danger of user injury
cautions	If it is used incorrectly, it is speculated that there is a hidden danger that may lead to the injury of the user or the possibility of destroying the item

warning

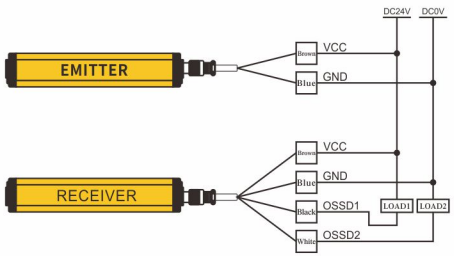
- It is ensured that wiring is connected under power off condition.
- Please confirm that the supply voltage variation does not exceed the rated range.
- Do not put the grating cable and high voltage, high power cable or AC power supply in the same slot (should be sep arated wiring), otherwise it is easy to cause electromagnetic interference and cause grating failure or damage.
- Do not use within 2 seconds after power on.
- Do not put the grating in direct contact with water, oil or other organic solvents. Dust, oil and water vapor should be avoided.
- Do not expose the grating to fast start or high frequency lighting equipment. Arc light generated by welding may interfere with the normal operation of the grating.
- If conditions permit, the grating should be insulated from the equipment as much as possible, and the shielding wire should be reliably grounded.



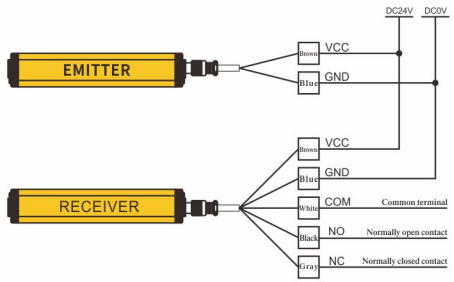
Double NPN wiring diagram



Double PNP wiring diagram

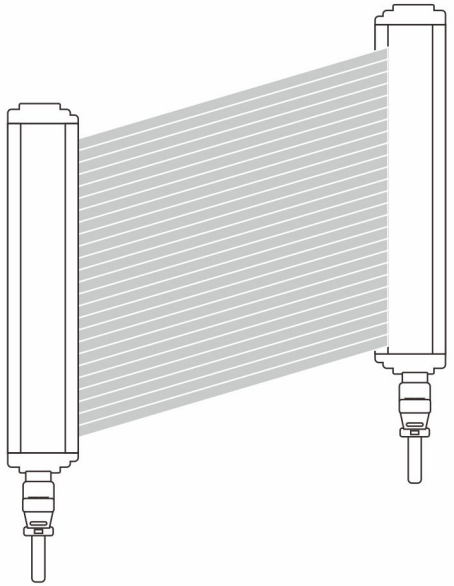


NPN and PNP wiring diagram



Wiring diagram of the relay normally closed and open

Instructions for use of grating sensor



Instruction manual

OPERATION INSTRUCTIONS

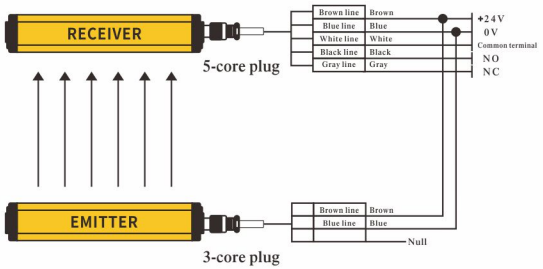
The company reserves the right to improve this product and the Manual. No further notice will be given for any improvement. Product appearance depends on goods; The Manual has been checked carefully. Please kindly understand us if there is any printing mistake or missing or content error. We will preserve the explanation right.

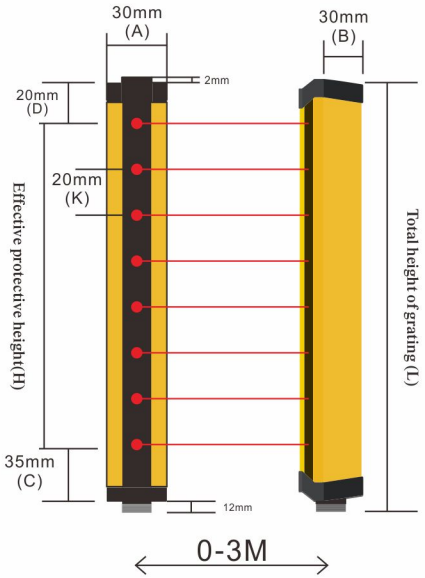
Status indication

- Working power supply: DC24V≥1000mA
- Operation conditions: When the light is on, both sides of the emitter and receiver are illuminated with red lights, and when the light is blocked, the receiver is illuminated with blue lights.
- Output state: When the light is on, the NPN signal line outputs OV, and the PNP signal line output 24V. The maximum driving current is less than or equal to 200mA. When the light is blocked,the NPN and PNP signal cables have no output and are suspended.

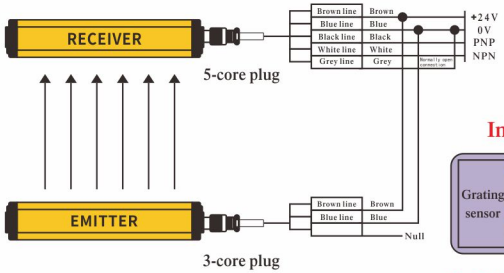
Wiring method

- Grating relay output wiring mode

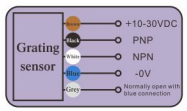




- Grating optical synchronous connection mode



Installation (correlation) Default distance: 0-3m

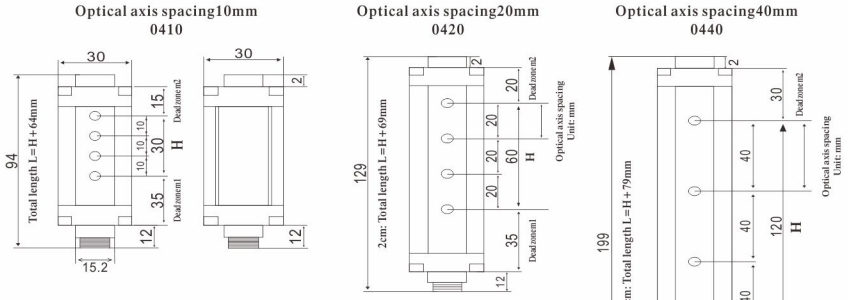


Total height(L)	209mm	Upper blind zone(D)	20mm
Effective height(H)	140mm	Lower blind zone(C)	35mm
Optical axis spacing(K)	20mm	Section width (A/B)	30mm/30mm

K=5-10-20-30-40-80MM Spacing NPN+PNP Double output

Output form	Output type	Grating state	Indicator lamp	Output state
NPN type	Normally closed	Light transmission	Green light on	Output 0VDC
		Get in the light	Red light on	No output
	Normally open	Light transmission	Green light on	No output
		Get in the light	Red light on	Output 0VDC
PNP type	Normally closed	Light transmission	Green light on	Output 24VDC
		Get in the light	Red light on	No output
	Normally open	Light transmission	Green light on	No output
		Get in the light	Red light on	Output 24VDC

• External mounting support



H Effective protection height = optical axis spacing X (number of optical axes -1)

Examples: 1040 Optical axis spacing 40mm 10 optical axes

H Effective protection height = 40x（10-1）=360mm

Total length=360+79=439mm

3220 Optical axis spacing 20mm 32 optical axes

H Effective protection height = 20x（32-1）=620mm

Total length=620+69=689mm

2410 Optical axis spacing 10mm 24 optical axes

H Effective protection height = 10x（24-1）=230mm

Total length =230+64=294m

