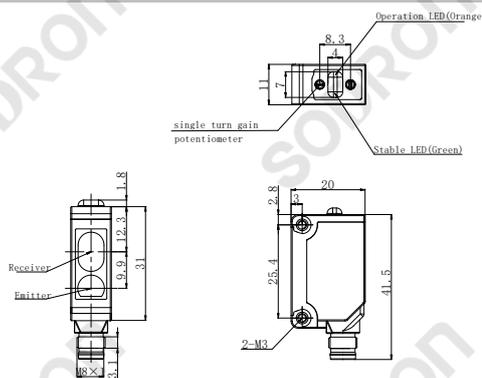




**Dimension**



**Model**

PF31V-B30BNSR-E1  
PF31V-B30BPSR-E1

**Technical parameters**

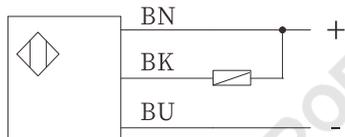
Sensing method	Adjustable Distance Reflective Type
Model	NPN PF31V-B30BNSR-E1 PNP PF31V-B30BPSR-E1
Sensing distance	30 ~ 300mm
Standard target	White paper100×100mm
Reflectivity characteristic	20% of set distance max
Output mode	Light ON/Dark ON adjustable
Light source	Red LED 620nm
Supply power	DC 12 ~ 24V ±10% impulse(P-P) < 10%
Residual Voltage	2V max(Load current≤100mA)
Curent consumption	< 25mA
Load Current	≤100mA
Circuit protection	Reverse connection protection, Short circuit protection
Response time	< 1ms
Distance setting	5-turnedendless adjuster
Detection Mode	Wiring Mode Switching: Select BGS/FGS Functions
Indicator light	Output: OrangeLED Stable: Green LED
Connection	Connector model (M8 Four-pin Male Plug)
Ambient temperature	Work: -25 ~ +55°C; Store: -30 ~ +70°C, (No dew condensation or icing allowde)
Ambient humidity	Work: 35 ~ 85%RH, Store: 35 ~ 95%RH, (No dew condensation)
Ambient illumination	Sunlight: 10,000Lx Lamplight:3,000Lx
Withstand Voltage	1000V AC, 50/60Hz,1min ,between current-carring parts and case
Insolution resistance	> 20MΩ (DC500V megger) between current-carring parts and case
Anti-vibration	10~55HZ double-amplitude 1.5mmX,Y,Z 2H
Anti-impact	500m/S <sup>2</sup> X, Y,Z , directions for 3 times
Protection degree	IEC IP65
Housing	PBT
Material	Lens PMMA

**Product Features**

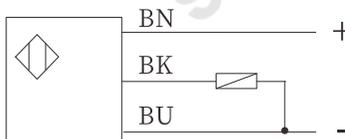
- With background suppression function,red light 620nm
- Adopts ASIC, featuring fast response and high frequency
- IEC IP65

**Connection**

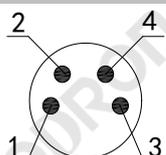
**NPN**



**PNP**



**Terminal Number and Function Table**



Terminal No.	Technical parameters
1	+ V
2	No connection
3	0V
4	output