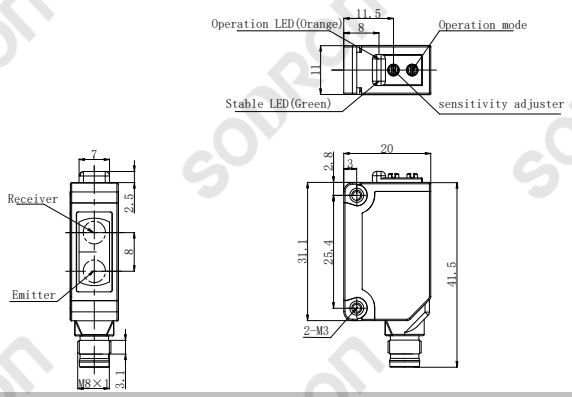
SODRON

Photoelectric Sensors

Dimension



Model

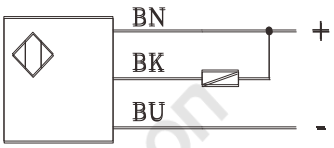
PF31V-D10BNSR-E1
PF31V-D10BPSR-E1

Product Features

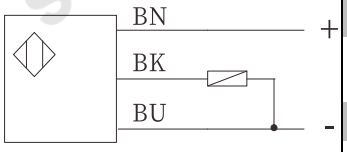
- With background suppression function, red LED 620nm
- Adopts ASIC, featuring fast response and high frequency
- IEC IP67

Connection

NPN



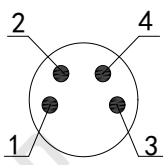
PNP



Technical parameters

Sensing method		Diffuse Reflective Type
Model	NPN	PF31V-D10BNSR-E1
	PNP	PF31V-D10BPSR-E1
Sensing distance		10cm (Adjustable Distance)
Standard target		100*100 Reflectivity 90% White Cardboard
Output mode		Light ON/Dark ON adjustable
Light souroe		Red LED 622nm
Supply power		DC 12～24V ±10% impulse(P-P) ＜10%
Residual Voltage		2V max(Load current≤100mA)
Curent consumption		＜20mA
Load Current		≤100mA
Circuit protection		Reverse connection protection，Short circuit protection
Response time		<1ms
Indicator light		Output：OrangeLED Stable：Green LED
Connection		Connector model（M8 Four-pin Male Plug）
Ambient temperature		Work：-25～+55℃；Store：-30～+70℃，(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		1000VAC，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/S² X，Y,Z，directions for 3 times
Protection degree		IEC IP67
Material	Housing	PBT
	Lens	PMMA

Terminal Number and Function Table



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