SODRON

Photoelectric Sensors

CE

Model

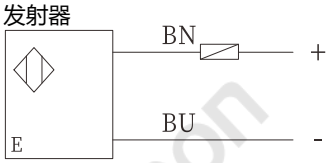
PF31V-T10BNS(E)-E1
PF31V-T10BPS(E)-E1

Product Features

- ●Through beam，850nm infrared light
- ●ASIC,Fast Response，High Frequency
- ● IEC IP67

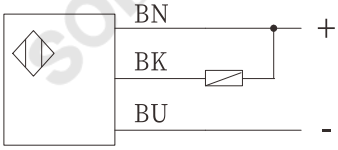
Connection

发射器

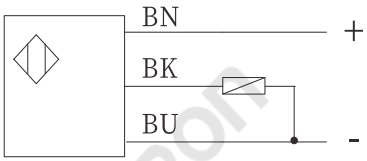


接收器

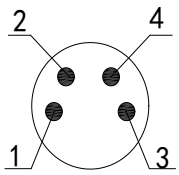
NPN



PNP

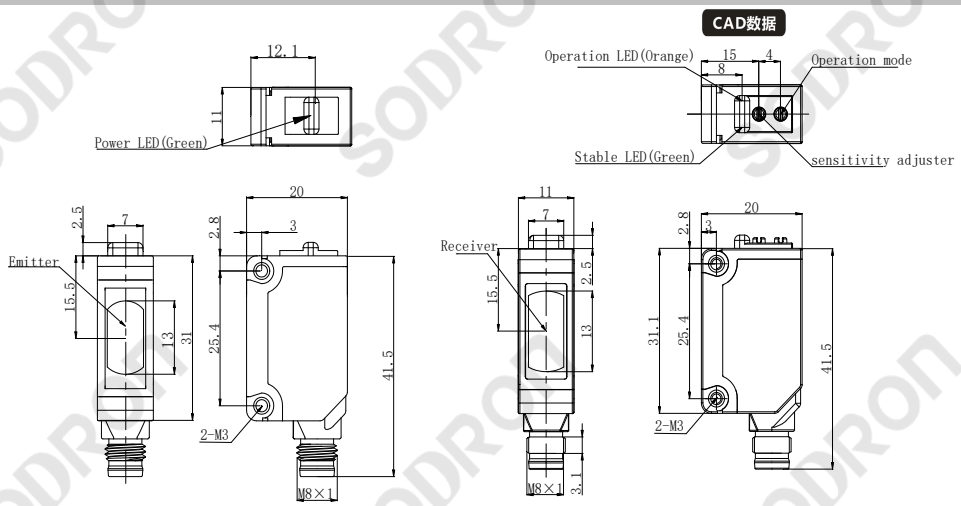


Terminal Number and Function Table



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

Dimension



Technical parameters

Sensing method		Through beam
Model	NPN	PF31V-T10BNS(E)-E1
	PNP	PF31V-T10BPS(E)-E1
Sensing distance		10cm
Standard target		> Φ15mm（Opaque object）
Output mode		Light ON/Dark ON
Light souroe		850nm infrared light
Supply power		DC 12～24V ±10%，impulse（P-P）＜10%
Directivity Angle		3~15°
Residual Voltage		＜2V (Load Current：≤100mA)
Curent consumption		<20mA
Load Current		≤100mA
Circuit protection		Power reverse indirection connection protection, short-circut protection
Response time		<1ms
Indicator light		Output LED:Orange LED、Power/stable: Green LED
Connection		connector type（M8 4pin male））
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		1000 VAC, 50/60 Hz, 1 min.
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