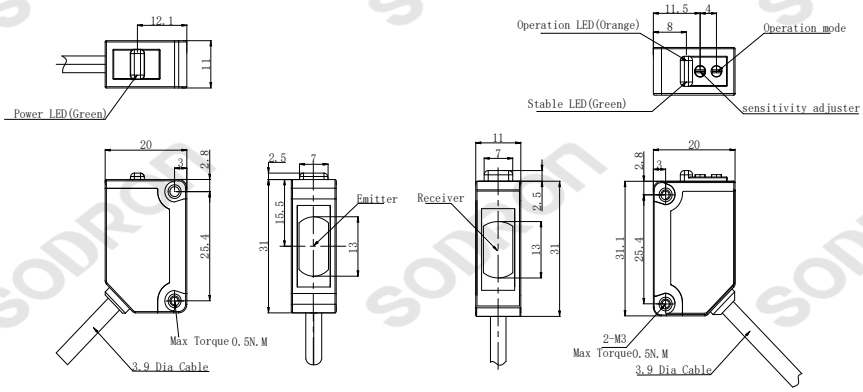
SODRON

Photoelectric Sensors

CE

Dimensions



Model

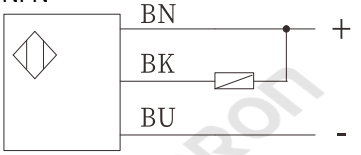
PF31V-T10BNSL(E)
PF31V-T10BPSL(E)

Product features

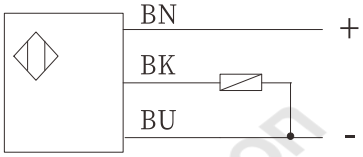
- Through beam, Laser 650nm
- ASIC,Fast response, High frequency
- IEC IP67

Connection

NPN



PNP



Technical parameters

Detection method		Through beam
Model	NPN	PF31V-T10BNSL(E)
	PNP	PF31V-T10BPSL(E)
Sensing distance		10m (Adjustable)
Standard target		> Φ10mm (Opaque object)
Output mode		Light-ON/Dark-ON (Adjustable)
Light source		Laser 650nm
Supply power		DC 12～24V ±10% , impulse (P-P) <10%
Residual voltage		<2V (Load Current: ≤100mA)
Current consumption		Transmitter < 8 mA; Receiver < 8 mA
Load current		≤100mA
Circuit protection		Power reverse indirection connection protection
Response time		<1ms
Indicator light		Output LED:Orange LED、Power/stable: Green LED
Connection		Cable 2m PVC
Ambient temperature		Work:-10～+55℃; Store: -30～+70℃ (No dew condensation or icing allowed)
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
Insulation resistance		>20MΩ (DC500V megger) between current-carrying parts and case
Anti-vibration		10～55Hz double-amplitude 1.5mmX,Y.Z 2h
Impact resistance		500 m/s² (X, Y, Z directions, 3 times)
Protection degree		IEC IP67
Material	Housing	PBT+ABS
	Lens	PMMA