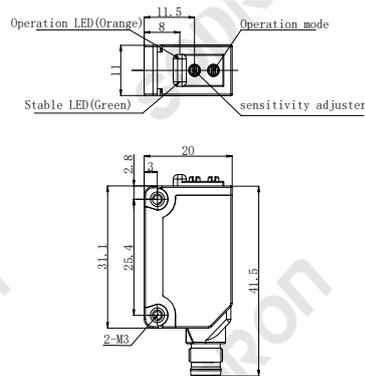




Dimension



Model | **Technical parameters**

PF31V-P03BNSR-E1 PF31V-P03BPSR-E1	Sensing method	Retro-reflective
	Model	NPN: PF31V-P03BNSR-E1 PNP: PF31V-P03BPSR-E1
Product Features • Retro-reflective Sensor with M.S.R. • ASIC, Fast Response, High Frequency • IEC IP67	Sensing distance	3m (with a 40 x 60 mm reflector)
	Output mode	Light ON/Dark ON (Adjustable)
	Standard target	> Φ75mm (Opaque object)
	Light source	620nm Red LED
	Supply power	DC 12~24V ±10%, impulse (P-P) < 10%
	Directivity Angle	2~10°
	Residual Voltage	< 2V (Load Current: ≤100mA)
	Current consumption	< 12mA
	Load Current	≤100mA
	Circuit protection	Power reverse indication connection protection, short-circuit protection
Connection NPN PNP 	Response time	< 1ms
	Indicator light	Output LED: Orange LED, Power/stable: Green LED
	Connection	connector type (M8 4pin male)
	Ambient temperature	Work: -25 ~ +55°C; Store: -30 ~ +70°C (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 1.5mm X, Y, Z 2H
	Anti-impact	500m/S ² X, Y, Z, directions for 3 times
Terminal Number and Function Table	Protection degree	IEC IP67
	Material	Housing: PBT Lens: PMMA

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

Spot size

